



Cisco UCS Deployment Guide for Oracle PeopleSoft



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Introduction to Cisco Unified Computing System

The Cisco Unified Computing System™ (Cisco UCS™) is a set of data center components that includes blade and rack servers, adapters, fabric interconnects, and extenders unified under a common embedded management system. This model results in far fewer system components and much better manageability, operation efficiency, and flexibility than comparable data center platforms.

Main Differentiating Technologies

The main differentiating technologies described here are what make Cisco UCS unique and give it advantages over competing offerings. The technologies presented here are high level, and the discussions do not include the technologies (such as Fibre Channel over Ethernet [FCoE]) that support these high-level elements.

Unified Fabric

Unified fabric can dramatically reduce the number of network adapters, blade-server switches, cables, and management touch points by passing all network traffic to parent fabric interconnects, where it can be prioritized, processed, and managed centrally. This approach improves performance, agility, and efficiency and dramatically reduces the number of devices that need to be powered, cooled, secured, and managed.

Cisco Extended Memory Technology

Significantly enhancing the available memory capacity of some Cisco UCS servers, Cisco® Extended Memory Technology helps increase performance for demanding virtualization and large-data-set workloads. Data centers can now deploy very high virtual machine densities on individual servers as well as provide resident memory capacity for data bases that need only two processors but can dramatically benefit from more memory. The high-memory dual in-line memory module (DIMM) slot count also lets users more cost-effectively scale this capacity using smaller, less costly DIMMs.

Virtual Machine Fabric Extender Technology

With Virtual Machine Fabric Extender Technology (VM-FEX), virtual machines have virtual links that allow them to be managed in the same way as physical links. Virtual links can be centrally configured and managed without the complexity of traditional systems that interpose multiple switching layers in virtualized environments. I/O configurations and network profiles move along with virtual machines, helping increase security and efficiency while reducing complexity. VM-FEX helps improve performance and reduce network interface card (NIC) infrastructure.

Dynamic Provisioning with Service Profiles

Cisco UCS Manager delivers service profiles, which contain abstracted server-state information, creating an environment in which everything unique about a server is stored in the fabric, and the physical server is simply another resource to be assigned. Cisco UCS Manager implements role- and policy-based management focused on service profiles and templates. These mechanisms fully provision one or many servers and their network connectivity in minutes, rather than hours or days.

Cisco UCS Manager

Cisco UCS Manager is a centralized management application that is embedded on the fabric switch. Cisco UCS Manager controls all Cisco UCS elements within a single redundant management domain. These elements include all aspects of system configuration and operation, eliminating the need to use multiple, separate element managers for each system component. Massive reduction in the number of management modules and consoles and in the proliferation of agents resident on all the hardware (which must be separately managed and updated)

are important deliverables of Cisco UCS. Cisco UCS Manager, using role-based access and visibility, helps enable cross-function communication efficiency, promoting collaboration between data center roles for increased productivity.

Cisco UCS Manager can be accessed through an intuitive GUI, a command-line interface (CLI), or the comprehensive open XML API. It manages the physical assets of the server and storage and LAN connectivity, and it is designed to simplify the management of virtual network connections through integration with several major hypervisor vendors. It provides IT departments with the flexibility to allow people to manage the system as a whole, or to assign specific management functions to individuals based on their roles as managers of server, storage, or network hardware assets. It simplifies operations by automatically discovering all the components available on the system and enabling a stateless model for resource use.

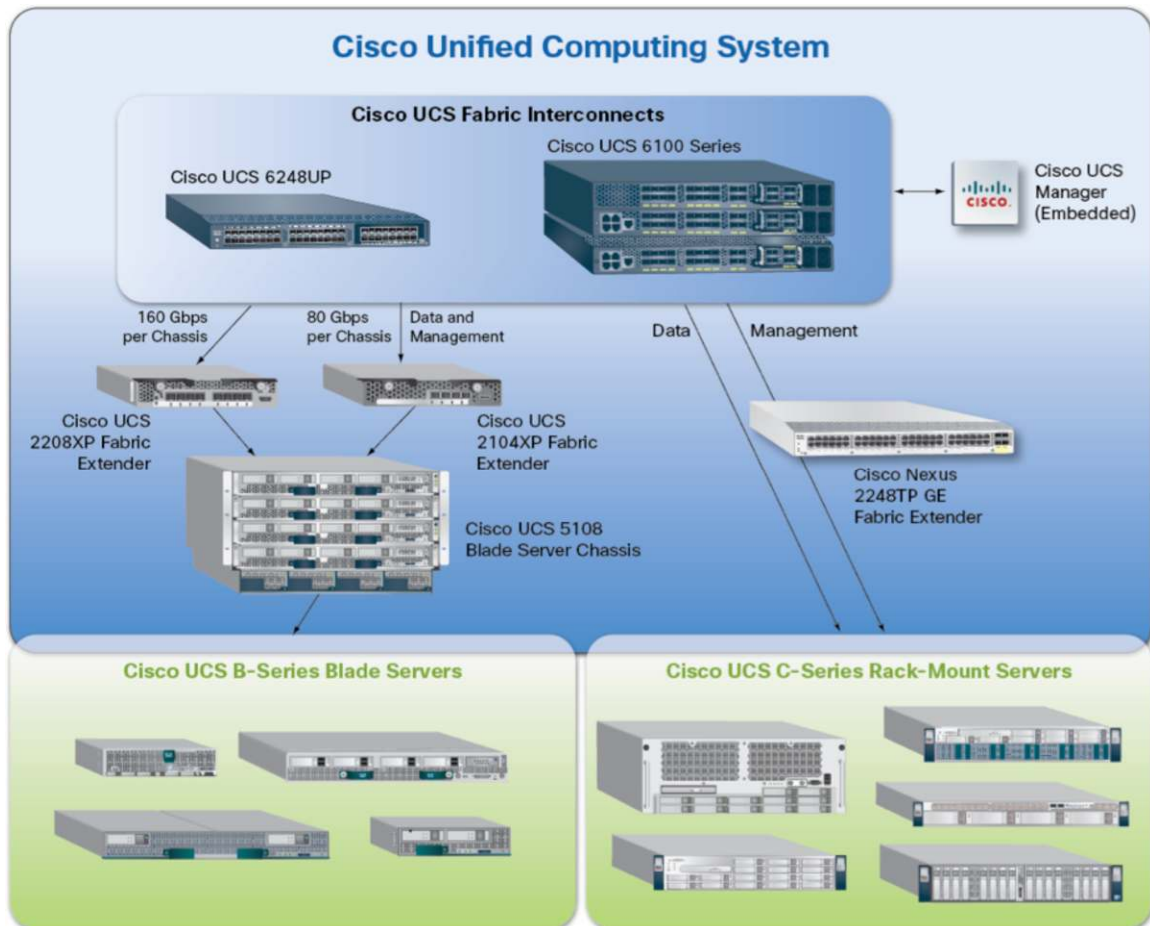
The elements managed by Cisco UCS Manager include:

- Cisco Integrated Management Controller (IMC) firmware
- RAID controller firmware and settings
- BIOS firmware and settings, including server universal user ID (UUID) and boot order
- Converged network adapter (can) firmware and settings, including MAC and worldwide name (WWN) addresses and SAN boot settings
- Virtual port groups used by virtual machines, using Cisco Data Center VM-FEX technology
- Interconnect configuration, including uplink and downlink definitions, MAC and WWN address pinning, VLANs, VSANs, quality of service (QoS), bandwidth allocations, Cisco Data Center VM-FEX settings, and EtherChannels to upstream LAN switches

Cisco Unified Computing System Components

Figure 1 shows the Cisco UCS components.

Figure 1. Cisco UCS Components



Cisco UCS is designed from the start to be programmable and self-integrating. A server's entire hardware stack, ranging from server firmware and settings to network profiles, is configured through model-based management. With Cisco virtual interface cards (VICs), even the number and type of I/O interfaces is programmed dynamically, making every server ready to power any workload at any time.

With model-based management, administrators manipulate a model of a desired system configuration and associate a model's service profile with hardware resources, and the system configures itself to match the model. This automation speeds provisioning and workload migration with accurate and rapid scalability. The result is increased IT staff productivity, improved compliance, and reduced risk of failures due to inconsistent configurations.

Cisco Fabric Extender Technology (FEX Technology) reduces the number of system components that need to be purchased, configured, managed, and maintained by condensing three network layers into one. It eliminates both blade server and hypervisor-based switches by connecting fabric interconnect ports directly to individual blade

servers and virtual machines. Virtual networks are now managed exactly as physical networks are, but with massive scalability. This approach represents a radical simplification compared to traditional systems, reducing capital and operating costs while increasing business agility, simplifying and accelerating deployment, and improving performance.

Cisco UCS Fabric Interconnects

Cisco UCS fabric interconnects create a unified network fabric throughout Cisco UCS. They provide uniform access to both networks and storage, eliminating the barriers to deployment of a fully virtualized environment based on a flexible, programmable pool of resources. Cisco fabric interconnects comprise a family of line-rate, low-latency, lossless 10 Gigabit Ethernet, IEEE Data Center Bridging (DCB), and FCoE interconnect switches. Based on the same switching technology as the Cisco Nexus® 5000 Series Switches, Cisco UCS 6100 Series Fabric Interconnects provide additional features and management capabilities that make them the central nervous system of Cisco UCS. The Cisco UCS Manager software runs inside the Cisco UCS fabric interconnects. The Cisco UCS 6100 Series Fabric Interconnects expand the Cisco UCS networking portfolio and offer higher capacity, higher port density, and lower power consumption. These interconnects provide the management and communication backbone for the Cisco UCS B-Series Blade Servers and Cisco UCS blade server chassis. All chassis and all blades that are attached to interconnects are part of a single, highly available management domain. By supporting unified fabric, the Cisco UCS 6100 Series provides the flexibility to support LAN and SAN connectivity for all blades within its domain at configuration time. Typically deployed in redundant pairs, Cisco UCS fabric interconnects provide uniform access to both networks and storage, facilitating a fully virtualized environment.

The Cisco UCS fabric interconnect portfolio currently consists of the Cisco 6100 and 6200 Series Fabric Interconnects.

Cisco UCS 6248UP 48-Port Fabric Interconnect

The Cisco UCS 6248UP 48-Port Fabric Interconnect is a one-rack-unit (1RU), 10 Gigabit Ethernet, IEEE DCB, and FCoE interconnect providing more than 1 terabit per second (Tbps) throughput with low latency. It has 32 fixed ports of Fibre Channel, 10 Gigabit Ethernet, IEEE DCB, and FCoE Enhanced Small Form-Factor Pluggable (SFP+) ports.

One expansion module slot can provide up to 16 additional Fibre Channel, 10 Gigabit Ethernet, IEEE DCB, and FCoE SFP+ ports.

Cisco UCS U6120XP 20-Port Fabric Interconnect

The Cisco UCS U6120XP 20-Port Fabric Interconnect is a 1RU, 10 Gigabit Ethernet, IEEE DCB, and FCoE interconnect providing more than 500 Gbps throughput with very low latency. It has 20 fixed 10 Gigabit Ethernet, IEEE DCB, and FCoE SFP+ ports.

One expansion module slot can be configured to support up to six additional 10 Gigabit Ethernet, IEEE DCB, and FCoE SFP+ ports.

Cisco UCS U6140XP 40-Port Fabric Interconnect

The Cisco UCS U6140XP 40-Port Fabric Interconnect is a 2RU, 10 Gigabit Ethernet, IEEE DCB, and FCoE interconnect built to provide 1.04 Tbps throughput with very low latency. It has 40 fixed 10 Gigabit Ethernet, IEEE DCB, and FCoE SFP+ ports.

Two expansion module slots can be configured to support up to 12 additional 10 Gigabit Ethernet, IEEE DCB, and FCoE SFP+ ports.

Cisco UCS 2100 and 2200 Series Fabric Extenders

The Cisco UCS 2100 and 2200 Series Fabric Extenders multiplex and forward all traffic from blade servers in a chassis to a parent Cisco UCS fabric interconnect over 10-Gbps unified fabric links. All traffic, even traffic between blades on the same chassis or virtual machines on the same blade, is forwarded to the parent interconnect, where network profiles are managed efficiently and effectively by the fabric interconnect. At the core of the Cisco UCS fabric extender are application-specific integrated circuit (ASIC) processors developed by Cisco that multiplex all traffic.

Up to two fabric extenders can be placed in a blade chassis.

- The Cisco UCS 2104XP Fabric Extender has eight 10GBASE-KR connections to the blade chassis midplane, with one connection per fabric extender for each of the chassis' eight half slots. This configuration gives each half-slot blade server access to each of two 10-Gbps unified fabric-based networks through SFP+ sockets for both throughput and redundancy. It has four ports connecting the fabric interconnect.
- The Cisco UCS 2208XP is first product in the Cisco UCS 2200 Series. It has eight 10 Gigabit Ethernet, FCoE-capable, and Enhances Small Form-Factor Pluggable (SFP+) ports that connect the blade chassis to the fabric interconnect. Each Cisco UCS 2208XP has thirty-two 10 Gigabit Ethernet ports connected through the midplane to each half-width slot in the chassis. Typically configured in pairs for redundancy, two fabric extenders provide up to 160 Gbps of I/O to the chassis.

Cisco UCS M81KR Virtual Interface Card

The Cisco UCS M81KR VIC is unique to the Cisco UCS blade system. This mezzanine adapter is designed around a custom ASIC that is specifically intended for VMware-based virtualized systems. It uses custom drivers for the virtualized host bus adapter (HBA) and the 10 Gigabit Ethernet NIC. As is the case with the other Cisco CNAs, the Cisco UCS M81KR VIC encapsulates Fibre Channel traffic within the 10 Gigabit Ethernet packets for delivery to the fabric extender and the fabric interconnect.

The Cisco UCS VIC is also unique in its ability to present up to 128 virtual PCI devices to the operating system on a given blade. Eight of those devices are used for management, leaving 120 virtual devices available for either storage or network use. The configurations can be changed as needed using Cisco UCS Manager. To the guest operating system, each virtualized device appears to be (from the viewpoint of the operating software that is running within VMware or other virtualized environments) a directly attached device. The adapter supports Cisco Data Center VM-FEX, which allows visibility all the way through to the virtual machine. This adapter is exclusive to Cisco and is not offered outside the Cisco UCS B-Series Blade Server product line.

Cisco UCS 5100 Series Blade Server Chassis

The Cisco UCS 5108 Blade Server Chassis is a 6RU blade chassis that accepts up to eight half-width Cisco UCS B-Series Blade Servers or up to four full-width Cisco UCS B-Series Blade Servers, or a combination of the two. The Cisco UCS 5108 Blade Server Chassis can accept four redundant power supplies with automatic load sharing and failover and two Cisco UCS 2100 or 2200 Series Fabric Extenders. The chassis is managed by Cisco UCS chassis management controllers, which are mounted in the Cisco UCS fabric extenders and work in conjunction with Cisco UCS Manager to control the chassis and its components.

Basing the I/O infrastructure on a 10-Gbps unified network fabric allows Cisco UCS to have a streamlined chassis with a simple yet comprehensive set of I/O options. The result is a chassis that has only five basic components:

- The physical chassis with passive midplane and active environmental monitoring circuitry
- Four power supply bays with power entry in the rear and hot-swappable power supply units accessible from the front panel
- Eight hot-swappable fan trays, each with two fans
- Two fabric extender slots accessible from the back panel
- Eight blade server slots accessible from the front panel

Cisco UCS B200 M2 Blade Servers

The Cisco UCS B200 M2 Blade Server is a half-slot, 2-socket blade server. The system uses two Intel Xeon p5600 series processors, up to 192 GB of double-data-rate-3 (DDR3) memory, two optional Small Form Factor (SFF) SAS/SSD disk drives, and a single CNA mezzanine slot for up to 20 Gbps of I/O throughput. The Cisco UCS B200 M2 blade server balances simplicity, performance, and density for production-level virtualization and other mainstream data center workloads.

Cisco UCS B250 M2 Extended Memory Blade Servers

The Cisco UCS B250 M2 Extended-Memory Blade Server is a full-slot, 2-socket blade server using Cisco Extended Memory Technology. The system supports two Intel Xeon 5600 series processors, up to 384 GB of DDR3 memory, two optional SFF SAS/SSD disk drives, and two CNA mezzanine slots for up to 40 Gbps of I/O throughput. The Cisco UCS B250 M2 blade server provides increased performance and capacity for demanding virtualization and large-data-set workloads, with greater memory capacity and throughput.

Cisco UCS B230 M2 Blade Servers

The Cisco UCS B230 M2 Blade Server is a full-slot, 2-socket blade server offering the performance and reliability of the Intel Xeon processor E7-2800 product family and up to 32 DIMM slots, which support up to 512 GB of memory. The Cisco UCS B230 M2 supports two SSD drives and one CNA mezzanine slot for up to 20 Gbps of I/O throughput. The Cisco UCS B230 M2 Blade Server platform delivers outstanding performance, memory, and I/O capacity to meet the diverse needs of virtualized environments with advanced reliability and exceptional scalability for the most demanding applications.

Cisco UCS B440 M2 High-Performance Blade Servers

The Cisco UCS B440 M2 High-Performance Blade Server is a full-slot, 2-socket blade server offering the performance and reliability of the Intel Xeon processor E7-4800 product family and up to 512 GB of memory. The Cisco UCS B440 M2 supports four SFF SAS/SSD drives and two CNA mezzanine slots for up to 40 Gbps of I/O throughput. The Cisco UCS B440 M2 blade server extends Cisco UCS by offering increased levels of performance, scalability, and reliability for mission-critical workloads.

EMC VNX Storage

EMC VNX Storage Platforms

The EMC VNX family of storage systems represents EMC's next generation of unified storage optimized for virtualized environments. The massive virtualization and consolidation trends for servers demands a new storage technology that is dynamic and scalable. EMC VNX offers several software and hardware features for optimally deployment of mission-critical enterprise applications.

An important distinction of this new generation of platforms is support for both block- and file-based external storage access over a variety of access protocols, including Fibre Channel, Small Computer System Interface over IP (iSCSI), FCoE, Network File System (NFS), and Common Internet File System (CIFS) network shared file access. Furthermore, data stored in one of these systems, whether accessed as block- or file-based storage objects, is managed uniformly through EMC Unisphere, a web-based interface window.

The new EMC VNX storage family now supports 2.5-inch SAS drives in a 2U disk array enclosure (DAE) that can hold up to 25 drives, making it one of the densest offerings in the industry. For example, compared to the older-generation technology, which could store 15 x 600 GB worth of data using 3.5-inch Fibre Channel drives in a 3U DAE, the new DAE has 2.5 times the capacity. The power efficiency of the new DAE also makes storage more cost-effective; the increased data in this much more compact footprint can be stored without increasing power consumption or cooling resources.

The data points discussed in this document were generated on an EMC VNX5500.

Additional information about EMC VNX is available at

<http://www.emc.com/collateral/hardware/data-sheets/h8520-vnx-family-ds.pdf>.

EMC FAST Cache Technology

In traditional storage arrays, the DRAM caches are too small to maintain the active data for long periods of time. Very few storage arrays have an option to nondisruptively expand the DRAM cache, even if they support DRAM cache expansion. EMC FAST Cache extends the cache available to customers by up to 2 TB using flash drives. EMC FAST Cache tracks the data activity rate at a 64-KB chunk size and copies chunks to the flash drives when activity reaches a certain threshold. After a data chunk is copied to EMC FAST Cache, subsequent accesses to that chunk of data are served at flash-memory latencies. Eventually, when the data becomes less active, the data chunks are evicted from EMC FAST Cache and replaced by newer active data. EMC FAST Cache uses a simple least recently used (LRU) mechanism to evict the data chunks.

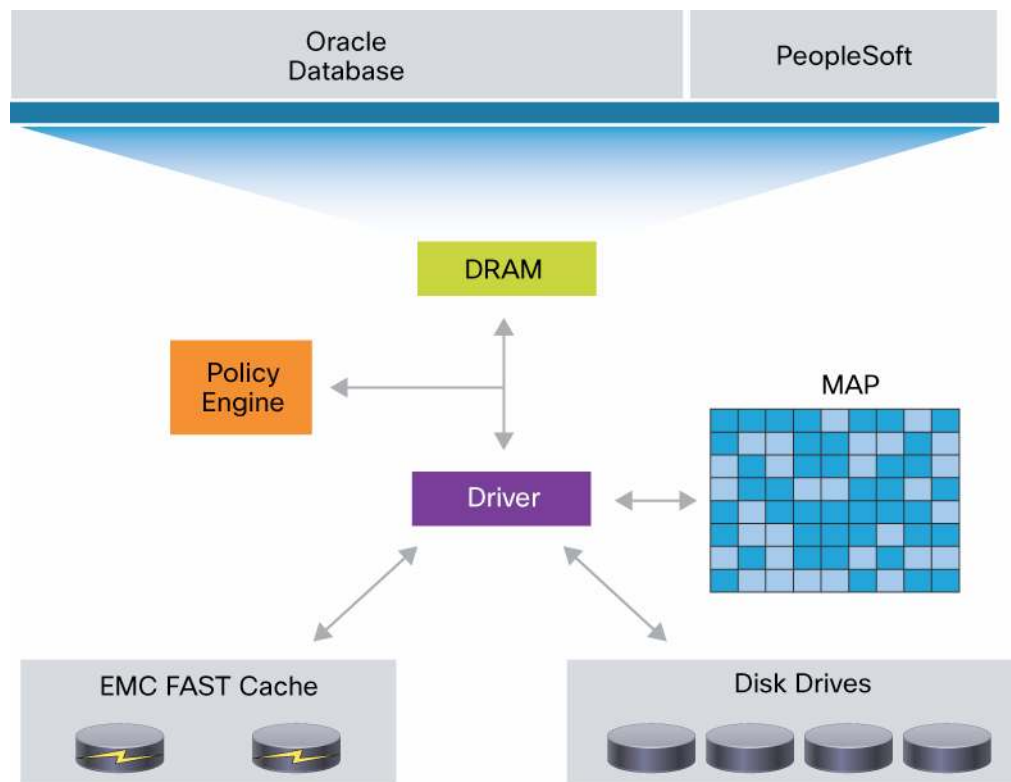
EMC FAST Cache is built on the premise that the overall applications' latencies can improve when the most frequently accessed data is maintained on a relatively smaller size, but faster, storage medium such as a flash drive. EMC FAST Cache identifies the most frequently accessed data that is temporal in nature and copies it to the flash drive automatically and nondisruptively. The data movement is completely transparent to applications, thereby making this technology application agnostic and management free. For example, EMC FAST Cache can be enabled or disabled on any storage pool simply by selecting or clearing the FAST Cache storage pool property in Advanced Settings.

EMC FAST Cache can be selectively enabled on a few or all storage pools within a storage array, depending on application performance requirements and service-level agreements (SLAs).

EMC FAST Cache offers these features:

- It can be configured in read-write mode, which allows the data to be maintained on a faster medium for longer periods, regardless of the application read-to-write mix and data rewrite rate.
- It is created on a persistent medium such as a flash drive, which can be accessed by both storage processors. In the event of a storage processor failure, the surviving storage processor can simply reload the cache rather than having to completely repopulate it by observing the data access patterns again, which is a differentiator.
- It is completely nondisruptive. To enable it, simply select the flash drives that are part of EMC FAST Cache; it does not require any array disruption or downtime.
- Since EMC FAST Cache is created on external flash drives, adding EMC FAST Cache does not consume any additional PCIe slots in the storage processor.

Figure 2.



Additional information about EMC Fast Cache is documented in the white paper titled EMC FAST Cache – A Detailed Review which is available at:

<http://www.emc.com/collateral/software/white-papers/h8046-clariion-celerra-unified-fast-cache-wp.pdf>

EMC FAST Virtual Pools

EMC FAST Virtual Pools (VP) is a policy-based autotiering solution for enterprise applications. EMC FAST VP operates at a granularity of 1 GB, referred to as a slice. The goal of EMC FAST VP is to efficiently use storage tiers to lower customers' total cost of ownership (TCO) by tiering less active slices of data to high-capacity drives, such as NL-SAS, and increasing performance by keeping more active slices of data on high-performance drives, such as flash drives. This storage occurs automatically and is transparent to the host environment. High locality of

data is important to achieve the benefits of EMC FAST VP. When EMC FAST VP relocates data, it moves the entire slice to the new storage tier. To successfully identify and move the correct slices, EMC FAST VP automatically collects and analyzes statistics prior to relocating the data. Customers can initiate the relocation of slices manually or automatically by using a configurable, automated scheduler that can be accessed from the EMC Unisphere management tool. The multi-tiered storage pool allows EMC FAST VP to fully utilize all three storage tiers: flash memory, SAS, and NL-SAS. The creation of a storage pool allows multiple RAID groups, using different storage tiers, to be aggregated into one object. The logical unit numbers (LUNs) created from the storage pool can be either thickly or thinly provisioned. These pool LUNs are no longer bound to a single storage tier. Instead, they can be spread across different storage tiers within the same storage pool. If you create a storage pool with one tier (flash memory, SAS, or NL-SAS), then EMC FAST VP has no effect on the performance of the system. To operate EMC FAST VP, you need at least two tiers.

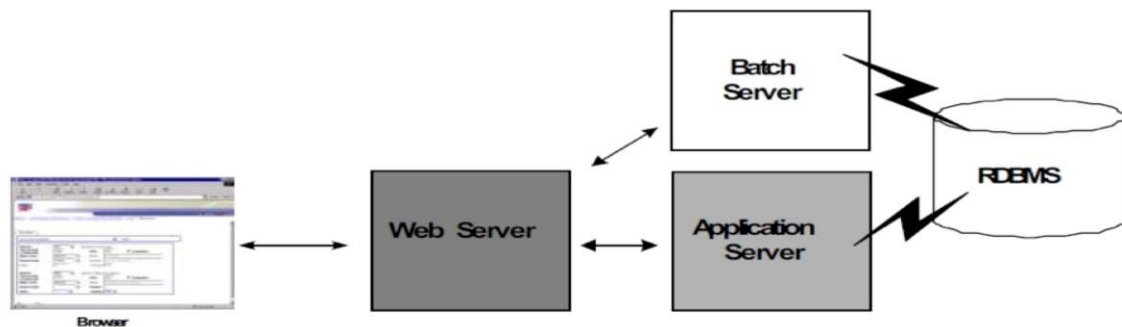
Additional information about EMC FAST VP for unified storage is documented in the white paper EMC FAST VP for Unified Storage System—A Detailed Review, which is available at <http://www.emc.com/collateral/software/white-papers/h8058-fast-vp-unified-storage-wp.pdf>

Oracle PeopleSoft Human Resources Management System Release 9.0

Oracle PeopleSoft Internet Architecture

Oracle PeopleSoft Internet Architecture (PIA) is a server-centric architecture (Figure 3).

Figure 3. High-Level Oracle PeopleSoft Architecture



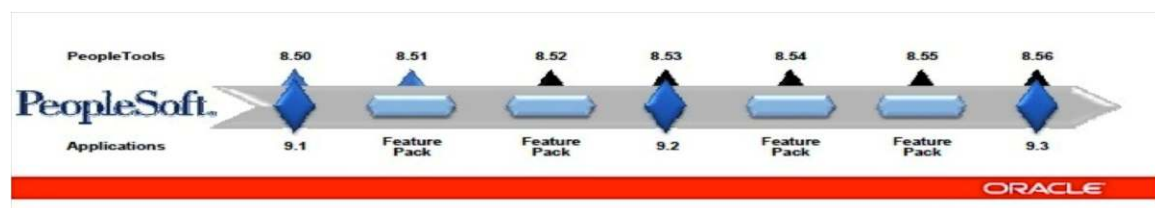
As Figure 3 shows, Oracle PIA is a standard three-tier architecture technology stack, with a web server, application server, and a database server. Although all three layers of Oracle PIA can be installed on a single server, this is usually done in a small production environment. Ideally, each Oracle PeopleSoft application module should be placed in its own three-tier technology stack. If you plan to implement Oracle PeopleSoft Human Resources Management System (HRMS) and Financials and Supply Chain Management (SCM), then you should have separate three-tier technology stacks: one for Oracle PeopleSoft HRMS and one Oracle PeopleSoft Financials and SCM. For more information, see PeopleTools 8.51: PeopleSoft Internet Architecture Administration. http://docs.oracle.com/cd/E18377_01/psft/acrobat/pt851tsvt-b0810.pdf

Oracle PIA introduces an entirely new architecture; hence, you should also consult the PIA Answer Book [https://support.oracle.com/CSP/ui/flash.html-tab=KBHome\(page=KBHome&id=\(\)\),\(page=KBNavigator&id=\(viewingMode=1143&bmDocTitle=PeopleTools 8.4 PIA Answer Book&bmDocSrc=KB&bmDocType=REFERENCE&bmDocID=702961.1&from=BOOKMARK\)\)](https://support.oracle.com/CSP/ui/flash.html-tab=KBHome(page=KBHome&id=()),(page=KBNavigator&id=(viewingMode=1143&bmDocTitle=PeopleTools%208.4%20PIA%20Answer%20Book&bmDocSrc=KB&bmDocType=REFERENCE&bmDocID=702961.1&from=BOOKMARK))) from Oracle to learn about late-breaking information from the production shops, tips from the field, and answers to customer questions about how to implement Oracle PIA.

Oracle PeopleTools 8.51

PeopleTools is the foundation on which PeopleSoft is built and run. PeopleTools should be first compatible with the Operating System Version for any Application of PeopleSoft to function smoothly.

Figure 4. Oracle PeopleTools Versions

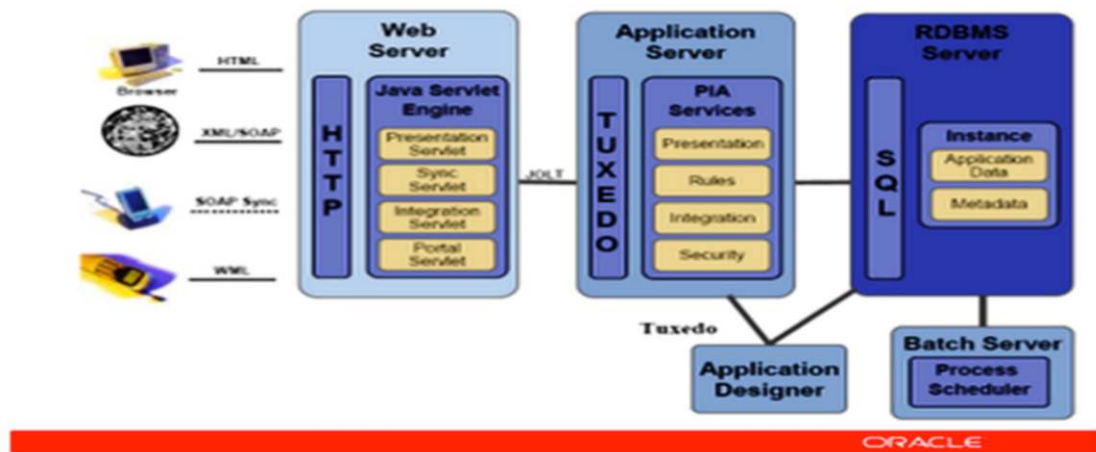


Oracle PeopleTools is a collection of development tools. The application engine is used as the runtime engine to run Oracle PeopleSoft applications on the application server. The Designer tool is used to build and customize

Oracle PeopleSoft applications. The Data Mover moves or loads data, and PeopleCode is the C++ code used in the business logic.

Figure 5 shows the individual components of Oracle PIA at a higher level.

Figure 5. Oracle PeopleSoft Architecture Overview



To build the right configuration for the implementation of Oracle PeopleSoft discussed in this document, you need to understand the role of each component in the three-tier technology stack.

External Web Server and Proxy Server

The external web server and proxy server are used when there are external users logging into the Oracle PeopleSoft application through the Internet and there is no enterprise portal.

SSL encryption is a critical resource-intensive activity that can be handled either by the firewall or by the reverse proxy server (RPS). It is always better to offload the SSL encryption activity. For SSL encryption and authentication, you must download digital certificates. Some vendors that provide these digital certificates are VeriSign, Baltimore Technologies, and Entrust. Oracle has also certified the use of the following HTTP servers as RPSs:

- With Oracle WebLogic, the certified HTTP servers are:
 - Microsoft Internet Information Services (IIS)
 - Sun Java System web server
 - Apache HTTP server
 - Oracle HTTP Server
- With IBM WebSphere, the certified HTTP server is IBM HTTP Server (IHS).

Internal Web Server

The Oracle PeopleSoft web application server is generally a Java 2 Platform, Enterprise Edition (J2EE) server. Previously, Oracle used its own Oracle Application Server, but with the integration of BEA WebLogic Oracle now recommends and certifies only the following two web application servers for use in the web layer:

- Oracle WebLogic
- IBM WebSphere

The J2EE web server is the connection to the external world (browsers) to service all its transaction requests. The J2EE server in turn connects to the application server for messaging using the application server Oracle Tuxedo and Oracle Jolt. The J2EE server is basically a collection of Oracle PeopleSoft Java servlets (Java programs that are run by the servlet engine) designed to handle a wide range of Oracle PeopleSoft transactions (Figure 6).

Figure 6. Web Server Java Servlets

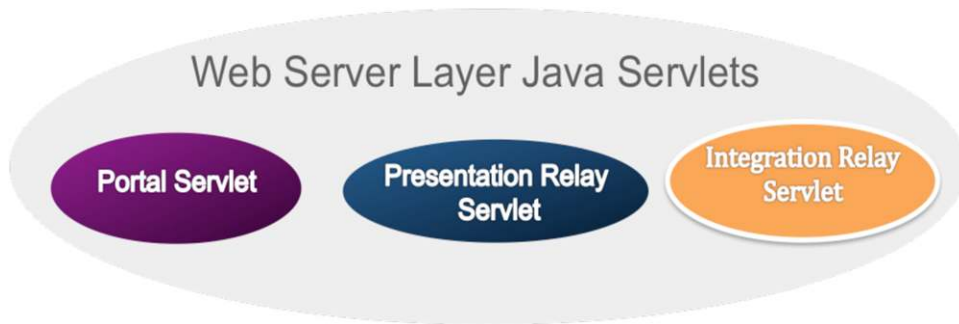


Table 1 defines the servlets shown in Figure 6.

Table 1. Web Server Layer Java Servlets

Portal servlet	This servlet handles all HTTP inbound and outbound traffic from users and clients. It also manages all aspects of the Oracle PeopleSoft portal such as search, content management, and homepage personalization.
Presentation relay servlet	This servlet relays the communication received from the inbound traffic to the query and component processors to run the transaction in Oracle Tuxedo.
Integration relay servlets	This servlet is for third-party integration activities. It basically receives and transacts XML requests for integration services.

Application Server Tier

The application server is the core of Oracle PIA. The application server consists of numerous Oracle PeopleSoft services and server processes that handle transaction requests. After a request is received from the web server through Oracle Jolt, the application server runs the business logic required and generates appropriate SQL queries, which are sent across the data base server using Oracle Tuxedo. The application server connects to the Oracle PeopleSoft database and handles almost all SQL-intensive interactions with the database server that are required to process a transaction request from a user (Figure 7).

Figure 7. Oracle PeopleSoft Application Server

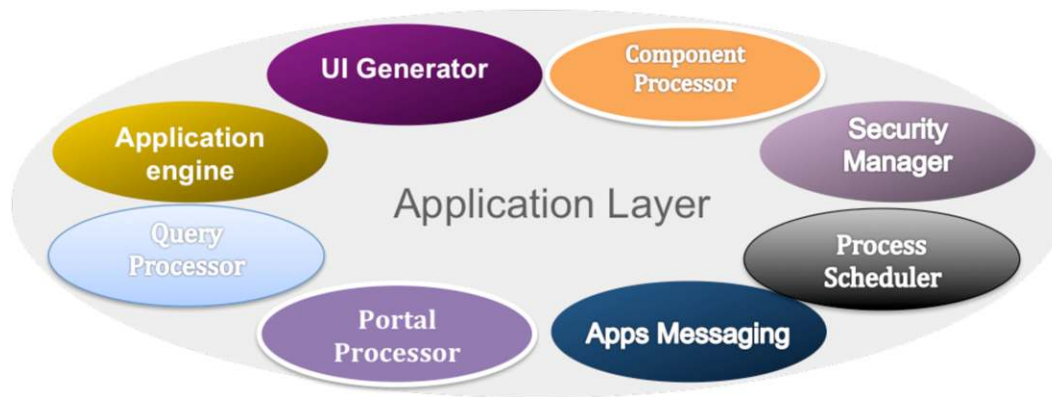


Table 2 lists the Oracle PeopleSoft application layer services.

Table 2. Table 2. Oracle PeopleSoft Application Layer Services

Application engine	The engine runs application engine processes. In Oracle PeopleSoft, this is a runtime engine.
Portal processor	The portal processor services all requests received from the portal servlet.
User interface generator	The UI generator generates the required outbound markup language format and the appropriate scripting based on the activated client action.
Application messaging processor	This processing engine manages the publication, subscription, and delivery of application messages.
Business interlink processor	This processor integrates the business interlink plug-ins required for third-party systems.
Component processor	This query execution engine runs core application business logic functions.
Process scheduler	The process scheduler is one of the most important components of the application layer. It is used to schedule batch processes and any reports scheduled by the user.
Query processor	The query processor runs the queries.
Security manager	The security manager authenticates inbound users either through the identity manager or using Lightweight Directory Access Protocol (LDAP) services.

Oracle Jolt is another companion product that coexists with the application services. It is Oracle Jolt that communicates with the web server, and without it the application layer cannot function. Oracle Tuxedo runs in a C++ environment, and Oracle Jolt extends Oracle Tuxedo's capabilities to the Internet. All servlets are configured to direct requests from the web server to a predefined Oracle Jolt port on the application server. These requests are HTTP requests to the page servlet running on the web server that translates the HTTP request into an Oracle Jolt request that is sent to a specified Oracle Jolt port. The application server runs the business logic requested by using Oracle Tuxedo, which in turn runs the appropriate SQL queries against the database.

Database Server Tier

The database server is the repository that hosts Oracle PeopleSoft metadata and user tables and indexes. The database also has temporary tablespaces for query processing such as sorting, merging, and hashing activities. It also hosts the redo and undo spaces. The servers that host Oracle PeopleSoft databases need sufficient processing, storage, and networking resources to handle the database requests, store the data and transaction logs, and communicate freely with the clients of this data.

Batch Server

The batch server hosts the Oracle PeopleSoft process schedulers. Batch servers are dedicated to the processing of batch jobs. Usually the batch server is included in the application server, but large production shops separate batch processes from the database tier to spread out the workload and reduce the computing pressure on the application layer.

Oracle PeopleSoft HRMS 9.0 Components

Before beginning an implementation of Oracle PeopleSoft on Cisco UCS servers, you must compile and document all relevant data that would reduce time and cost. You must verify that you have all the latest patches available, certified combinations of Oracle PeopleSoft and OS versions, and OS patch and kernel levels required and identify the maintenance schedule for upcoming Oracle PeopleTools and application releases of Oracle PeopleSoft HRMS. Maintenance schedules are posted on My Oracle Support. The Enterprise PeopleTools 8.51 Hardware and Software Requirements guide

http://docs.oracle.com/cd/E18373_01/psft/acrobat/PeopleTools_8.51_HardwareSoftwareGuide.pdf provides an overview of Oracle PeopleSoft architecture as well as general information about the hardware and software required for a successful installation.

Hardware Components

Table 3 lists the hardware components used to deploy Oracle PeopleSoft for benchmarking on the Cisco UCS platform.

Table 3. Hardware Components

Technical Layer	Cisco UCS Server	CPU Type	Memory	Interface
External web server	Cisco UCS B200 M2	2 Intel Xeon E5620 4C/8T	12 GB	<ul style="list-style-type: none">• Cisco UCS M81KR• EMC PowerPath
Web server	Cisco UCS B200 M2	2 Intel Xeon E5620 4C/8T	96 GB	<ul style="list-style-type: none">• Cisco UCS M81KR• EMC PowerPath
Application server	Cisco UCS B200 M2	2 Intel Xeon X5675 6C/12T	96 GB	<ul style="list-style-type: none">• Cisco UCS M81KR• EMC PowerPath
Database server	Cisco UCS B250 M2	2 Intel Xeon X5680 6C/12T	394 GB	<ul style="list-style-type: none">• Cisco UCS M81KR• EMC PowerPath
Fabric interconnects	Cisco UCS 6120XP			
CNA switches	Cisco Nexus 5548P or 5548UP Switch			
Cisco UCS blade chassis	Cisco UCS 5100 Series			<ul style="list-style-type: none">• 2x I/O modules• 4x power supplies

Before choosing the Cisco UCS servers, you should check the interoperability matrices for Cisco UCS components and configurations that have been tested and validated by Cisco, by Cisco partners, or both.

Cisco provides the document Hardware and Software Interoperability Matrix, http://www.cisco.com/en/US/products/ps10477/prod_technical_reference_list.htm which is updated on a regular basis. The current version of this document applies to the Cisco UCS B-Series Blade Servers in Cisco UCS Release 1.4(3).

Hardware and Software Interoperability Matrix for Cisco UCS

Tables 4 through 8 show the interoperability matrixes used to check the configurations used for this document.

Table 4. Operating System Interoperability Matrix

Cisco UCS Blade Server	Vendor	Operating System Version
M1 and M2 for B200, B250, B230, and B440	Red Hat	Enterprise Linux 5.6 64bit
M1 and M2 for B200, B250, B230, and B440	Red Hat	Enterprise Linux 6.0 64bit
M1 and M2 for B200, B250, B230, and B440	Red Hat	Enterprise Linux 6.1 64bit

Table 5. Converged Network Adapter Interoperability Matrix

Cisco UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code or BIOS
M1 and M2 for B200, B250, B230, and B440	Cisco	UCS M81KR Virtual Interface Card	Enterprise Linux 5.6 64bit	1.4.0.145 or 1.4.1.5a (NIC)	1.4(3)	1.4(3)
M1 and M2 for B200, B250, B230, and B440	Cisco	UCS M81KR Virtual Interface Card	Enterprise Linux 6.0 64bit	1.4.0.145 or 1.4.1.5a (NIC)	1.4(3)	1.4(3)
M1 and M2 for B200, B250, B230, and B440	Cisco	UCS M81KR Virtual Interface Card	Enterprise Linux 6.1 64bit	1.4.0.145 or 2.1.1.13 (NIC)	1.4(3)	1.4(3)

Table 6. Network Interface Card Interoperability Matrix

Cisco UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code or BIOS
M1 and M2 for B200, B250, B230, and B440	Cisco	UCS M51KR-B 10 Gigabit Ethernet Adapter	Enterprise Linux 5.6 64-bit	1.52.53-4	5.2.7.12.1	5.2.12
M1 and M2 for B200, B250, B230, and B440	Cisco	UCS M51KR-B 10 Gigabit Ethernet Adapter	Enterprise Linux 6.0 64-bit	1.60.51	5.2.7.12.1	5.2.12
M1 and M2 for B200, B250, B230, and B440	Cisco	UCS M51KR-B 10 Gigabit Ethernet Adapter	Enterprise Linux 6.1 64-bit	1.62.00-6	5.2.7.12.1	5.2.12

Table 7. RAID Controller on Motherboard or PCIe Adapter Interoperability Matrix

Cisco UCS Blade Server	Vendor	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code or BIOS
B200 and B250 M1 and M2	Cisco	LSI Logic SAS1064E PCI-Express Fusion-MPT	Enterprise Linux 5.6 64-bit	3.0.4.15rh	01.28.03.00	06.28.00.00

Table 8. Fibre Connectivity Switch Interoperability Matrix

UCS Fabric Interconnect	Vendor	Fibre Connectivity Switch Model	Switch Firmware
UCS 6120XP 20-Port and 6140XP 40-Port Fabric Interconnect	Cisco	Nexus 5000	4.1(3)N2(1), 4.1(3)N2(1a)

Software Components

All the required softwares was downloaded from the Oracle e-Delivery site: <http://edelivery.oracle.com>. Two important documents that need to be kept handy are Operating System, RDBMS and Additional Component Patches Required for Installation [https://support.oracle.com/CSP/ui/flash.html - tab=KBHome\(page=KBHome&id=\(\)\),\(page=KBNavigator&id=\(viewingMode=1143&bmDocTitle=PeopleTools Certifications - Suggested Fixes for PT 8.51&bmDocDsrc=KB&bmDocType=REFERENCE&bmDocID=749196.1&from=BOOK&ht=PeopleTools Certification FAQs—Database Platforms—Oracle. https://support.oracle.com/CSP/ui/flash.html](https://support.oracle.com/CSP/ui/flash.html?tab=KBHome(page=KBHome&id=()),(page=KBNavigator&id=(viewingMode=1143&bmDocTitle=PeopleTools%20Certifications%20-%20Suggested%20Fixes%20for%20PT%208.51&bmDocDsrc=KB&bmDocType=REFERENCE&bmDocID=749196.1&from=BOOK&ht=PeopleTools%20Certification%20FAQs%20-%20Database%20Platforms%20-%20Oracle&https://support.oracle.com/CSP/ui/flash.html) -

[tab=KBHome\(page=KBHome&id=\(\)\),\(page=KBNavigator&id=\(viewingMode=1143&bmDocTitle=PeopleTools Certification FAQs - Database Platforms -](#)

[Oracle&bmDocDsrc=KB&bmDocType=REFERENCE&bmDocID=756280.1&from=ht](#) Both reference documents can be found in My Oracle Support. <https://support.oracle.com/CSP/ui/flash.html> Table 9 lists the software components that were downloaded from the Oracle e-Delivery site to deploy Oracle PeopleSoft on the Cisco UCS platform.

Table 9. Software Components

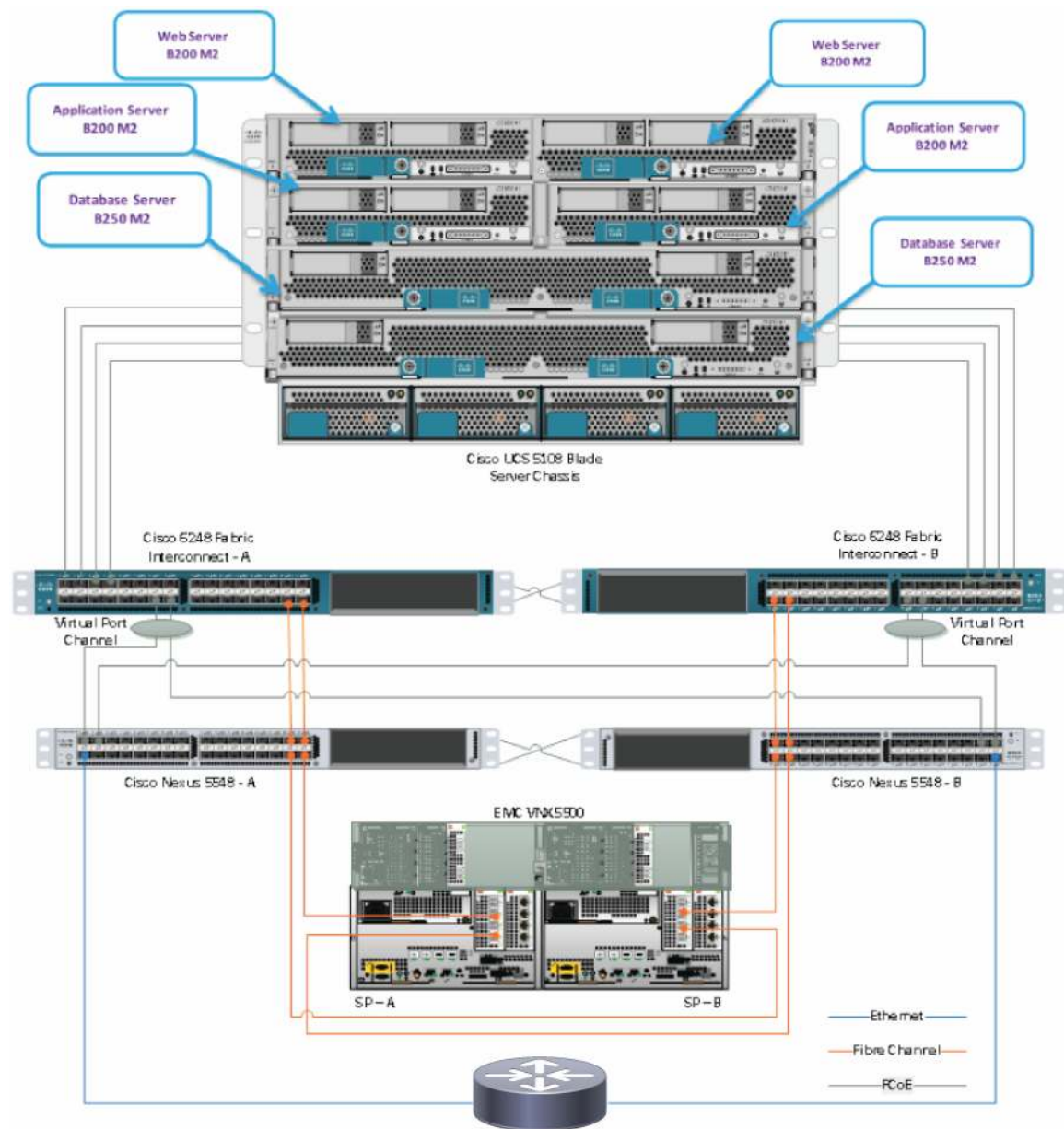
Software Component	Version
Operating system	Linux X86-64 Red Hat Enterprise Linux 5
Oracle PeopleTools	Oracle PeopleTools 8.51.11
Oracle PeopleSoft HRMS9.1	Oracle PeopleSoft HRMS 9.1 with Feature Pack December 2010
Database server	Oracle 11.2.0.2.0
Database client	Oracle 11.2.0.2.0
Oracle WebLogic	Oracle WebLogic 10.3.4.0.0
Oracle Tuxedo 10.3.0.0.0	Oracle Tuxedo 10gR3 RP031 64-bit
Micro Focus Server Express 5.1 for COBOL	Micro Focus Server Express 5.1 64-Bit with Wrap Pack 4
Java Runtime Environment (JRE)	Java Version 1.6.0_20 Java SE Runtime Environment (Build 1.6.0_20-b02) Java HotSpot 64-Bit Server Virtual Machine (Build 16.3-b01, mixed mode)

Please check the latest hardware and software guides for the required release of Oracle PeopleTools before downloading and installing Oracle PeopleSoft.

Cisco UCS Reference Architecture for Oracle PeopleSoft: No Single Point of Failure

The reference architecture shown in Figure 8 is Cisco's recommended architecture for running Oracle PeopleSoft on Cisco UCS in a production environment. This high-level diagram shows the number of web, application, and database servers typically used in a three-tier technology stack required to avoid introduction of a single point of failure (SPoF).

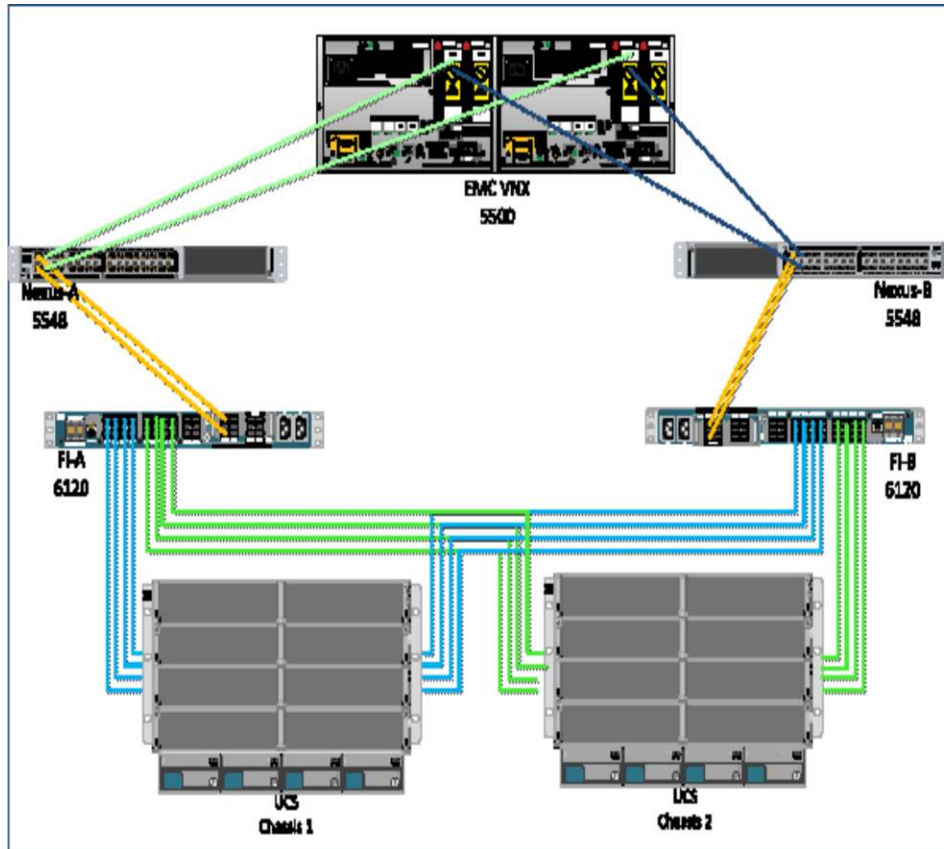
Figure 8. Cisco UCS Reference Architecture for Oracle PeopleSoft



Cisco UCS and Oracle PeopleSoft Deployment Layout

Figure 9 shows the Cisco UCS layout used in the Oracle PeopleSoft benchmark activity. It shows the eight I/O modules pulled out of the chassis and plugged into the Cisco UCS 6120XP Fabric Interconnect. The connections of the Cisco Nexus 5000 Series Switches to the fabric interconnects and to the EMC VNX 5500 are also shown.

Figure 9. Cisco UCS and Oracle PeopleSoft Deployment Layout



Cisco UCS Configuration

This section details the Cisco UCS configuration that was performed as part of the infrastructure buildout for deployment of Oracle PeopleSoft HRMS 9.0 on RHEL 5.6 and EMC VNX SAN storage. The racking, power, and installation of the chassis are beyond the scope of this document (they are described in the installation guide at http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/chassis/install/ucs5108_install.html) More details about each step can be found in the following documents:

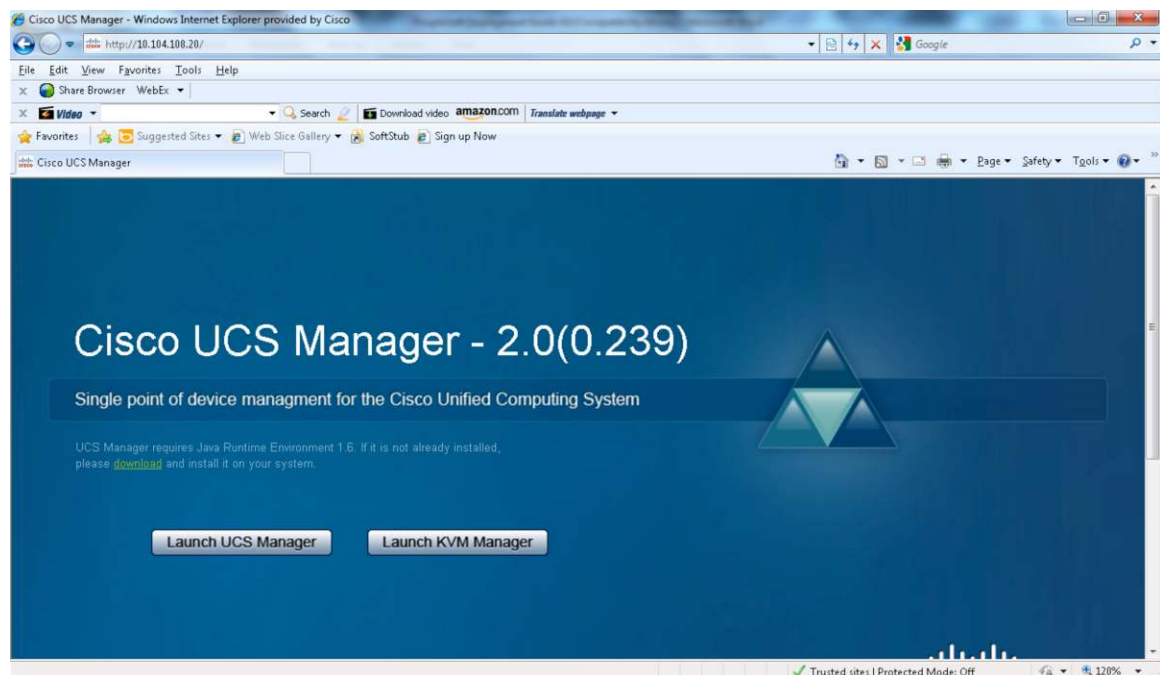
Cisco Unified Computing System CLI Configuration guide

http://www.cisco.com/en/US/docs/unified_computing/ucs/sw/cli/config/guide/1.4/b_UCSM_CLI_Configuration_Guide_1_4.html

Cisco UCS Manager GUI configuration guide

http://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/1.4/b_UCSM_GUI_Configuration_Guide_1_4.html

Configuring Cisco USC Servers



Create Pools

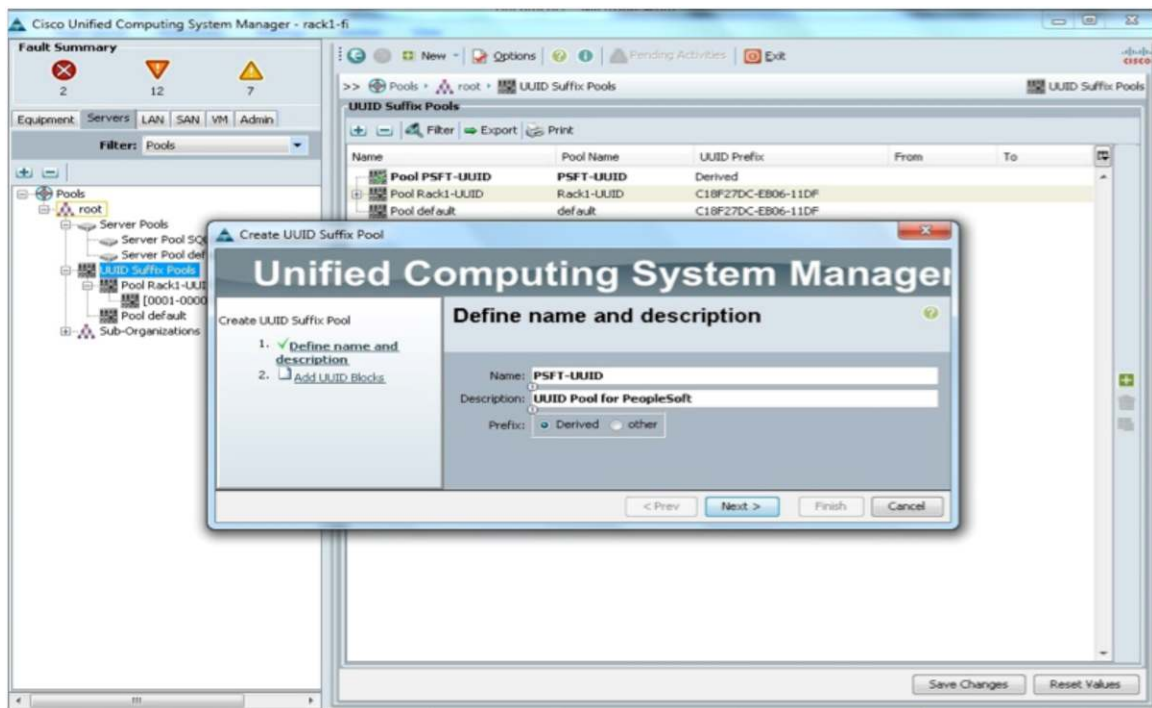
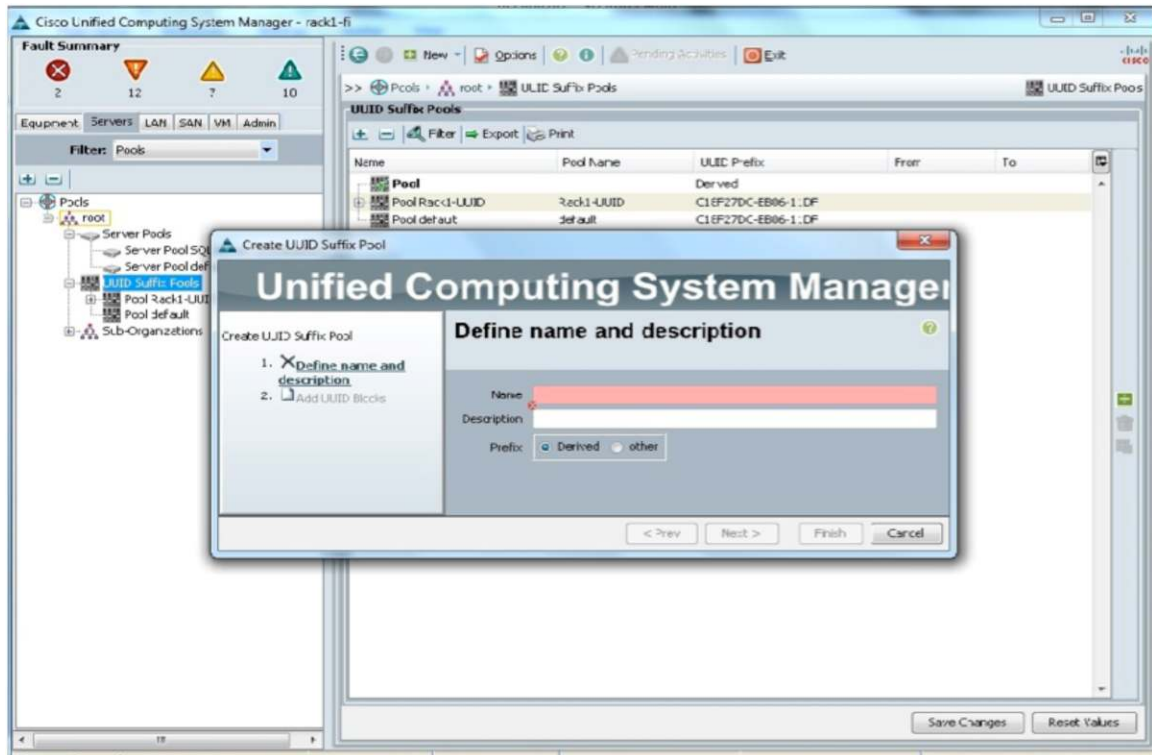
Pools are the building blocks for providing unique identification of hardware resources. As the basis for the utility computing model, they allow service profiles to be associated with any blade, while providing the exact same ID and presentation to the upstream LAN and SAN. Three sets of pools are used as part of Cisco UCS best practices:

- UUID pools: Provide IDs, similar to a serial number or service tag

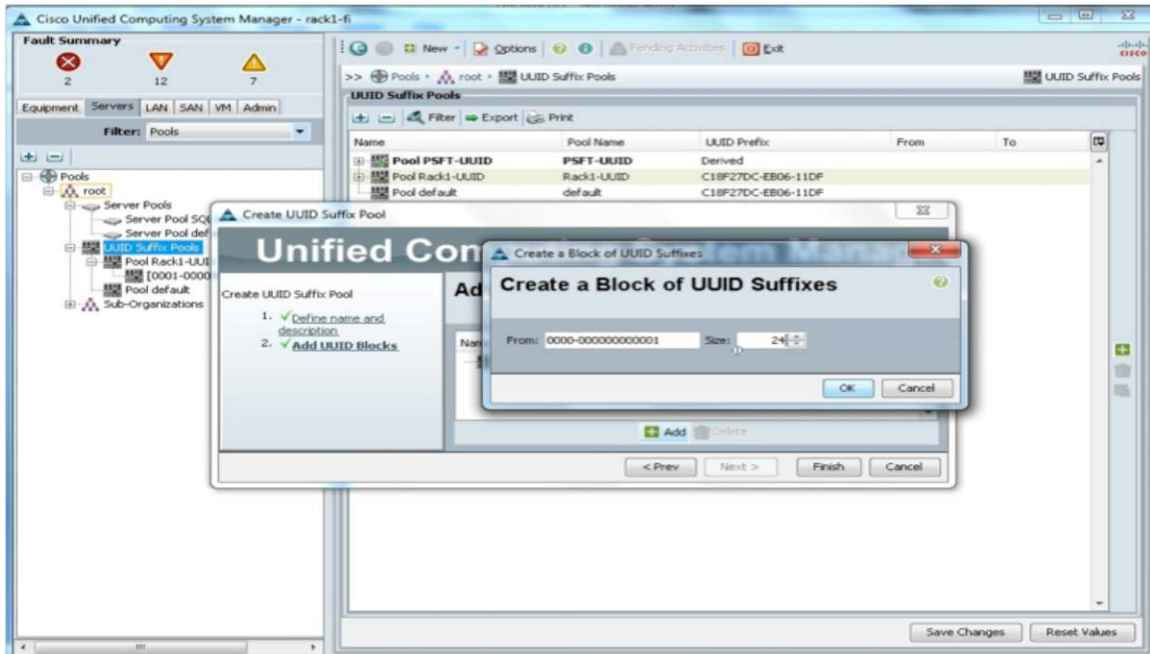
-
- Worldwide node name (WWNN) and worldwide port name (WWPN) pools: Provide unique IDs for Fibre Channel resources on servers (Fibre Channel nodes and ports)
 - MAC address pools: Provide unique IDs for virtual network interface ports

Cisco UCS assigns MAC addresses, management IP addresses, and WWN addresses using a pool mechanism. These pools are all functionally organized, with UUID pools maintained from the Server tab, WWNN and WWPN pools maintained from the SAN tab, and MAC address pools maintained from the LAN tab. Cisco UCS Manager disperses the pools using service profiles. All pools need to be set up before you create any of the profiles to be assigned.

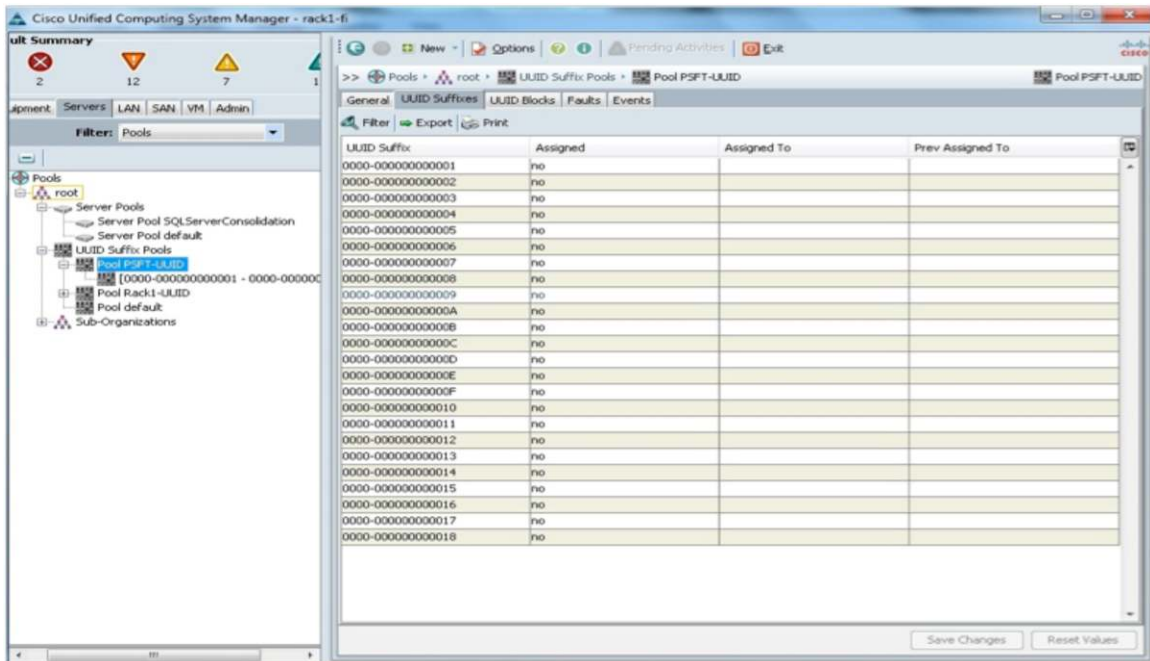
Create UUID Pool from Server Tab



The first string of digits constitutes the prefix of the UUID and is fixed. The remaining digits, the UUID suffix, are variable.



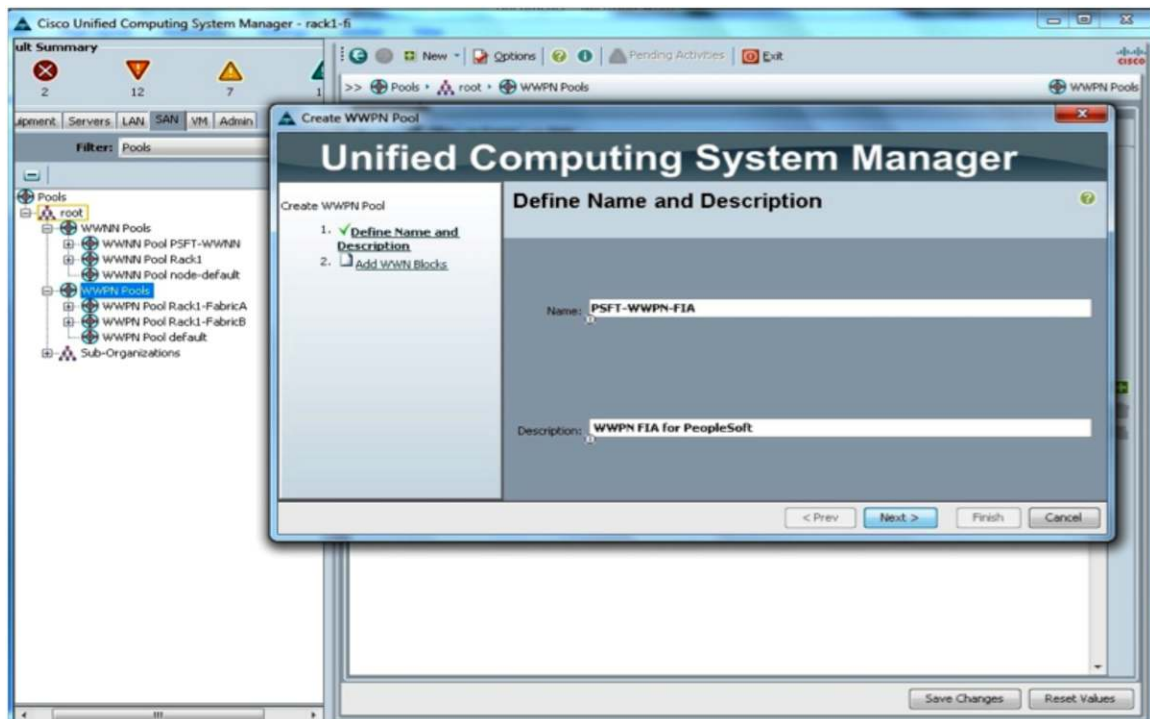
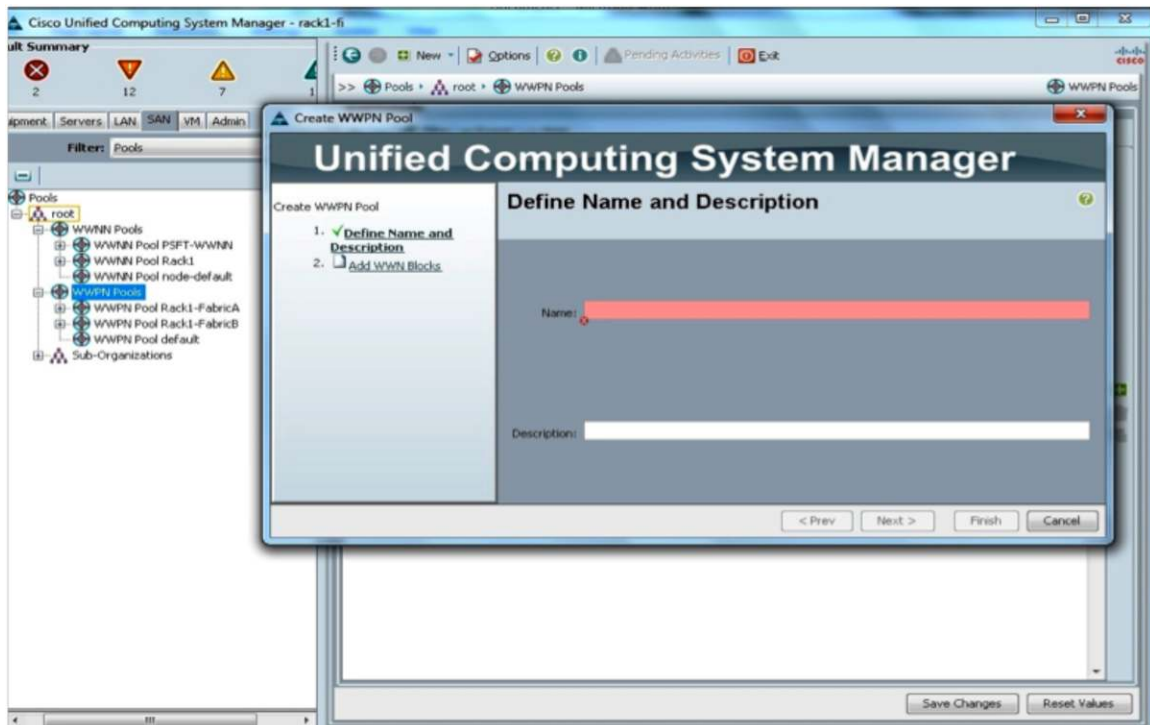
A UUID suffix pool helps ensure that these variable values are unique for each server associated with a service profile that uses that particular pool and helps prevent conflicts.



If UUID suffix pools are used in service profiles, the UUID of the server associated with the service profile does not need to be manually configured.

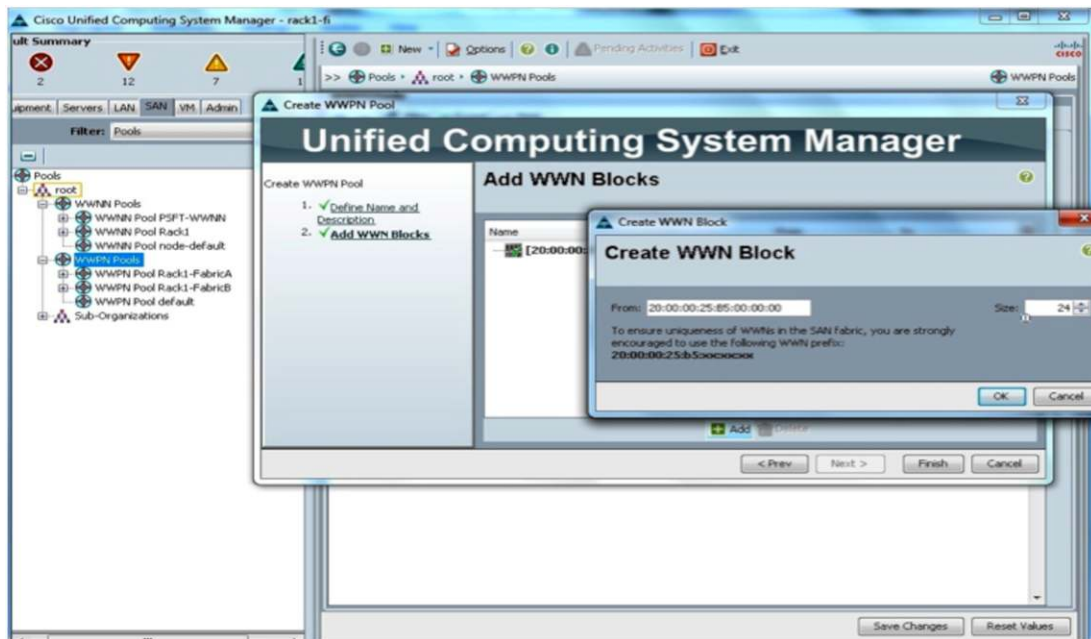
Create WWPN Pool from SAN Tab

From the WWPN pools, unique pools will be created for each fabric.

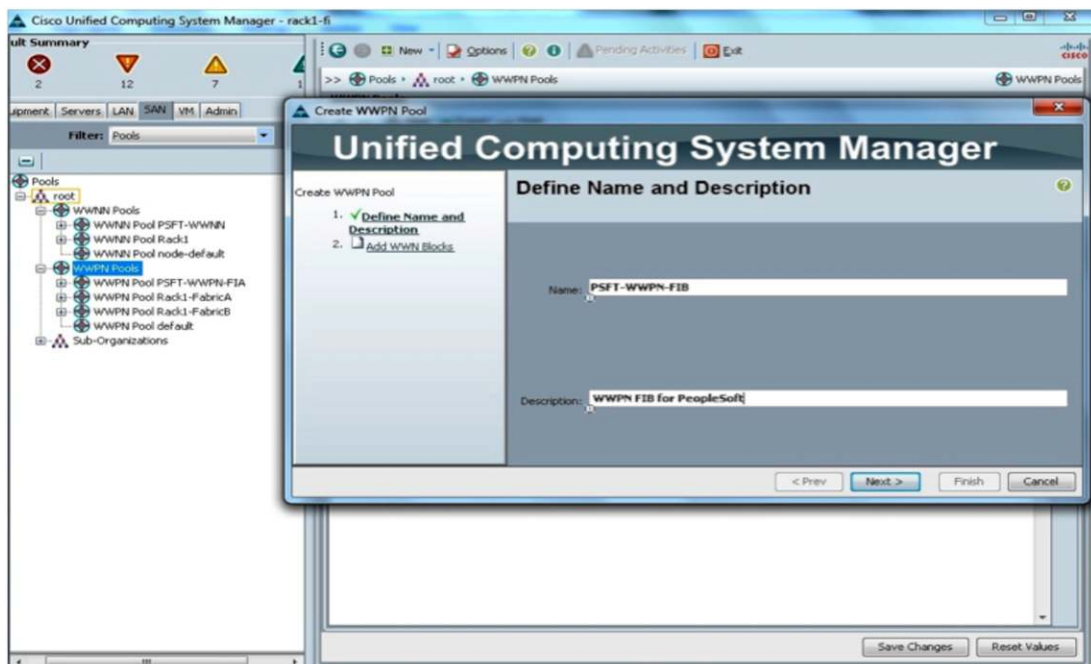


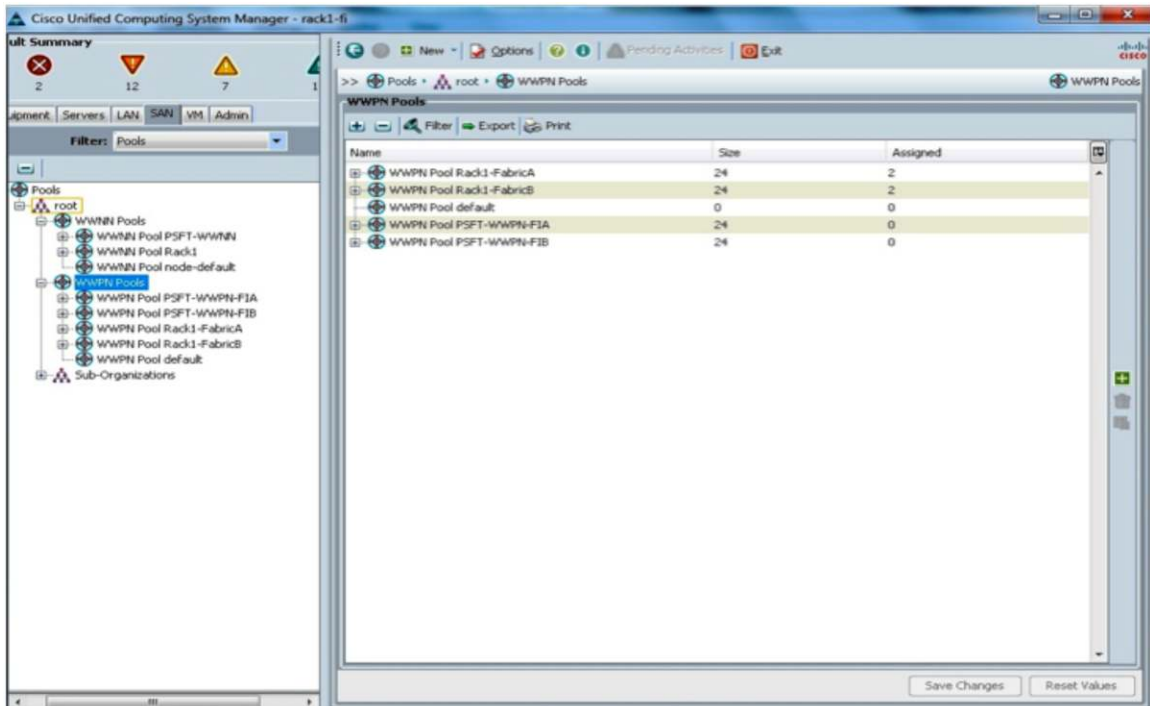
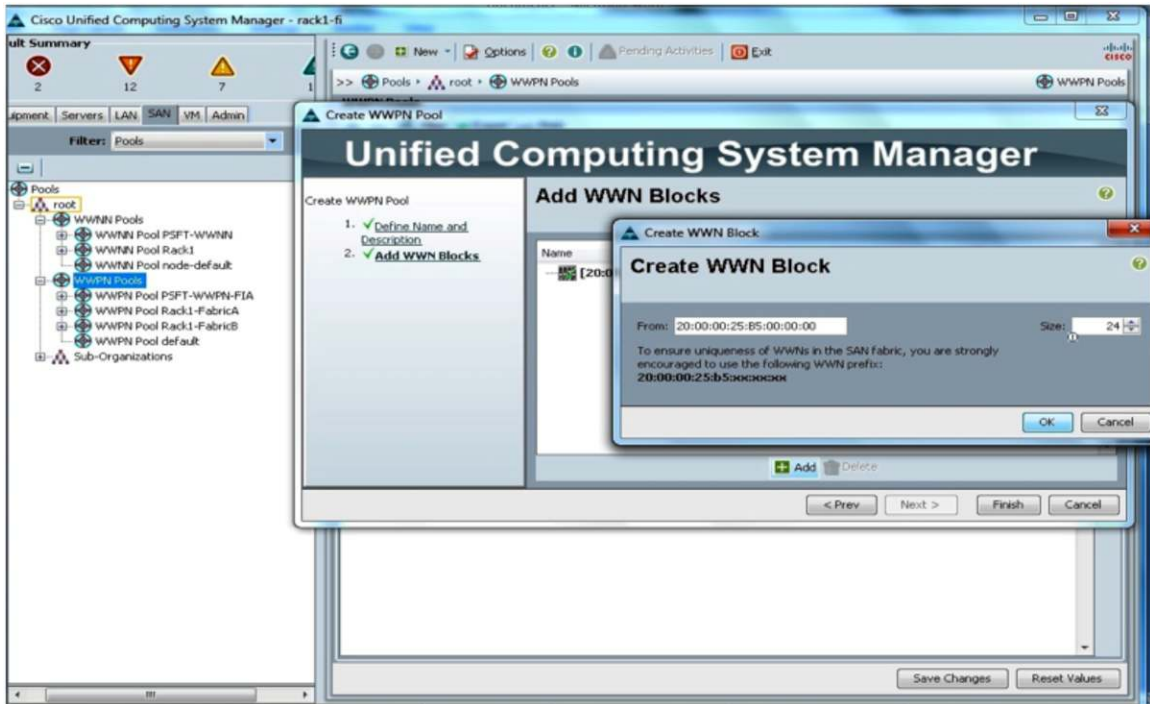
For the address convention, the following is used:

- **20:00:00:25:b5** (do not change)
- **02** (identifies this system)
- **0A** (the fabric identifier)
- **00** (start of available addresses; up to 255)



Repeat the exact same steps for the second fabric except change the fabric identifier to 0B and change the specific name.





Create Service Profile Template

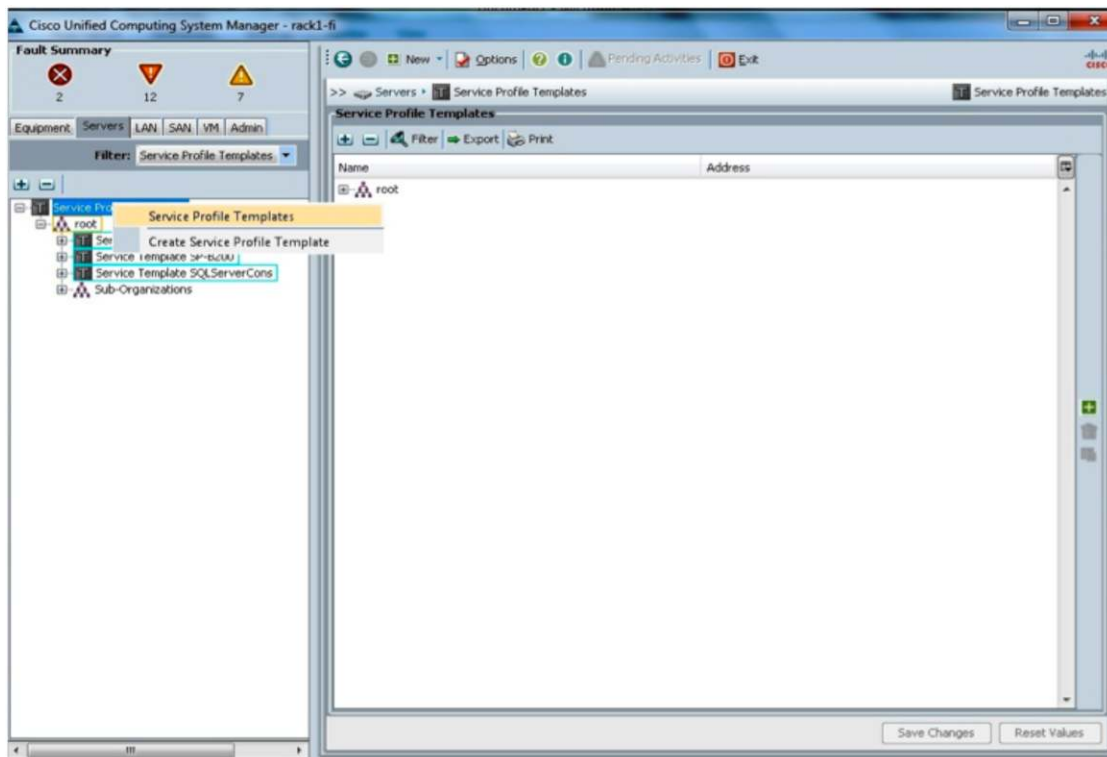
To understand blade management in Cisco UCS, you need to understand the service profile, or logical server. The service profile represents a logical view of a single blade server, without the need to know exactly which blade is discussed. The profile object contains the server personality: for example, identity and network information. The profile can then be associated with a single blade at a time.

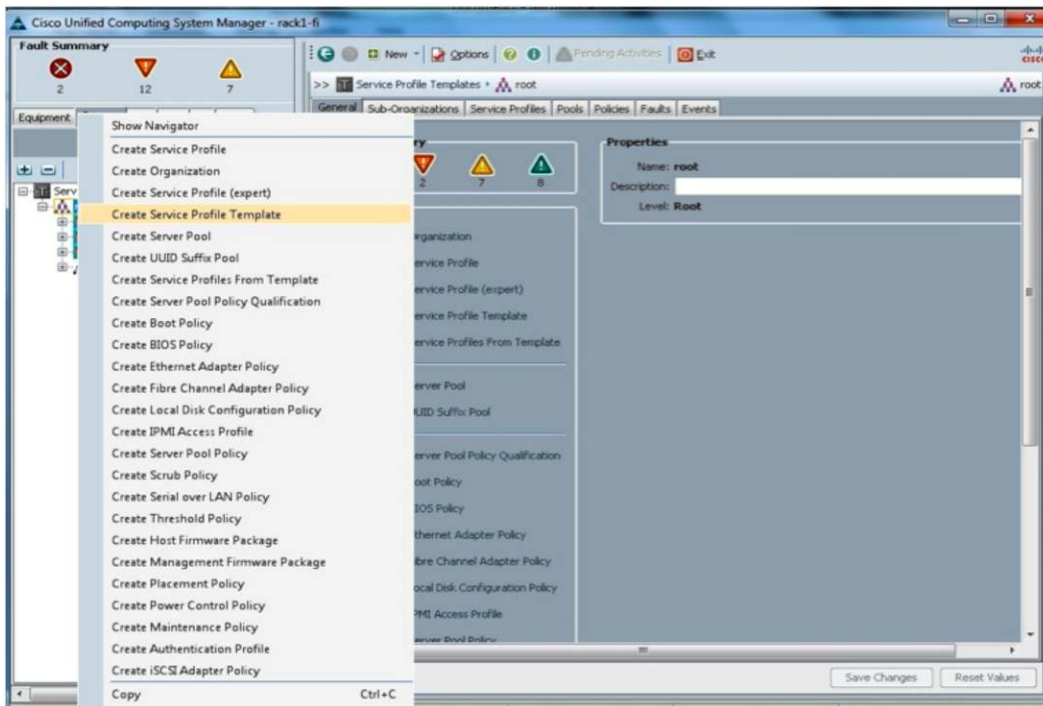
The concept of profiles was created to support the notion of logical server mobility, or the transfer of identity transparently from one blade to another, as well as the pooling concept. Even if a service profile is intended to manage a blade server as a traditional individual server and the benefits of mobility and pooling are not used, a service profile for a blade will still need to be created and managed. Although a blade can be booted without a service profile, it will not have network or SAN connectivity.

A Cisco UCS service profile contains the following information:

- Identity information for server (UUID)
- WWNN (serverwide)
- LAN and SAN configuration (through virtual NIC [vNIC] and virtual HBA [vHBA] configuration)
 - NIC and HBA identity (MAC address and WWN)
 - Ethernet NIC profile
 - VLAN and VSAN configuration information
 - Boot order
 - Various policies

Identify Service Profile

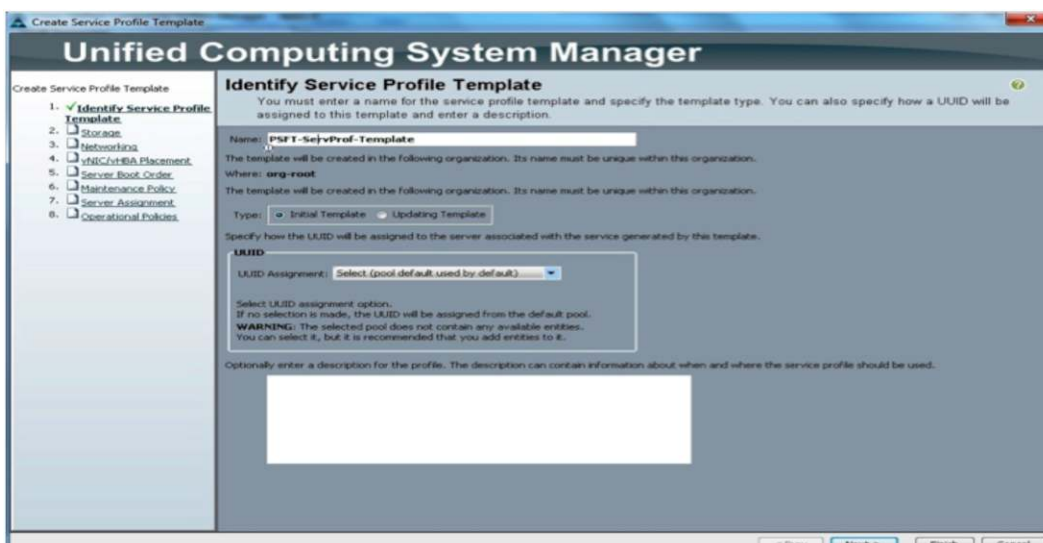




Cisco UCS Manager provides templates for the primary objects (vNICs, vHBAs, and service profiles) to facilitate reuse and rapid deployment. Properties, attributes, and policies can be defined at the template level, helping enable rapid instantiation and provisioning.

Best practices include:

- Use expert mode when creating service profile templates to have the most control and definition capabilities in the utility computing model.
- When creating templates, draw from the subordinate pools and policies that have been previously defined.



Create Service Profile Template

Unified Computing System Manager

Create Service Profile Template

1. **Identify Service Profile Template**
2. Storage
3. Networking
4. vNIC/vHBA Placement
5. Server Boot Order
6. Maintenance Policy
7. Server Assignment
8. Operational Policies

Identify Service Profile Template

You must enter a name for the service profile template and specify the template type. You can also specify how a UUID will be assigned to this template and enter a description.

Name:

The template will be created in the following organization. Its name must be unique within this organization.

Where: **org-root**

The template will be created in the following organization. Its name must be unique within this organization.

Type: ☒ Initial Template ☐ Updating Template

Specify how the UUID will be assigned to the server associated with the service generated by this template.

UUID

UUID Assignment:

The UUID will be assigned from the selected pool.
The available/total UUIDs are displayed after the pool name.

Optionally enter a description for the profile. The description can contain information about when and where the service profile should be used.

< Prev Next > Finish Cancel

Create Service Profile Template

Unified Computing System Manager

Create Service Profile Template

1. **Identify Service Profile Template**
2. **Storage**
3. Networking
4. vNIC/vHBA Placement
5. Server Boot Order
6. Maintenance Policy
7. Server Assignment
8. Operational Policies

Storage

Optionally specify disk policies and SAN configuration information.

Select a local disk configuration policy.

Local Storage:

☒ Create Local Disk Configuration Policy

If nothing is selected, the default Local Storage configuration policy will be assigned to this service profile.

How would you like to configure SAN connectivity? ☐ Simple ☒ Expert ☐ No vHBAs

A server is identified on a SAN by its World Wide Node Name (WWNN). Specify how the system should assign a WWNN to the server associated with this profile.

World Wide Node Name

WWNN Assignment:

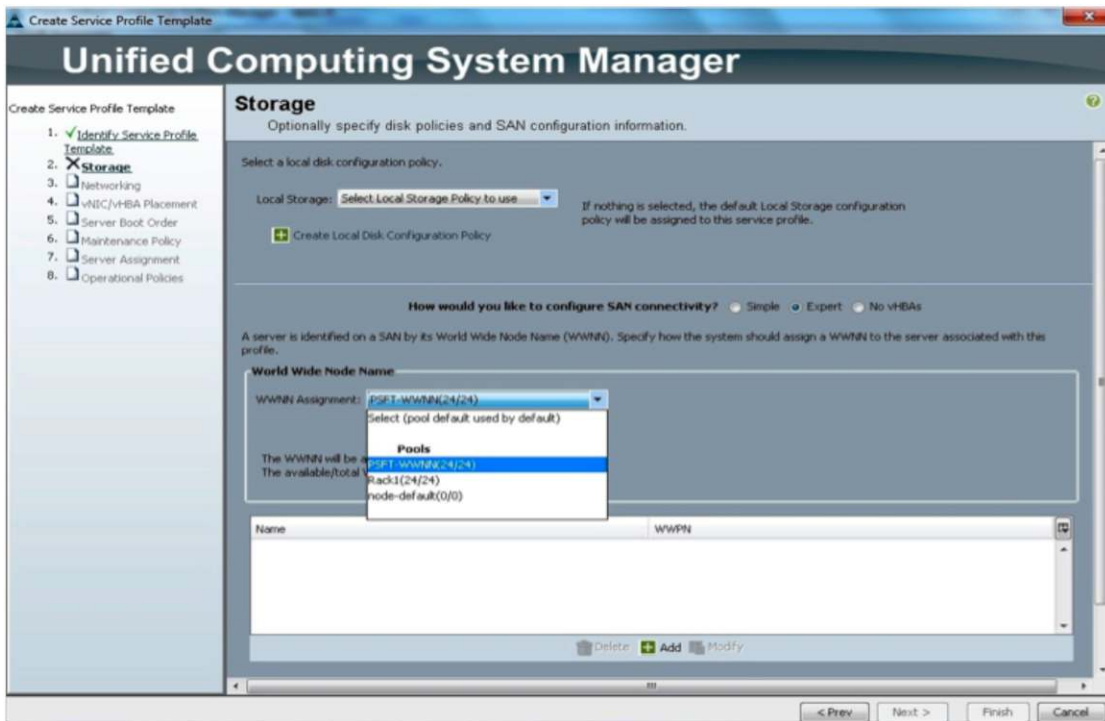
The WWNN will be assigned from the selected pool.
The available/total WWNNs are displayed after the pool name.

WARNING: The selected pool does not contain any available entities.
You can select it, but it is recommended that you add entities to it.

Name	WWPN
<input type="text"/>	

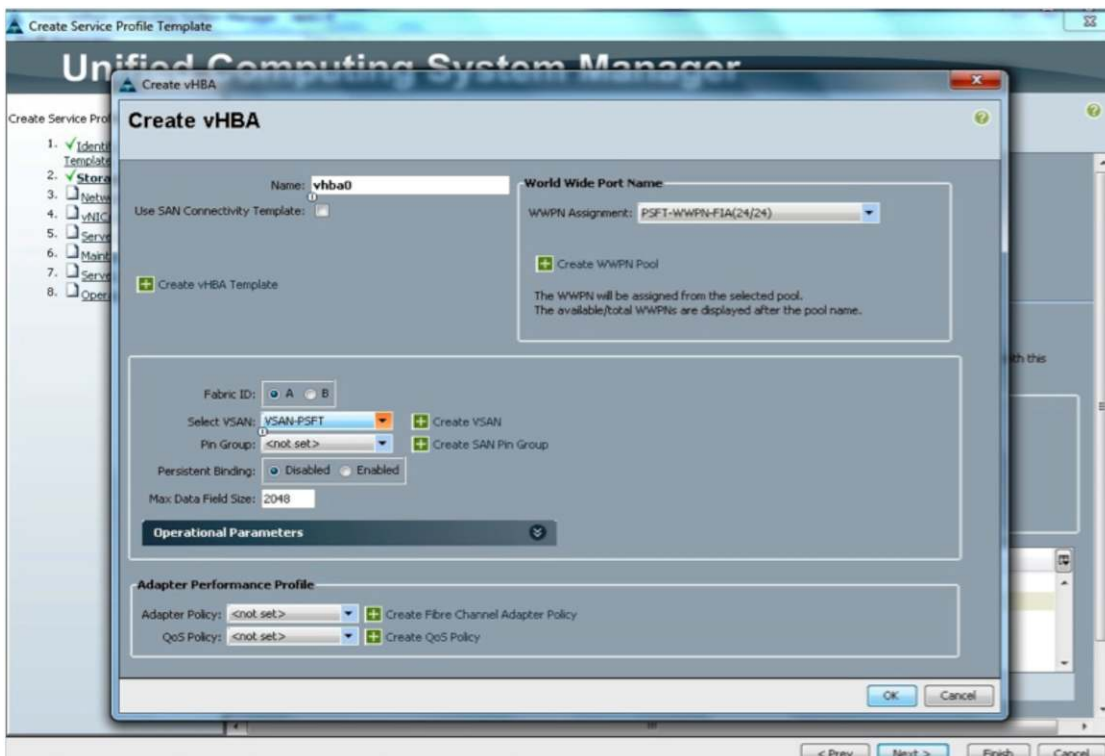
Delete Add Modify

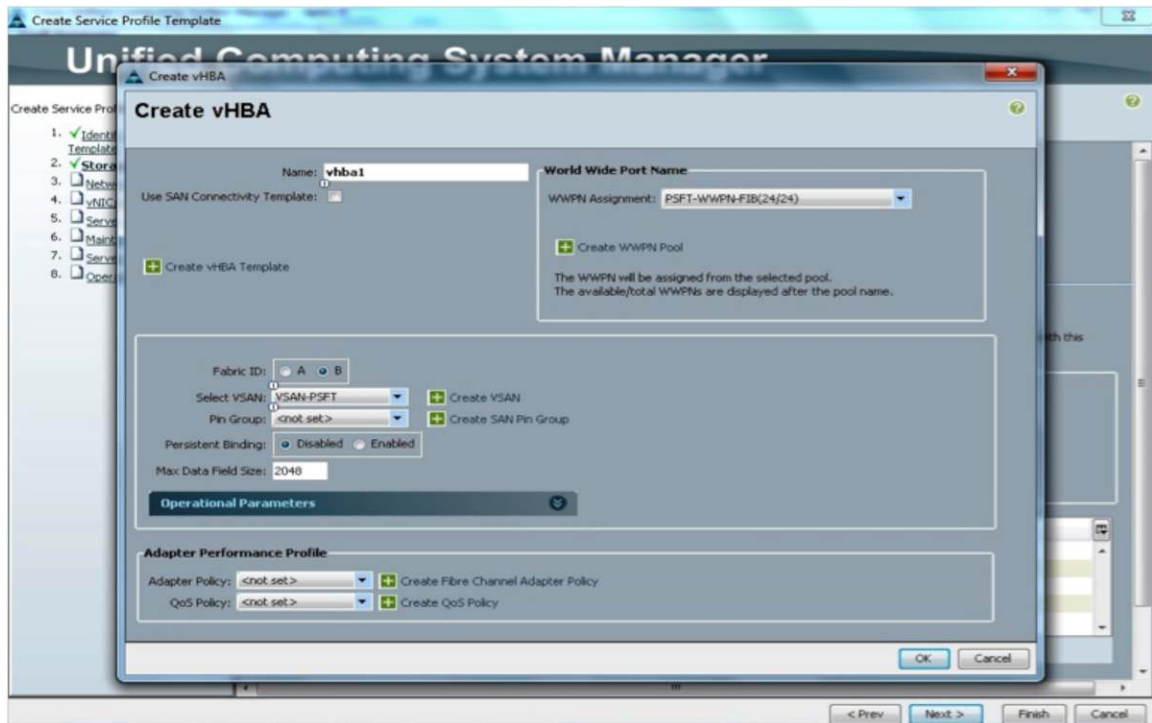
< Prev Next > Finish Cancel

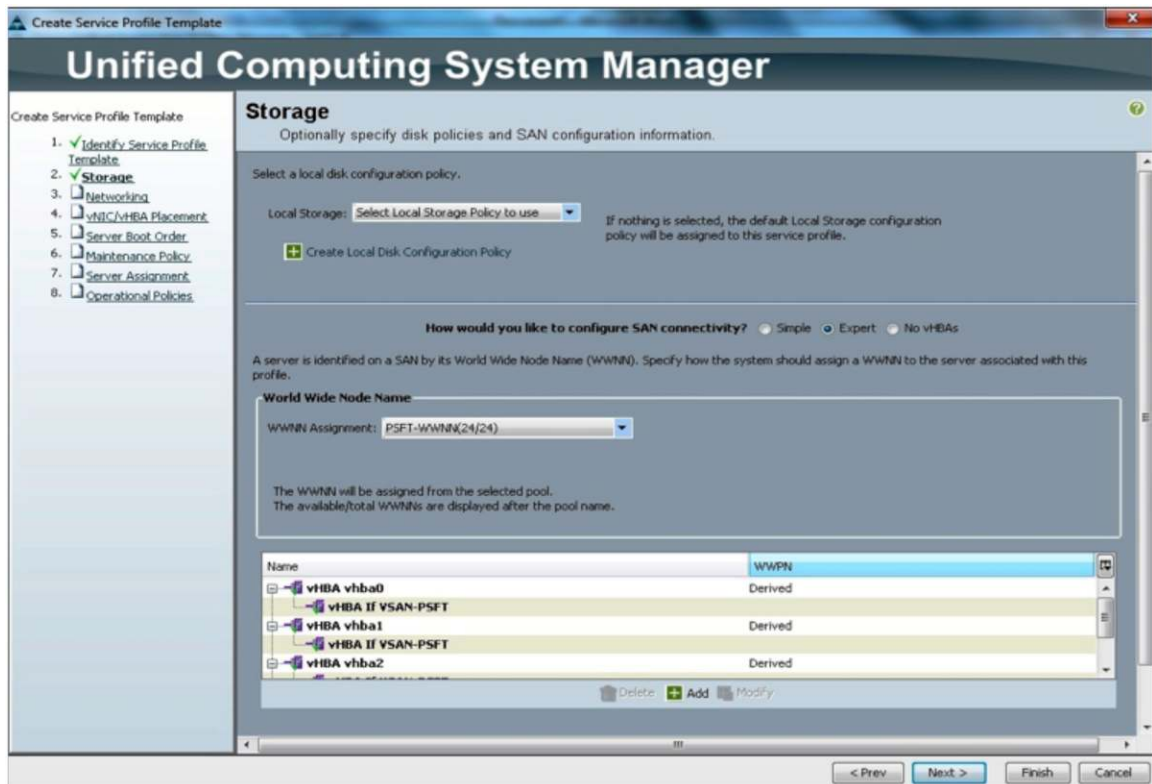
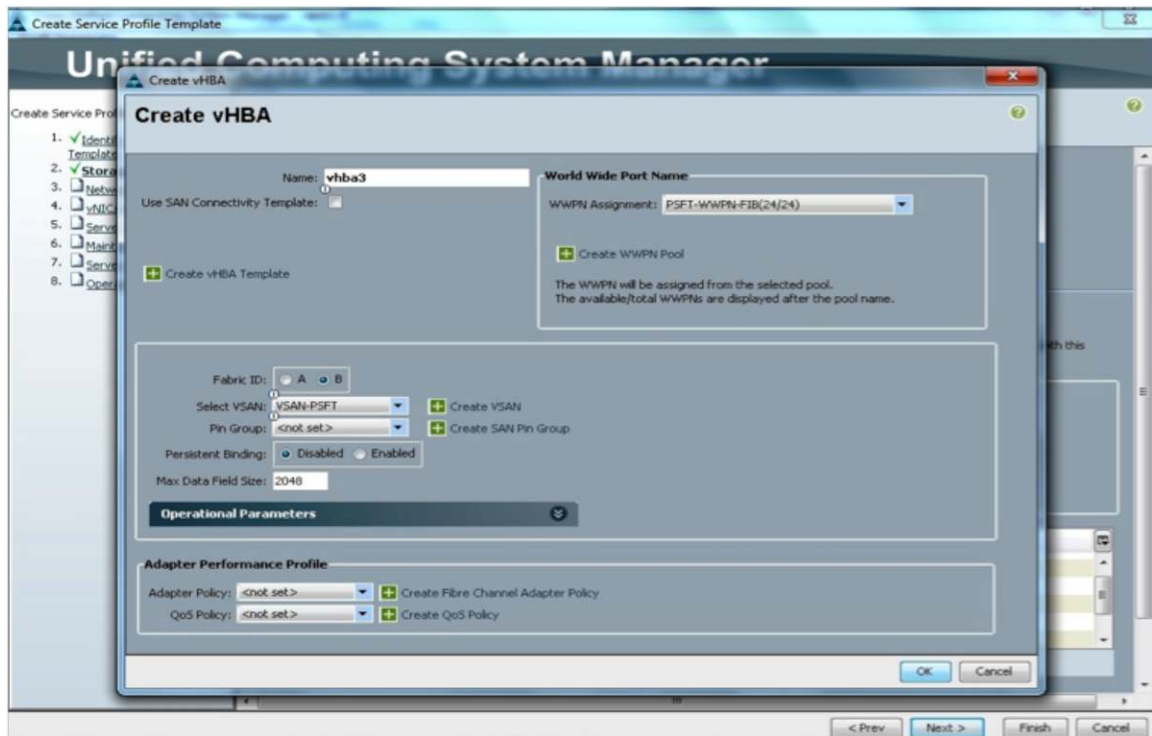


Create vHBA Template (Attach Storage Configuration to Template)

vNICs and vHBAs are the most difficult parts of service profiles to create. vNICs are identified with MAC addresses, and vHBAs are identified with WWNs.

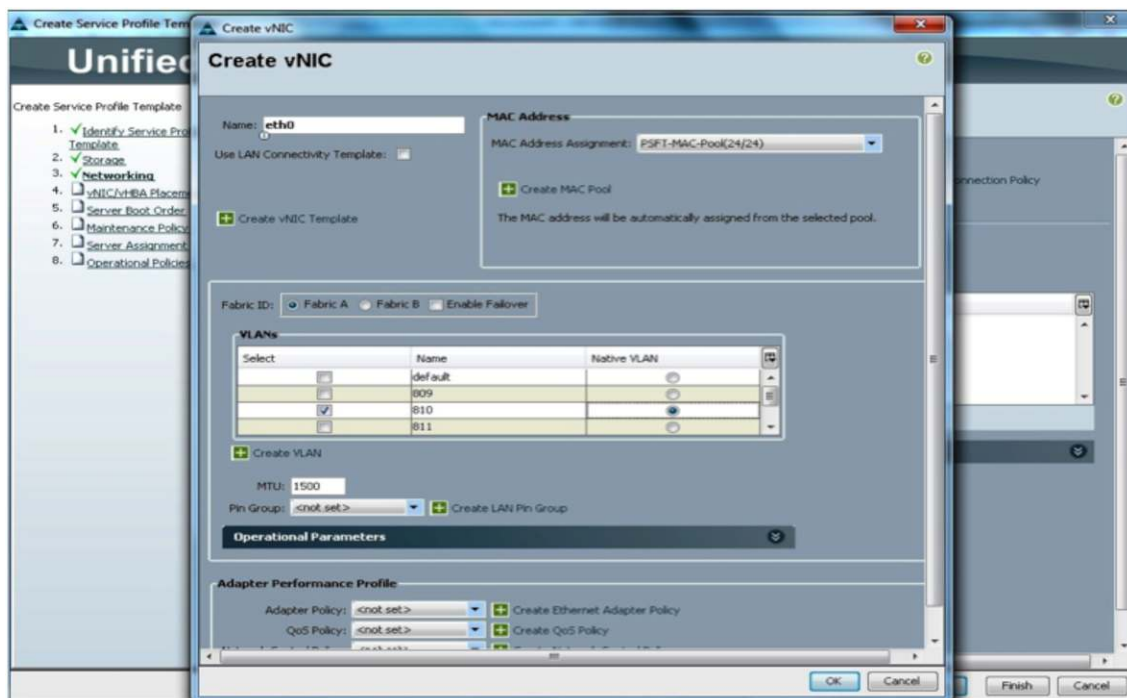
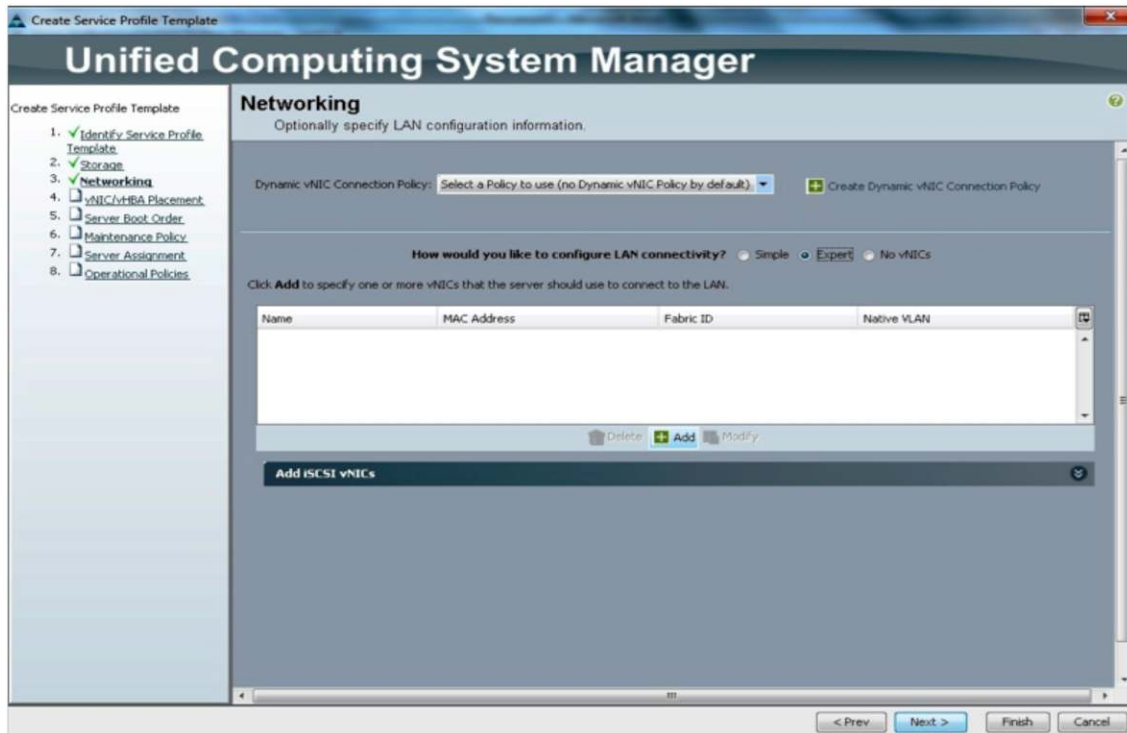


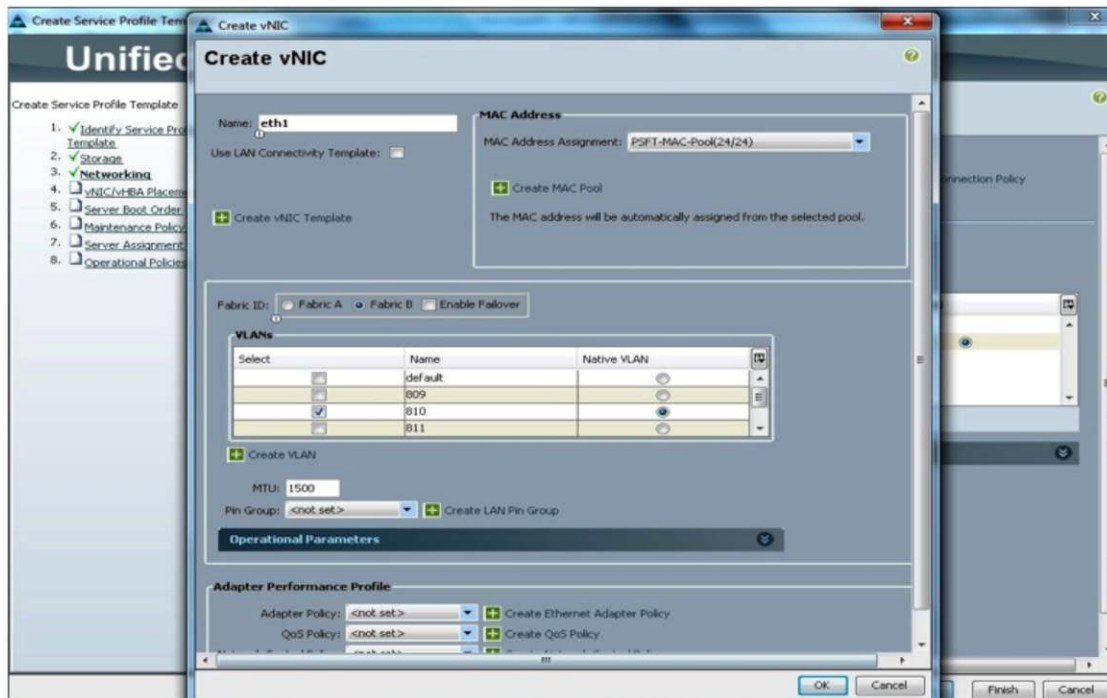




Create vNIC Template (Attach Network Configuration to Template)

vNIC and vHBA resources are always associated with a specific fabric interconnect (A side or B side). A typical service profile has at least two vNICs and vHBAs: one bound to each side. vNIC (or vHBA) templates can be used to encapsulate both the MAC address pool (or WWPN pool) association and the fabric ID.

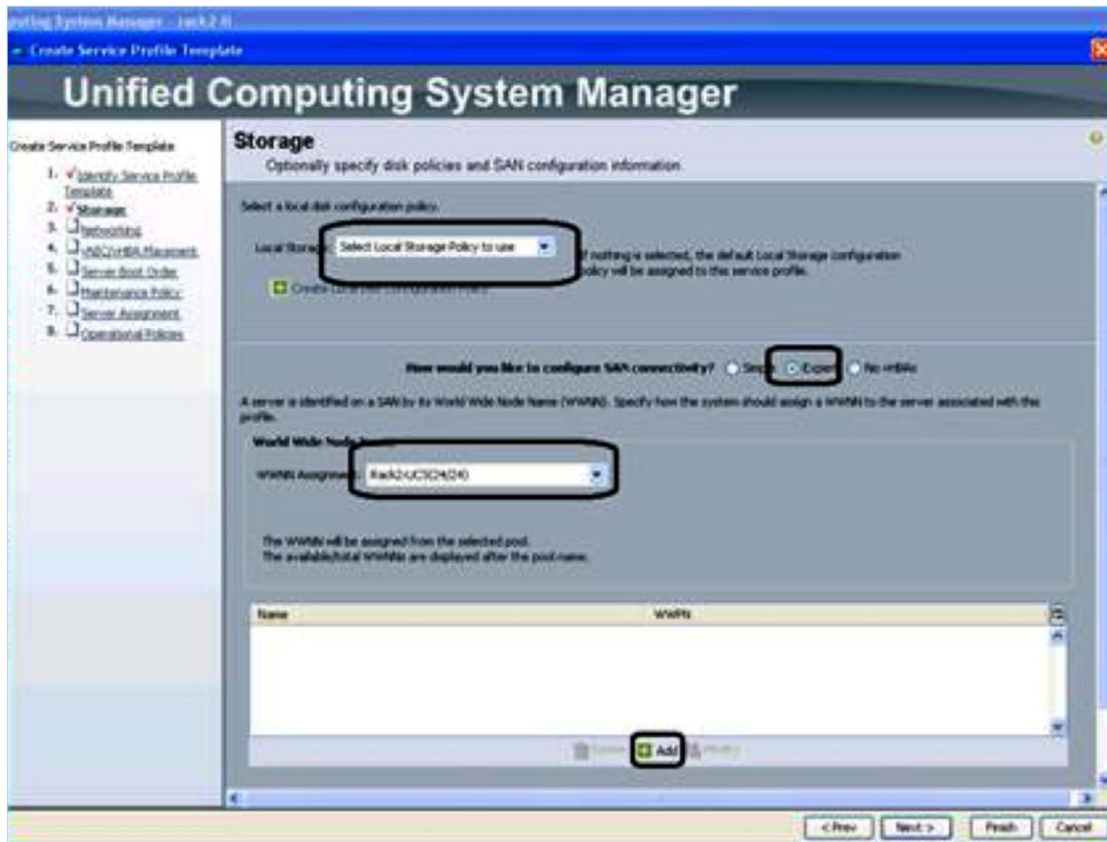




Create vHBA in Expert Mode

In the Storage Configuration Screen, do the following

1. Do not select any local Disk policy. You are doing a SAN Boot for the B230/B250 Server and the RAID policy configured in the Storage LUN is to be used.
2. Select Expert mode in SAN Connectivity option.
3. Assign WWNN from the WWNN pool configured in the previous section.
4. Click Add to assign WWPN for vHBA's



The vHBA for SANBoot Installation are mapped to Fabric A and Fabric B respectively. This allows redundancy at the Fabric interconnect level. To configure vHBA screen:

- Select the WWPN pool as configured in the previous section. You have configured different WWPN pools for Fabric A and Fabric B. So this has to be selected as per the Fabric IS selected
- Select Fabric ID as "A", select Fabric ID as "B" for vHBA2
- Select VSAN as configured previously
- Follow same steps for the other three vHBA



Create vHBA

Name: **vhba0**

World Wide Port Name

WWPN Assignment: **Rack2-UCS-FabricA(24/24)**

+ Create WWPN Pool

The WWPN will be assigned from the selected pool.
The available/total WWPNs are displayed after the pool name.

+ Create vHBA Template

Fabric ID: ☒ A ☐ B

Select VSAN: **VSAN8**

+ Create VSAN

Pin Group: **<not set>**

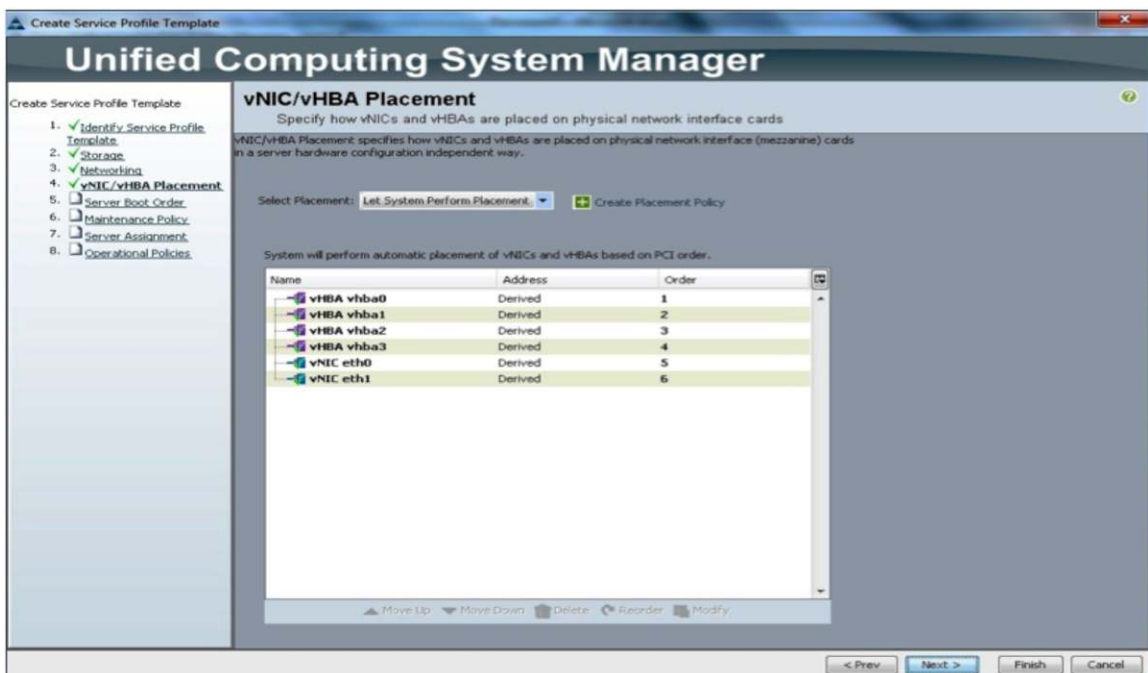
+ Create SAN Pin Group

Persistent Binding: ☒ disabled ☐ enabled

Max Data Field Size: **2048**

Operational Parameters

Go to next screen, Networking , and do the following to specify the LAN configuration:



Unified Computing System Manager

Create Service Profile Template

1. Identify Service Profile Template
2. Storage
3. Networking
4. **vNIC/vHBA Placement**
5. Server Boot Order
6. Maintenance Policy
7. Server Assignment
8. Operational Policies

vNIC/vHBA Placement

Specify how vNICs and vHBAs are placed on physical network interface cards

vNIC/vHBA Placement specifies how vHBAs and vNICs are placed on physical network interface (mezzanine) cards in a server hardware configuration independent way.

Select Placement: **Let System Perform Placement**

+ Create Placement Policy

System will perform automatic placement of vNICs and vHBAs based on PCI order.

Name	Address	Order
vHBA vhba0	Derived	1
vHBA vhba1	Derived	2
vHBA vhba2	Derived	3
vHBA vhba3	Derived	4
vNIC eth0	Derived	5
vNIC eth1	Derived	6

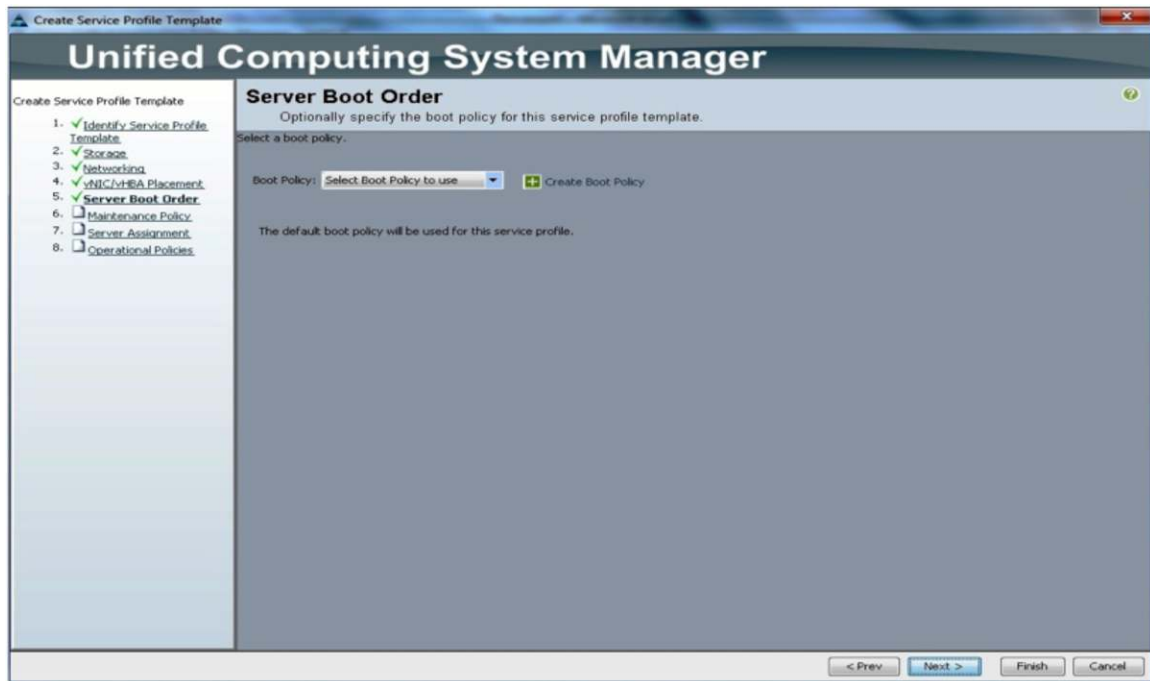
Move Up Move Down Delete Reorder Modify

< Prev Next > Finish Cancel

Attach Boot Policy Configuration to Template

Boot policy defines the boot devices and methods and boot order.

- Place CD-ROM first in the boot order, for emergency recovery.
- For SAN boot, define separate boot policies for each storage array that serves boot LUNs.
- For network or PXE boot, define LAN or vNIC boot as last in the boot order, following either SAN or local boot.



After the service profile template is created, you can create the boot policy; see

http://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/2.0/UCSM_GUI_Configuration_Guide_2_0_chapter29.html-task_1F7624A2A07B48459AB57B9593D98E84

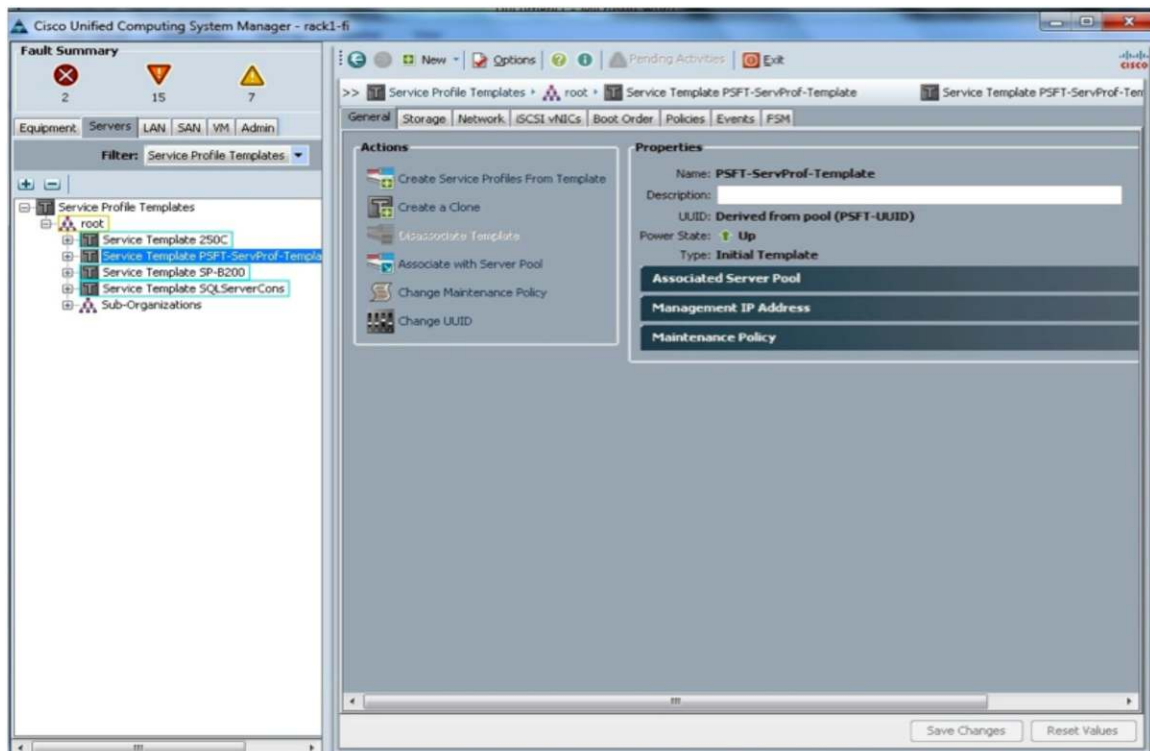
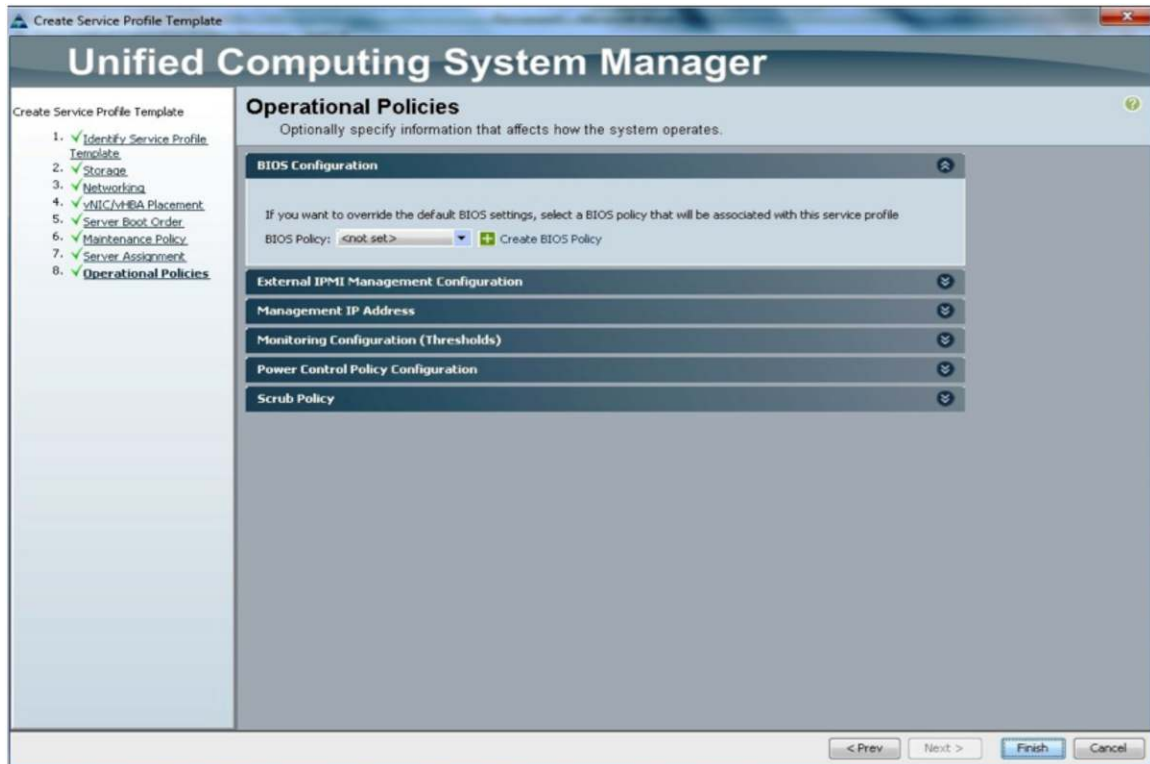
Attach Maintenance Policy Configuration to Template

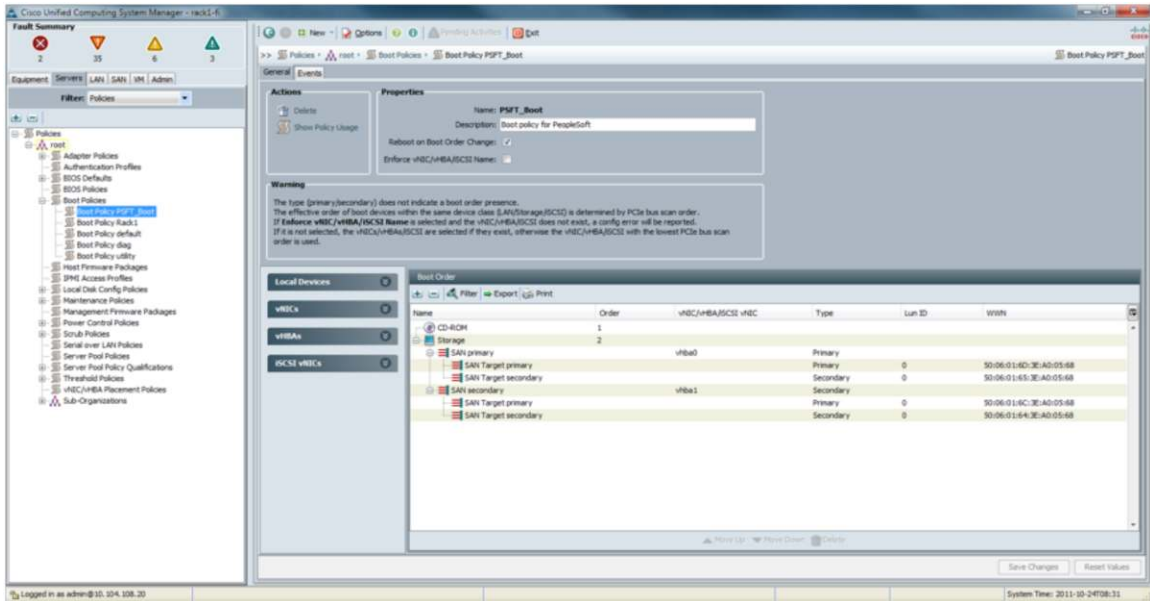
The screenshot shows the 'Create Service Profile Template' wizard in the Unified Computing System Manager. The left sidebar lists the steps: 1. Identify Service Profile Template, 2. Storage, 3. Networking, 4. vNIC/vHBA Placement, 5. Server Boot Order, 6. Maintenance Policy (highlighted), 7. Server Assignment, and 8. Operational Policies. The main panel is titled 'Maintenance Policy' and contains the following text: 'Specify how disruptive changes such as reboots, network interruptions, and firmware upgrades should be applied to the server associated with this service profile.' Below this, it says 'Select a maintenance policy to include with this service profile or create a new maintenance policy that will be accessible to all service profiles.' There is a dropdown menu for 'Maintenance Policy' with the text 'Select (no policy used by default)' and a '+ Create Maintenance Policy' button. A note states: 'No maintenance policy is selected by default. The service profile will immediately reboot when disruptive changes are applied.' At the bottom, there are navigation buttons: '< Prev', 'Next >', 'Finish', and 'Cancel'.

Attach Server Assignment Configuration to Template

The screenshot shows the 'Create Service Profile Template' wizard in the Unified Computing System Manager, specifically the 'Server Assignment' step. The left sidebar is the same as the previous screenshot, with 'Server Assignment' highlighted. The main panel is titled 'Server Assignment' and contains the following text: 'Optionally specify a server pool for this service profile template.' Below this, it says 'You can select a server pool you want to associate with this service profile template.' There is a dropdown menu for 'Pool Assignment' with the text 'Assign Later' and a '+ Create Server Pool' button. Below the dropdown, it says 'Select the power state to be applied when this profile is associated with the server.' There are two radio buttons: 'Up' (selected) and 'Down'. A note states: 'The service profile template is not automatically associated with a server. Either select a server from the list or associate the service profile manually later.' At the bottom, there is a section titled 'Firmware Management (BIOS, Disk Controller, Adapter)' with a downward arrow icon. At the bottom of the window, there are navigation buttons: '< Prev', 'Next >', 'Finish', and 'Cancel'.

Attach Operational Configuration to Template

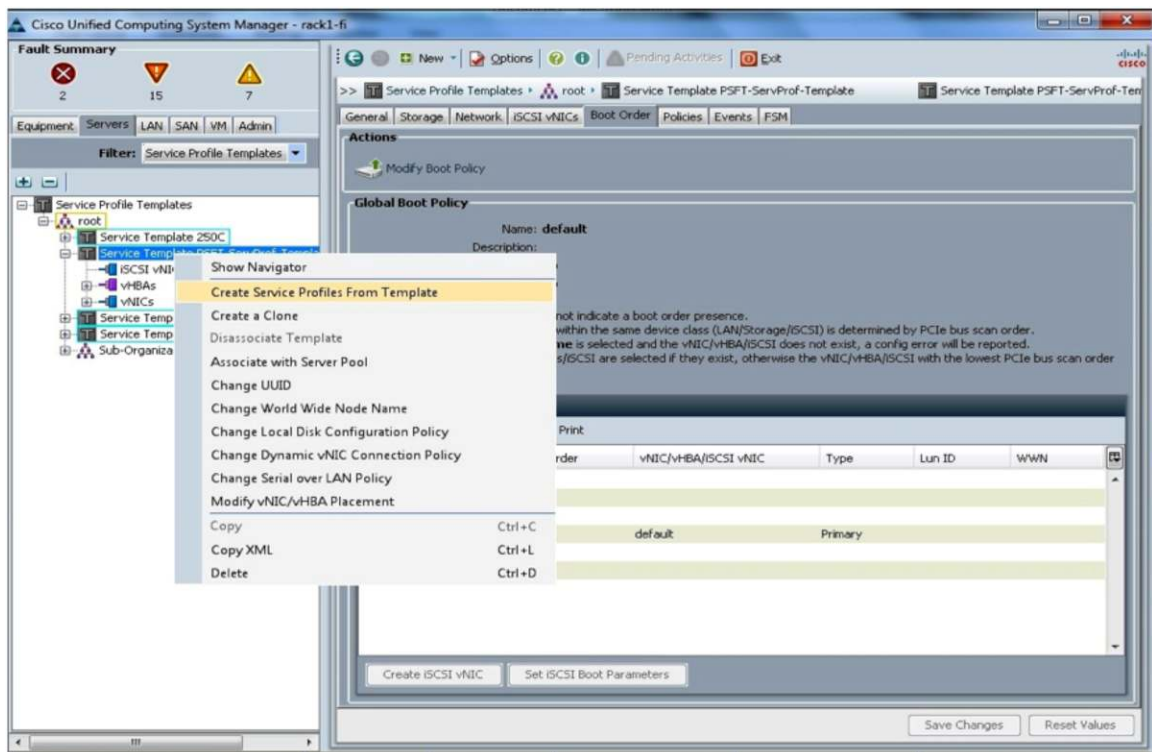




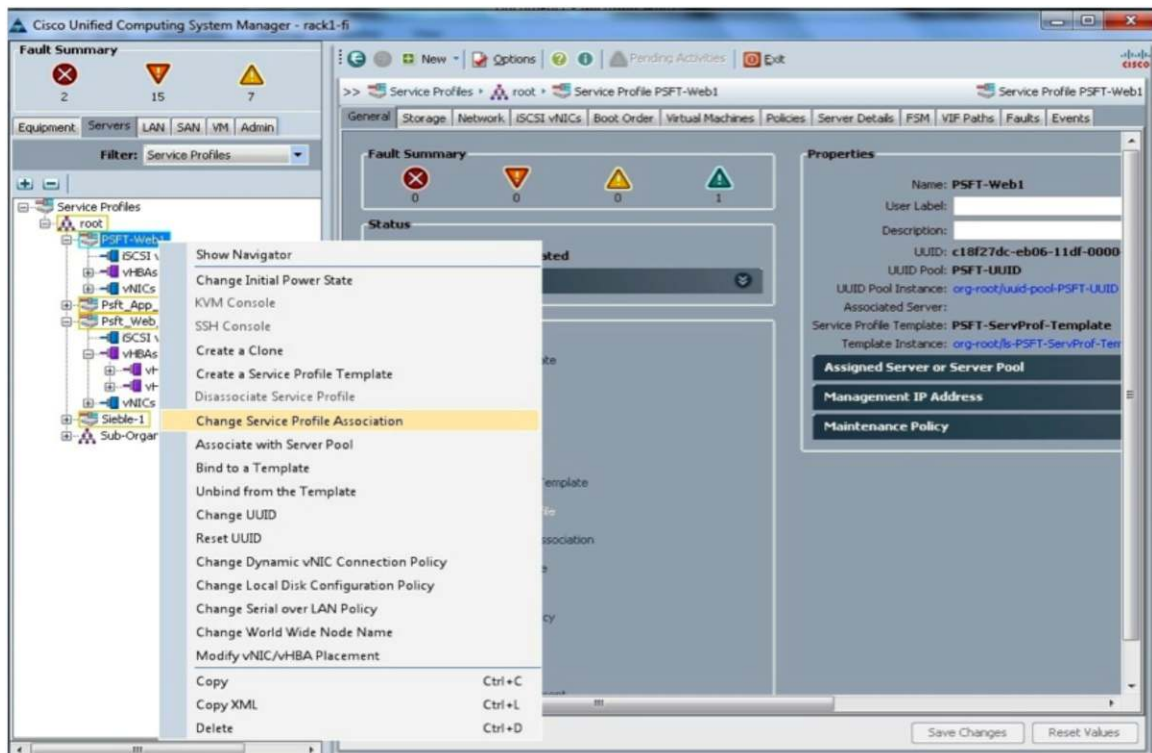
Create Service Profile from Service Profile Template

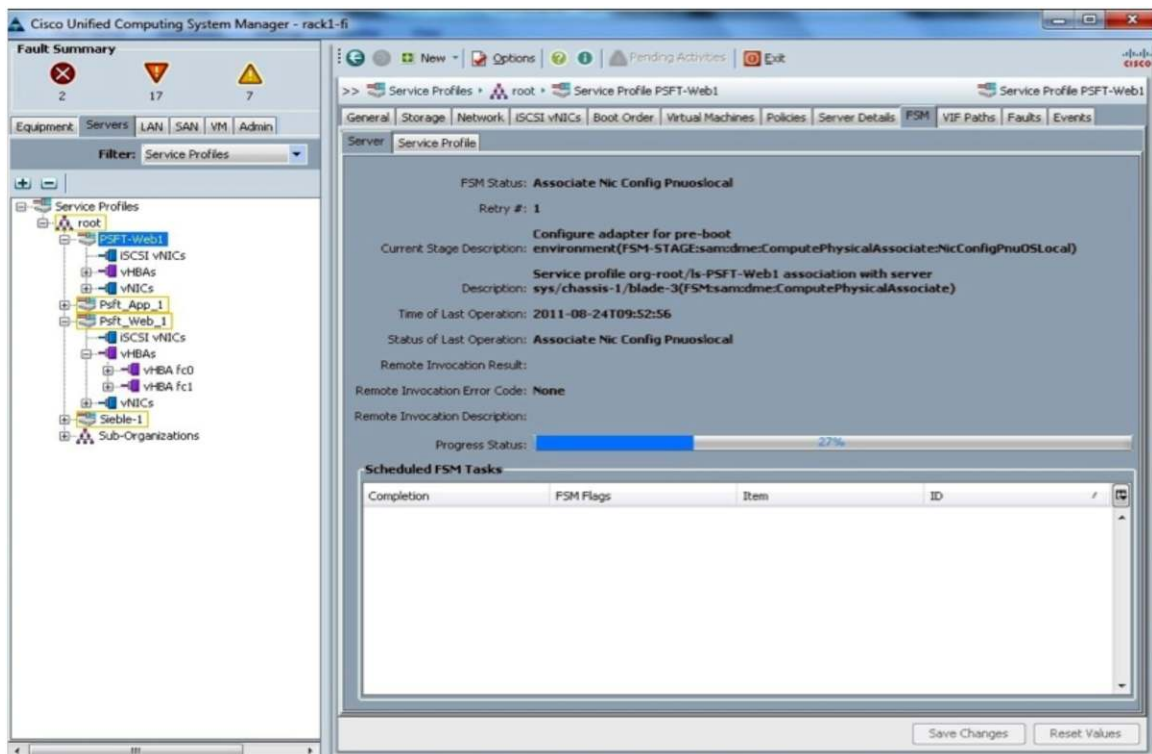
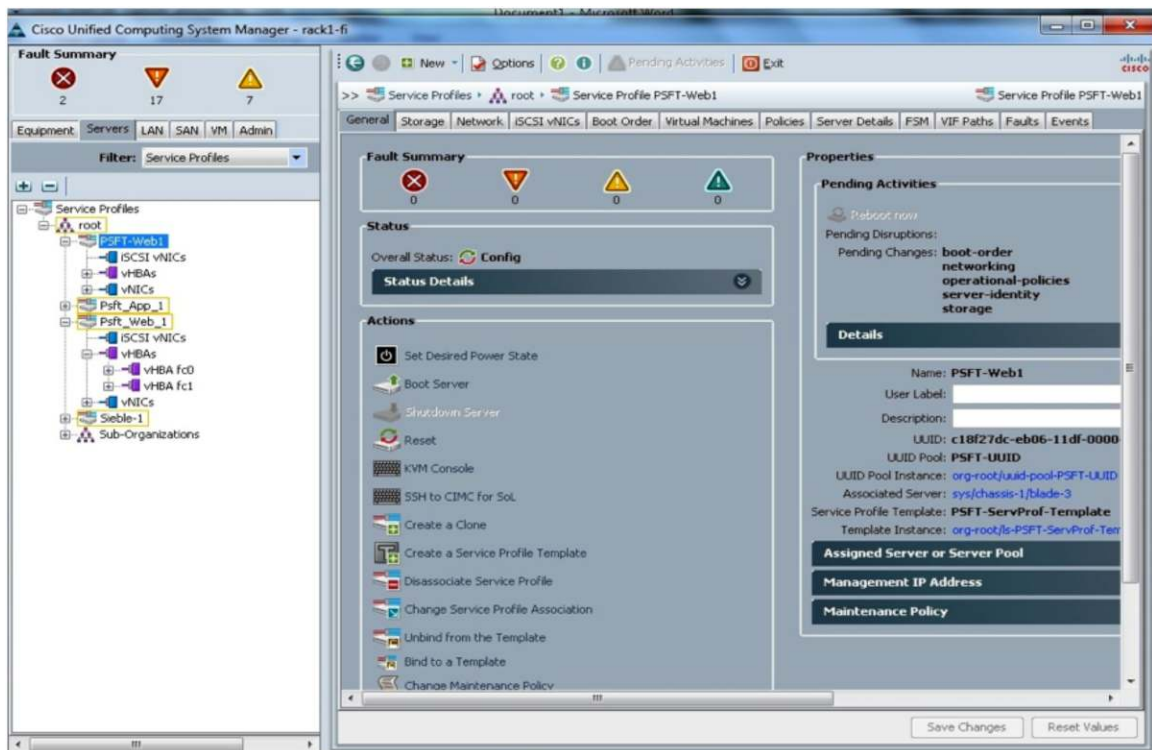
Note: Updating Templates

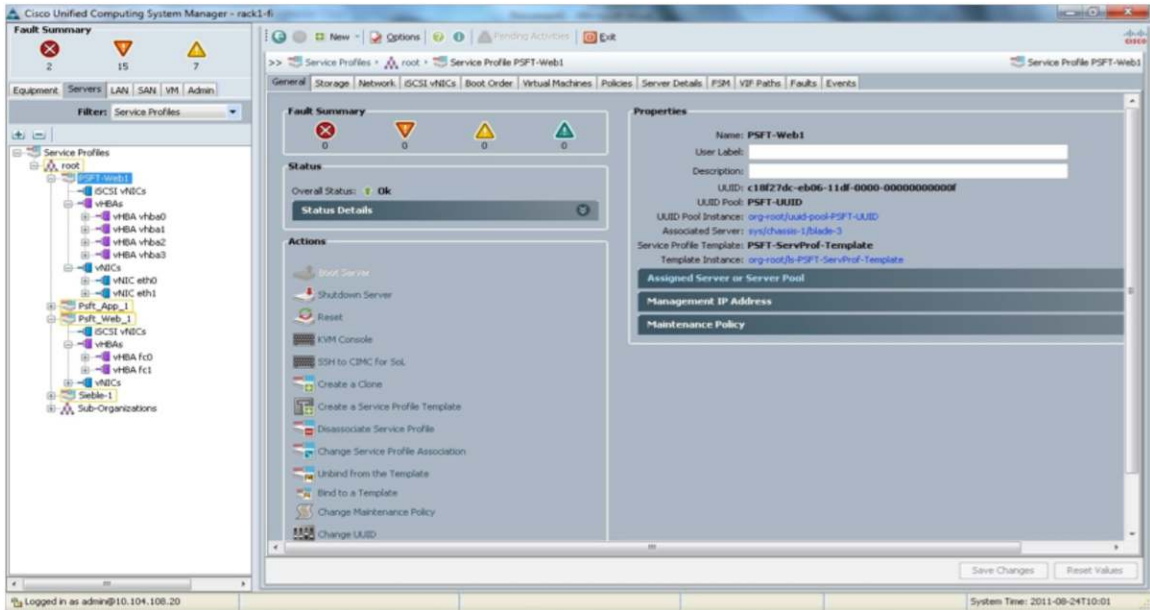
Cisco UCS templates have a very powerful property called updating templates. Updating templates allow changes in the template, such as pools or policies, to be propagated immediately to any higher-level template or service profile (whether instantiated or not). However, changes reflected to instantiated service profile through updating templates may cause a service interruption or server reboot. Therefore, you should use updating templates with the greatest level of awareness and caution. Updating templates can be tremendous time-saving assets during a scheduled maintenance window. However, updating templates can also have disastrous results when used during normal operations.



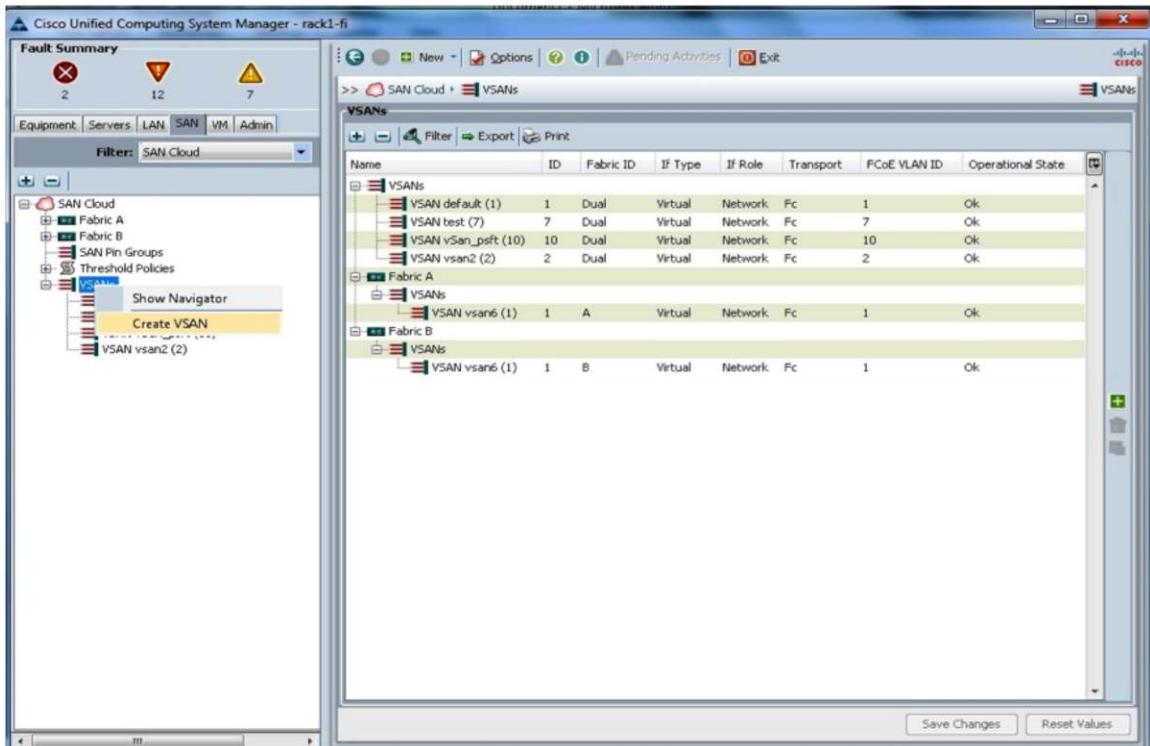
Associate Servers with Service Profile

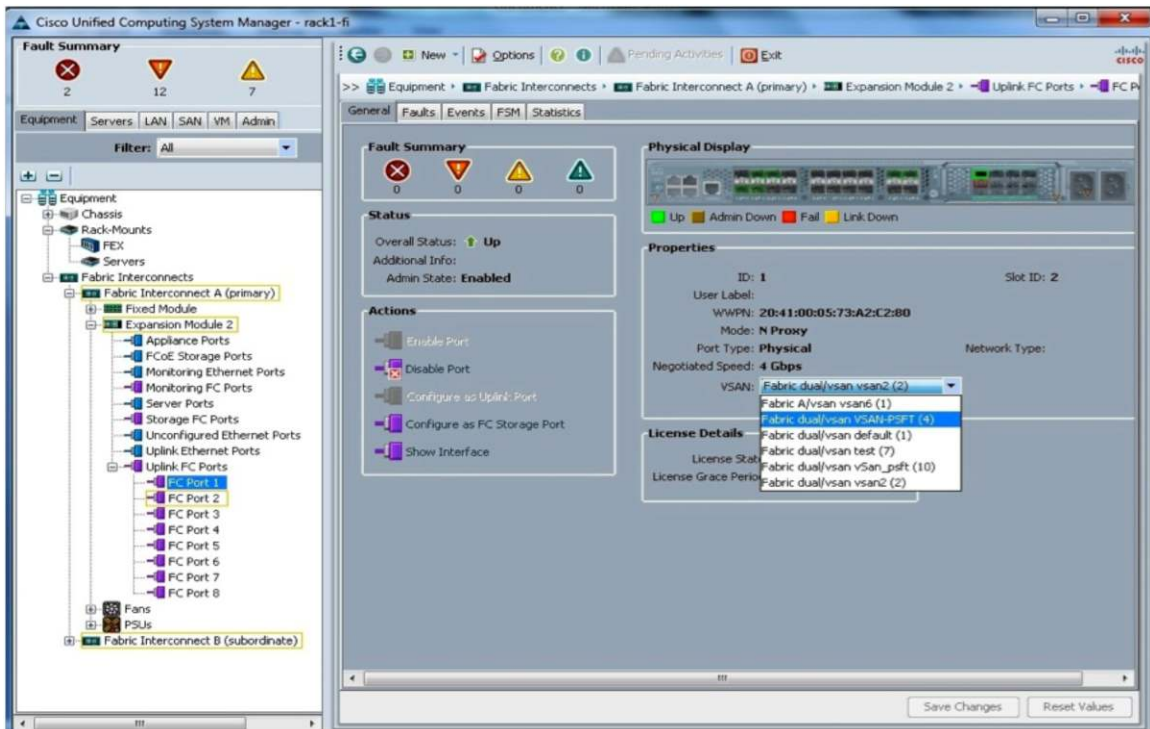
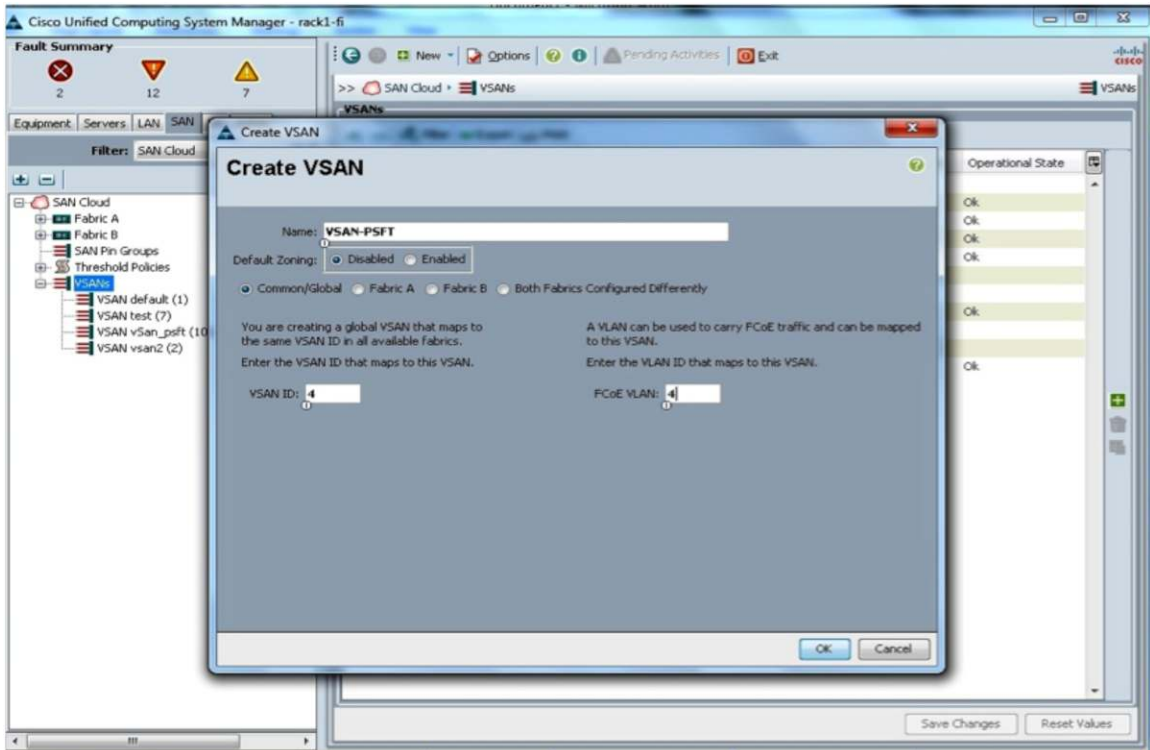


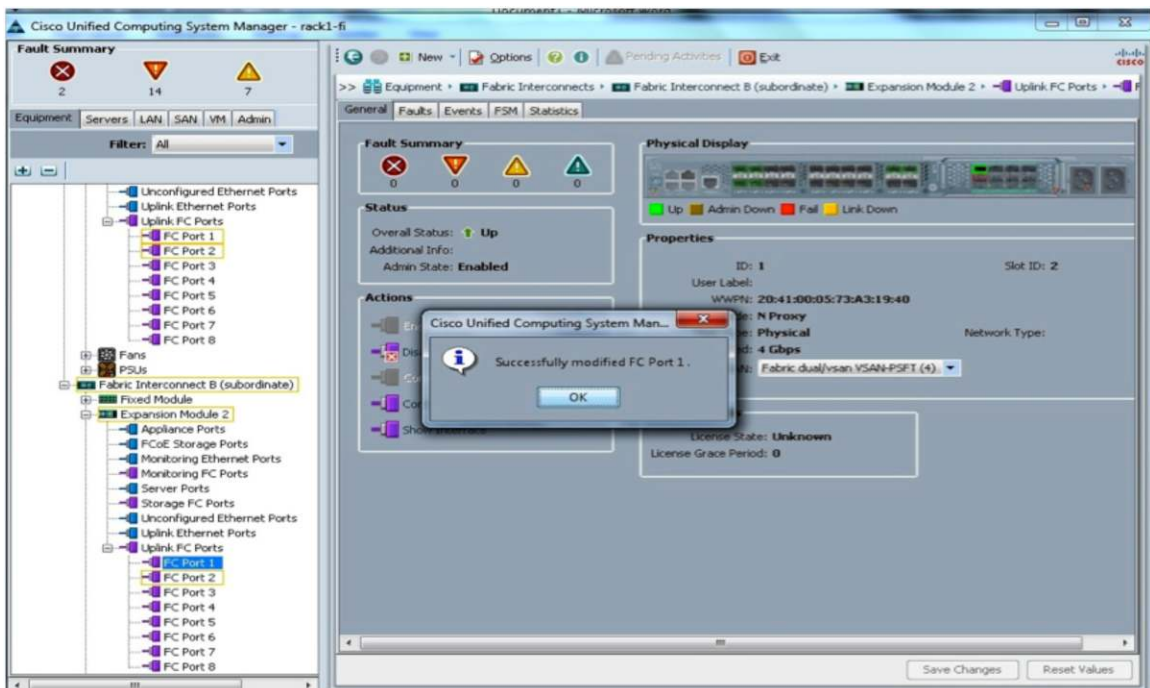
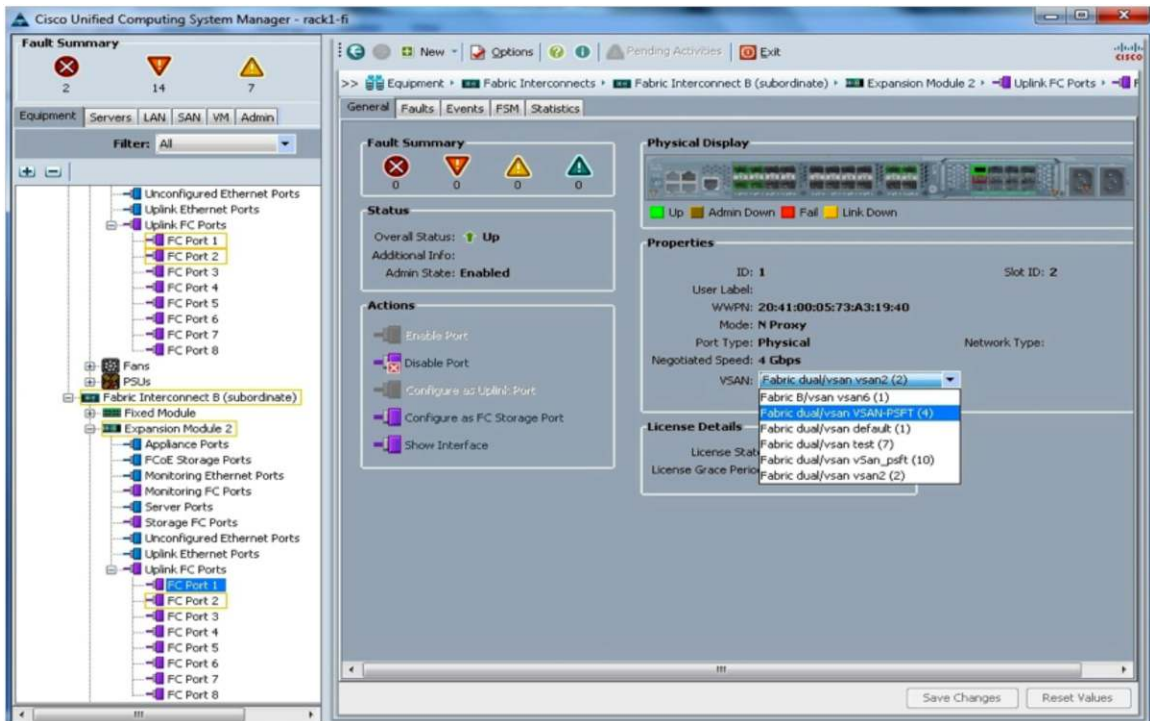


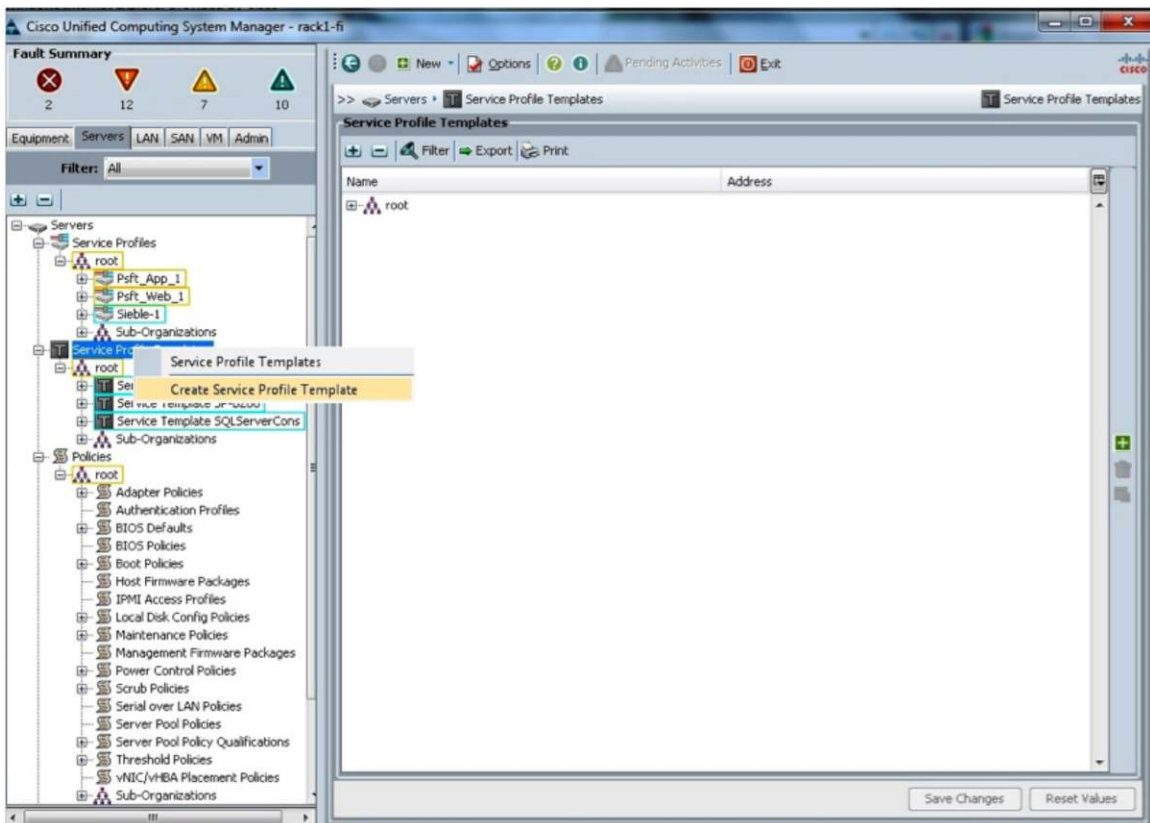
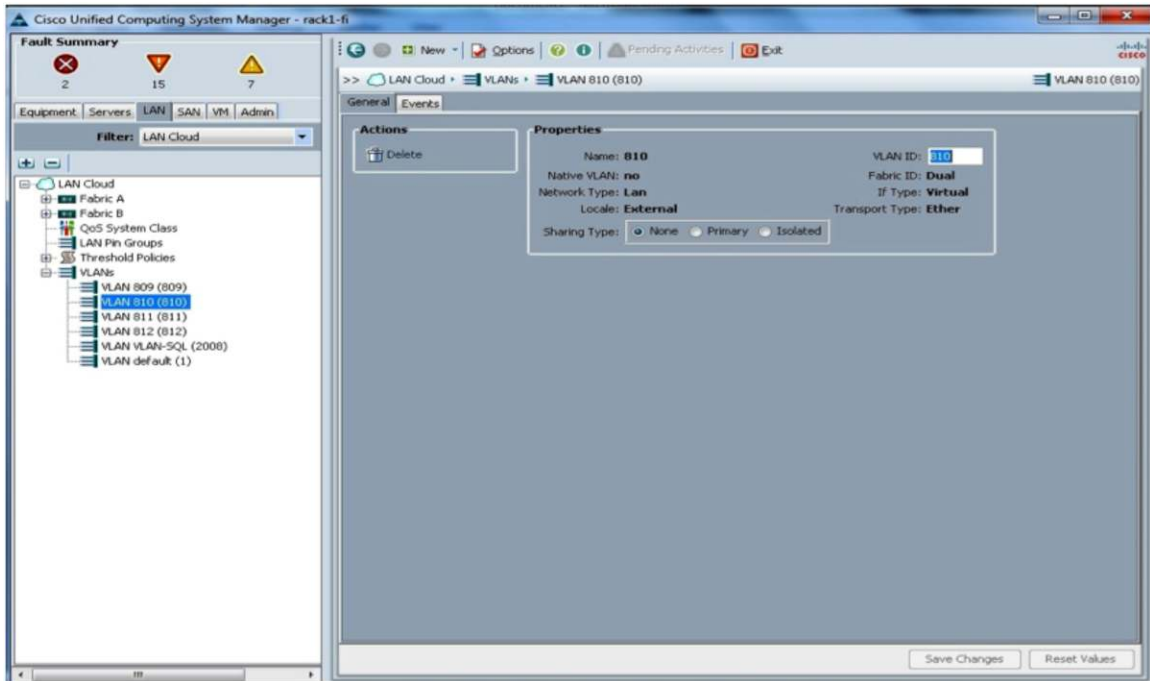


Get a free VSAN ID from the Cisco Nexus 5000 Series Switch before creating a new VSAN for Oracle PeopleSoft.





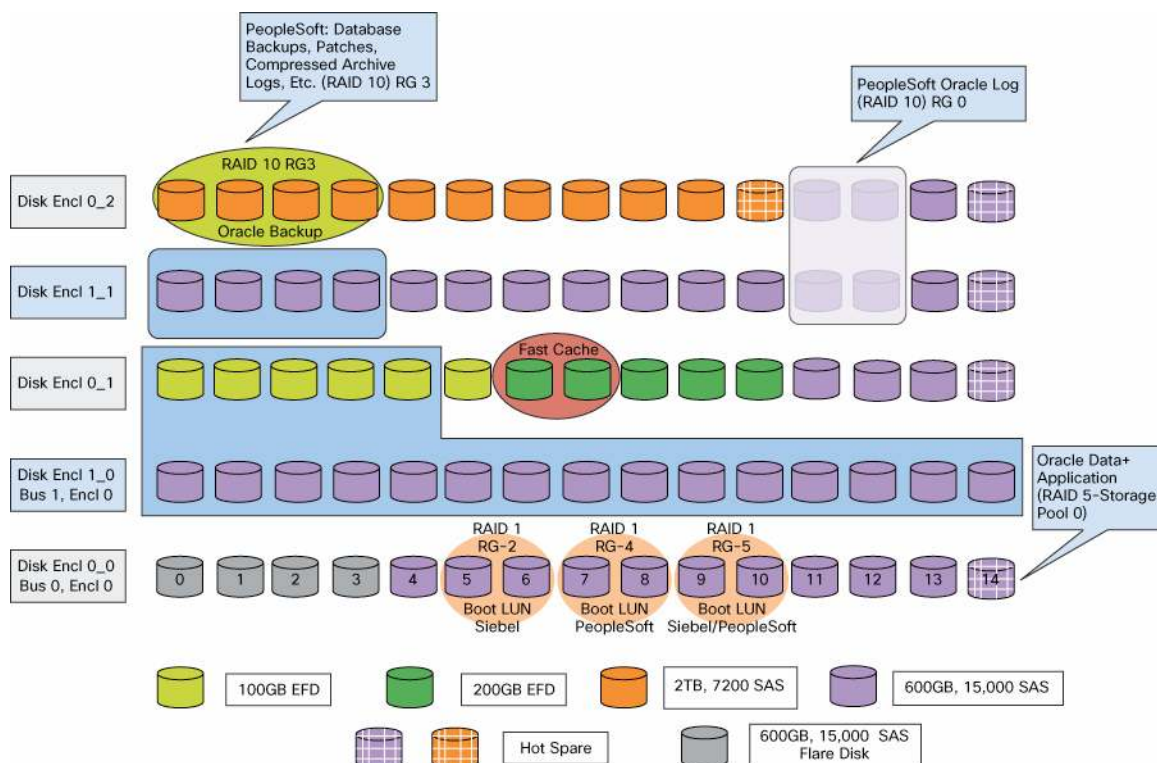




EMC VNX Storage Configuration

Figure 11 shows the disk layout of the EMC VNX5500 used in this Oracle PeopleSoft use case.

Figure 10. EMC VNX Disc Layout



Configuring Multipathing with EMC PowerPath/VE

EMC PowerPath/VE is host-based software that provides multipathing capability to help ensure QoS for VMware vSphere users by delivering business continuity and availability as well as performance to meet SLAs. EMC PowerPath/VE automates data path use in dynamic VMware virtualized environments to provide predictable and consistent information access while delivering investment protection with support for heterogeneous servers, operating systems, and storage.

Increasingly, deployments are using virtualization for consolidation and to enable scale-out of mission-critical applications. EMC PowerPath/VE manages the complexity of large virtual environments, which may contain hundreds or thousands of independent virtual machines running computation-intensive I/O applications. To manually configure this type of scenario, making sure that all the virtual machines get the I/O response time needed, is very difficult and time consuming. If other variables, such as VMware vMotion and the need for high availability in the VMware environment are requirements, any assumption about which I/O streams will be sharing which channels are invalidated. EMC PowerPath/VE manages this complexity, adjusting the I/O path use to address changes in I/O loads coming from the virtual machines. You simply assign all devices to all paths, and EMC PowerPath/VE then does the work, optimizing overall I/O performance for the virtual environment.

The main benefits of using EMC PowerPath/VE in a VMware vSphere 5 environment include the capability to manage these large environments and increase performance by helping ensure optimal use of resources, while also providing high availability, automating I/O path failover, and enabling recovery in the event of a path failure.

For additional information about EMC PowerPath/VE, see

<http://www.emc.com/collateral/software/data-sheet/1751-powerpath-ve-multipathing-ds.pdf>.

Configuring LUNs with EMC Unisphere

Create RAID Group and Boot LUNs (RAID 1)

The screenshot displays the EMC Unisphere web interface. The main content area is divided into two sections: 'RAID Groups' and 'LUNs'.

RAID Groups Section:

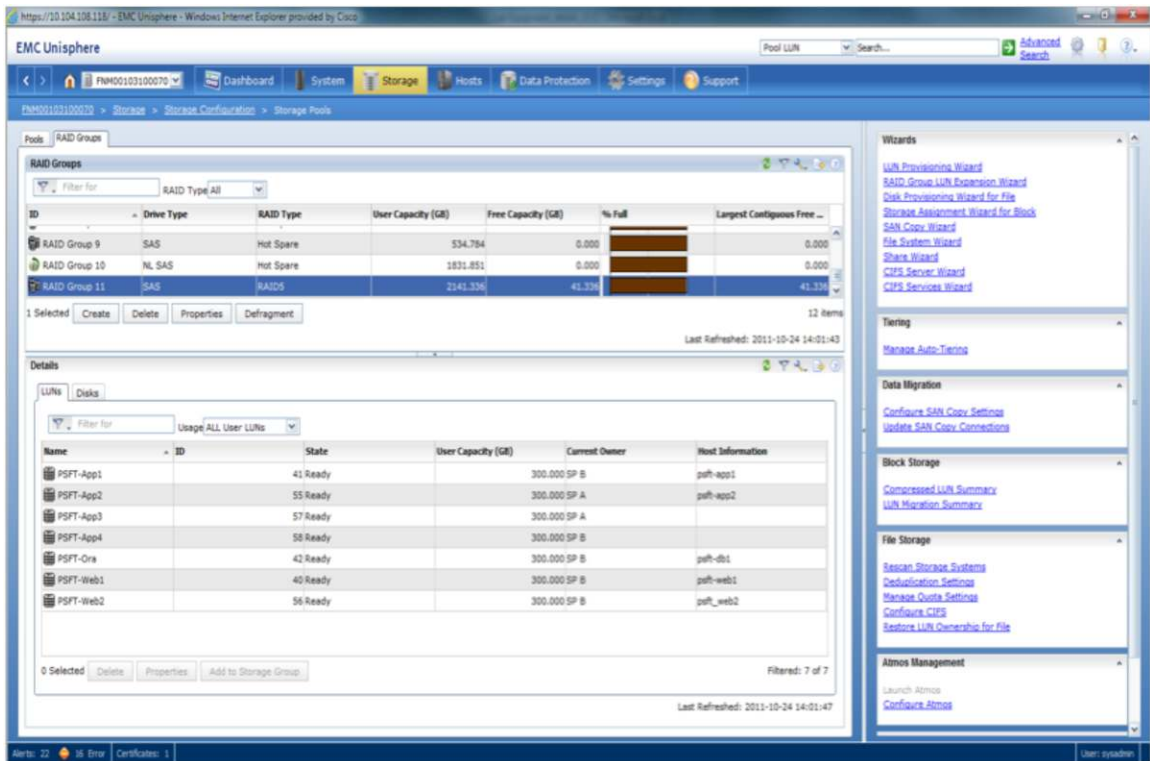
ID	Drive Type	RAID Type	User Capacity (GB)	Free Capacity (GB)	% Full	Largest Configured Free...
RAID Group 4	SAS	RAID1	534.784	54.784		54.784
RAID Group 5	SAS	RAID1	534.784	234.784		234.784
RAID Group 6	SAS	Hot Spare	534.784	0.000		0.000

LUNs Section:

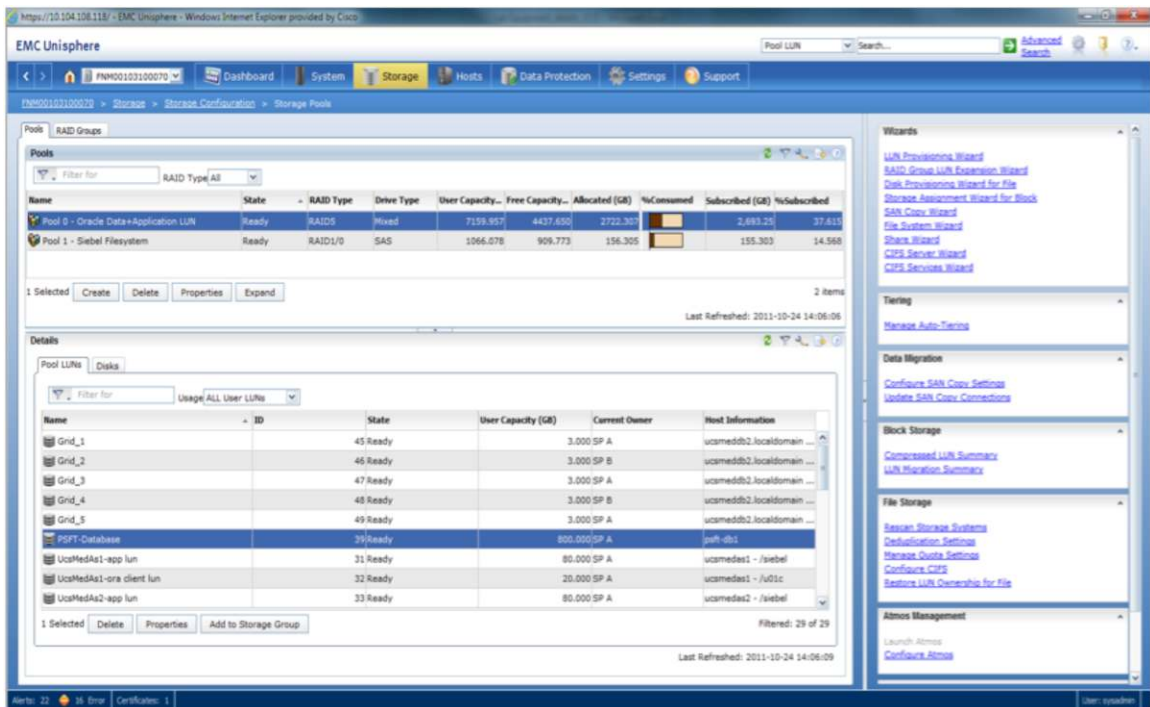
Name	ID	State	User Capacity (GB)	Current Owner	Host Information
PSFT_BOOT_APP1	2	Ready	60.000 SP B		psft-app1
PSFT_BOOT_APP2	3	Ready	60.000 SP A		psft-app2
PSFT_BOOT_APP3	4	Ready	60.000 SP B		
PSFT_BOOT_APP4	5	Ready	60.000 SP A		
PSFT_BOOT_DB1	8	Ready	60.000 SP B		psft-db1
PSFT_BOOT_DB2	9	Ready	60.000 SP A		
PSFT_BOOT_WEB1	6	Ready	60.000 SP B		psft-web1
PSFT_BOOT_WEB2	7	Ready	60.000 SP A		psft-web2

The right-hand sidebar contains several expandable sections: 'Wizards' (with links like LUN Provisioning Wizard, RAID Group Expansion Wizard, etc.), 'Tiering' (Manage Auto-Tiering), 'Data Migration' (Configure SAN Copy Settings, etc.), 'Block Storage' (Compressed LUN Summary, etc.), 'File Storage' (Rescan Storage Systems, etc.), and 'Alerts Management' (Launch Alerts, Configure Alerts).

Create Raid Groups for Oracle Application Binaries



Create a Storage Pool for the PeopleSoft (PSFT) Database (RAID5)



Create Storage Group and Attach Hosts

https://10.104.108.111/ EMC Unisphere - Windows Internet Explorer provided by Cisco

EMC Unisphere

Post Log Search Advanced Search

Dashboard System Storage **Hosts** Data Protection Settings Support

10.104.108.111 / Hosts > Storage Groups

Storage Groups

Filter for

Storage Group Name	IP Address
PSPT_App1	10.76.96.45:25:02:ED:11:AF:0C:00:60:16:36:D6:88
PSPT_App2	C6:88:39:E2:25:02:ED:11:AF:0C:00:60:16:36:D6:88
PSPT_App3	D2:02:5E:F7:25:02:ED:11:AF:0C:00:60:16:36:D6:88
PSPT_App4	28:89:9B:02:26:D2:ED:11:AF:0C:00:60:16:36:D6:88
PSPT_DB1	30:9E:56:AD:26:D2:ED:11:AF:0C:00:60:16:36:D6:88
PSPT_DB2	3C:3D:0E:88:26:D2:ED:11:AF:0C:00:60:16:36:D6:88
PSPT_Web1	94:06:77:86:26:D2:ED:11:AF:0C:00:60:16:36:D6:88
PSPT_Web2	8E:D7:1E:96:26:D2:ED:11:AF:0C:00:60:16:36:D6:88

1 Selected Create Delete Properties Connect LUNs Connect Hosts 21 Items

Last Refreshed: 2011-10-24 14:08:03

Details

Hosts LUNs SAN Copy Connections Snapshot LUNs File Server Private Storage

Filter for

Name	IP Address
psft-app1	10.104.111.67

0 Selected 1 Item

Last Refreshed: 2011-10-24 14:09:32

Wizards

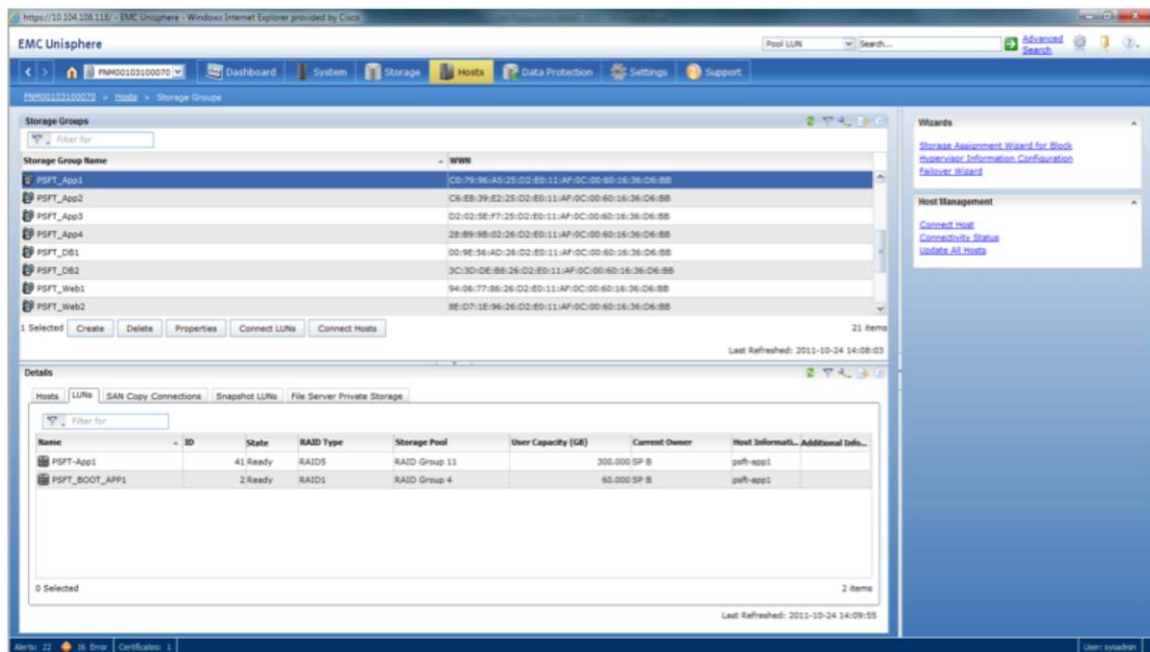
- Storage Assignment Wizard for Block
- Hosts/Volume Information Configuration
- Fallover Wizard

Host Management

- Connect Host
- Connectivity Status
- Update All Hosts

Hosts: 22 16 Error Certificates: 1 User: xssadmin

Create Storage Group and Attach LUNs



Configuring the Cisco Nexus Switch

Cisco Nexus switches are connected to the blade chassis with the I/O modules (2 x 4 cables) brought out and connected to the switch. From the fabric interconnect, the FCoE cables are drawn out and patched to the Cisco Nexus 5000 Series CNA switch. The Cisco Nexus 5000 Series Switch is also connected to EMC VNX. The uplink to the external world is from the Cisco Nexus 5000 Series Switch.

Creating the Zone and Zoneset

Log on to the Cisco Nexus 5000 Series Switch.

Log on to the Cisco UCS Manager (Capitola).

List the WWPN that appears in the Cisco Nexus 5000 Series database.

VSAN 4 is the zone in which the Oracle PeopleSoft servers are accommodated.

rk4-n5k8-a# sh flogi database

```
-----
INTERFACE  VSAN    FCID          PORT NAME          NODE NAME
-----
fc1/21     4       0x4203ef      50:06:01:6d:3e:a0:05:68 50:06:01:60:be:a0:05:6 - VNx to N5K
fc1/22     4       0x4202ef      50:06:01:65:3e:a0:05:68 50:06:01:60:be:a0:05:6 - VNx to N5K
fc1/23     4       0x42000e      20:43:00:05:73:a2:c2:80 20:04:00:05:73:a2:c2:8 - N5K to FI
fc1/23     4       0x42000f      20:00:00:25:b5:00:00:0c 20:00:00:25:b5:00:00:0 - N5K to FI
fc1/23     4       0x420011      20:01:00:25:b5:00:00:06 20:00:00:25:b5:00:00:1 - N5K to FI
fc1/23     4       0x420012      20:00:00:25:b5:00:00:0e 20:00:00:25:b5:00:00:0 - N5K to FI
fc1/24     4       0x42000d      20:42:00:05:73:a2:c2:80 20:04:00:05:73:a2:c2:8 - N5K to FI
fc1/24     4       0x420010      20:00:00:25:b5:00:00:17 20:00:00:25:b5:00:00:0 - N5K to FI
fc1/24     4       0x420013      20:00:00:25:b5:00:00:09 20:00:00:25:b5:00:00:0 - N5K to FI
-----
```

```

fc1/24    4    0x420014    20:01:00:25:b5:00:00:07    20:00:00:25:b5:00:00:1    - N5K to FI
fc1/27    2    0x4405ef    50:06:01:6f:3e:a0:05:68    50:06:01:60:be:a0:05:6
fc1/28    2    0x4403ef    50:06:01:66:3e:a0:05:68    50:06:01:60:be:a0:05:6

```

Create a new volume to install Oracle Software:

```
rk4-n5k8-a# conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```

rk4-n5k8-a(config)# zone name psft_appl_data_vhba0 vsan 4
rk4-n5k8-a(config-zone)# member pwnn 20:00:00:25:b5:00:00:09
rk4-n5k8-a(config-zone)# member pwnn 50:06:01:6d:3e:a0:05:68
rk4-n5k8-a(config-zone)# member pwnn 50:06:01:65:3e:a0:05:68
rk4-n5k8-a(config-zone)# exit

```

Show the zone names of the zoneset:

```

rk4-n5k8-a(config)# sh zone
zone                                zone-attribute-group    zoneset
rk4-n5k8-a(config)# sh zoneset active vsan 4
zoneset name psft_zoneset vsan 4
  zone name psft_web1_vhba0 vsan 4
    * fcid 0x4203ef [pwnn 50:06:01:6d:3e:a0:05:68]
    * fcid 0x4202ef [pwnn 50:06:01:65:3e:a0:05:68]
    * fcid 0x42000f [pwnn 20:00:00:25:b5:00:00:0c]

  zone name psft_appl_vhba0 vsan 4
    * fcid 0x4203ef [pwnn 50:06:01:6d:3e:a0:05:68]
    * fcid 0x4202ef [pwnn 50:06:01:65:3e:a0:05:68]
    * fcid 0x420010 [pwnn 20:00:00:25:b5:00:00:17]

  zone name psft_db1_vhba0 vsan 4
    * fcid 0x4203ef [pwnn 50:06:01:6d:3e:a0:05:68]
    * fcid 0x4202ef [pwnn 50:06:01:65:3e:a0:05:68]
    * fcid 0x420011 [pwnn 20:01:00:25:b5:00:00:06]

```

Add a new zone name to the zoneset:

```

rk4-n5k8-a(config)# zoneset name psft_zoneset vsan 4
rk4-n5k8-a(config-zoneset)# member psft_appl_data_vhba0
rk4-n5k8-a(config-zoneset)# zoneset activate name psft_zoneset vsan 4
Zoneset activation initiated. check zone status

```

Discovering LUNs

Discovering All the Attached Disks on the Server

```
login as: root
root@10.104.111.71's password:
Last login: Mon Sep  5 14:10:51 2011 from dhcp-72-163-185-123.cisco.com
```

```
[root@psft-dbl ~]# echo "1" > /sys/class/fc_host/host0/issue_lip
[root@psft-dbl ~]# echo "1" > /sys/class/fc_host/host1/issue_lip
[root@psft-dbl ~]# echo "1" > /sys/class/fc_host/host2/issue_lip
[root@psft-dbl ~]# echo "1" > /sys/class/fc_host/host3/issue_lip
```

Creating a File System Partition on the Oracle PeopleSoft Servers

List the connected hard disks and their partitions:

```
[root@psft-dbl ~]# fdisk -l
```

Partition the disk with fdisk:

Enter the following in the order shown:

```
(n > p > 1 > default value > default value > p > w)
[root@psft-dbl ~]# fdisk /dev/sdk
```

Device contains neither a valid DOS partition table, nor Sun, SGI or OSF disk label

Building a new DOS disk label. Changes will remain in memory only, until it is decided to write them. After that, of course, the previous content will not be recoverable.

The number of cylinders for this disk is set to 39162.

There is nothing wrong with that, but this is larger than 1024, and could in certain setups cause problems with:

- Software that runs at boot time (such as old versions of LILO)
- Booting and partitioning software from other OSs (such as DOS FDISK or OS/2 FDISK)

Warning: Invalid flag 0x0000 of partition table 4 will be corrected by w(rite).

```
Command (m for help): n
Command action
  e   extended
  p   primary partition (1-4)
p
Partition number (1-4): 1
First cylinder (1-39162, default 1):
Using default value 1
Last cylinder or +size or +sizeM or +sizeK (1-39162, default 39162):
Using default value 39162

Command (m for help): w
The partition table has been altered!
Calling ioctl() to re-read partition table.
Syncing disks.
```

Create a file system

After creating the partition is created, a filesystem (format) can be overlaid using the mkfs command as shown here.

```
[root@psft-dbl ~]# mkfs -t ext3 /dev/sdk
```

Add the filesystem created to fstab

```
[root@psft-dbl ~]# vi /etc/fstab
```

Add	"/dev/sdk	/db2-data	ext3 defaults	0 0"
LABEL=	/		ext3	defaults 1 1
LABEL=/boot	/boot		ext3	defaults 1 2
devpts	/dev/pts	devpts	gid=5,mode=620	0 0
/dev/sdk	/db2-data	ext3	defaults	0 0
tmpfs	/dev/shm	tmpfs	defaults	0 0
proc	/proc	proc	defaults	0 0
sysfs	/sys	sysfs	defaults	0 0

Create a directory

```
[root@psft-dbl ~]# mkdir /db2-data
```

Mount the directory

```
[root@psft-dbl ~]# mount /db2-data
```

```
[root@psft-web1 host4]# mkfs -t ext3 /dev/sdk
```

```
mke2fs 1.39 (29-May-2006)
```

```
Filesystem label=
```

```
OS type: Linux
```

```
Block size=4096 (log=2)
```

```
Fragment size=4096 (log=2)
```

```
39321600 inodes, 78642183 blocks
```

```
3932109 blocks (5.00%) reserved for the super user
```

```
First data block=0
```

```
Maximum filesystem blocks=4294967296
```

```
2400 block groups
```

```
32768 blocks per group, 32768 fragments per group
```

```
16384 inodes per group
```

```
Superblock backups stored on blocks:
```

```
32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,  
4096000, 7962624, 11239424, 20480000, 23887872, 71663616
```

```
Writing inode tables: done
```

```
Creating journal (32768 blocks): done
```

```
Writing superblocks and filesystem accounting information: done
```

This filesystem will be automatically checked every 27 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.

Remember:

Now > vi /etc/fstab

Add "/dev/sdc1 /db2-data ext3 defaults 0 0" in fstab

Then > mkdir /db2-data

Then > mount /db2-data

Installation of Oracle PeopleSoft on Cisco UCS

An Oracle PeopleSoft Enterprise Server requires creation of a standard UNIX system user account: for example, **psoft**. This account must be available on each Oracle PeopleSoft server in your enterprise under which Oracle PeopleSoft processes and components operate. Use the following guidelines to create the Oracle PeopleSoft service owner account:

- The Oracle PeopleSoft service owner account must be defined or available on each applicable server: on each application server, on each web server, and on each process scheduler.
- The Oracle PeopleSoft owner account password must not require a change on the next logon and must be set so that it does not expire.
- The Oracle PeopleSoft owner account name or password cannot contain any spaces.

Prerequisites

- A root user and a nonroot user (psoft) are needed to perform any installation tasks on the Linux devices.
- Root user credentials are required to create the required Oracle PeopleSoft or Oracle users.
- Required file systems must be configured to install Oracle Tuxedo, WebLogic, PeopleTools, and Database.
- Use the Oracle PeopleSoft certification matrix to identify the required software and versions.
- All the required software must be downloaded.
- Network connectivity must be established between all the devices involved.
- JRE Version 1.6.0_20 must be installed on each server on which Oracle PeopleSoft components will be installed.
- Oracle database software must be installed on the device that will host the Oracle PeopleSoft database.
- The Oracle client must be installed on all devices that will host Oracle PeopleSoft servers.
- Database connectivity must be established between devices that will host Oracle PeopleSoft servers and the Oracle server.
- Set umask to **027** on the installation directory.

Creating an Oracle PeopleSoft Service Account

The Oracle PeopleSoft Enterprise Server requires creation of a standard UNIX system user account: for example, **psoft**. This account must be available on each Oracle PeopleSoft server in your enterprise under which Oracle PeopleSoft processes and components operate. Use the following guidelines to create the Oracle PeopleSoft service owner account:

- The Oracle PeopleSoft service owner account must be defined or available on each applicable server: on each application server, on each web server, and on each process scheduler.
- The Oracle PeopleSoft owner account password must not require a change on the next logon and must be set so that it does not expire.
- The Oracle PeopleSoft owner account name or password cannot contain any spaces.

General Installation Requirements

The following general requirements must be met before Oracle PeopleSoft Enterprise Server is installed:

- Choose a load-balancing strategy.
- Make sure that the disk space is sufficient for the installation.
- Make sure that the database server software is installed on the Oracle PeopleSoft database server.
- Make sure that the database client software is installed in other Oracle PeopleSoft servers such as application servers and web servers.
- Install database server and client prior to installing the Oracle PeopleSoft server components as required.
- Install all the third-party software required for Oracle PeopleSoft (JRE, JDK, etc.).
- Create directories for the Oracle PeopleSoft software and PeopleSoft file system on the Linux machine.
- Make sure that enough temporary disk space is available for the installers and wizards.
- If you are installing Oracle PeopleSoft products in GUI mode, set the **DISPLAY** variable to display the Java Installer user interface on the machine.
- If you are installing in console mode, specify the **=-console** parameter during the installation procedure.

Installation Requirements Specific to UNIX and Linux

- Installation can be performed either as root or as a nonroot user. In most cases, installation should be performed by a nonroot user, for simpler administration and maintenance.
- If the Oracle PeopleSoft application server is installed by root, then only root can stop and start the server. To avoid this requirement, an account other than root that has the authorization to install can be used. All future patch releases must be installed as the same user who installed the base installation being patched.
- If the web server is installed by the root user, then only root can stop and start the server. To avoid this requirement, use an account other than root that has the authorization to install. All future patch releases must be installed as the same user who installed the base installation being patched.
- Use VNC Viewer, xterm, or Xmanager, which is third-party software, or remote access to the Linux machine to install Oracle PeopleSoft products in GUI mode.
- Installation can be performed in console mode by specifying the parameter **mode=-console** during the installation.
- Set the user profiles and environment variables for Oracle and Oracle PeopleSoft.

Oracle PeopleSoft Web Server Installation

- Install JDK or jrockit jrockit-jdk1.6.0_26-R28.1.4-4.0.1 on the web server before installing the Oracle WebLogic server.
- Install Oracle WebLogic 10.3.4.0 (64-bit mode) on the web server.
- Install Oracle PeopleTools 8.51 on the web server.
- Install Oracle PeopleTools Patch 8.51.11 on the web server.

Note: Refer to **Appendix A** for a complete Oracle PeopleSoft web server installation listing.

Oracle PeopleSoft Application Server Installation

- Install Oracle Client 11.2.0.10 on the application server.
- Install Oracle Tuxedo 10.3.0.0 on the application server.
- Install Oracle Tuxedo Patch RP065 on the application server.

-
- Install Oracle PeopleTools 8.51 on the application server.
 - Install Oracle PeopleTools Patch 8.51.11 on the application server.
 - Install Oracle PeopleSoft HRMS 9.1 Feature Pack December 2010 on the application server.

Note: Refer to **Appendix B** for a complete Oracle PeopleSoft application server Installation listing.

Oracle PeopleSoft Database Server Installation

- Install Oracle Server 11.2.0.1.0 binaries on the database server.
- Install Oracle Client 11.2.0.10 on the database server.
- Install Oracle Tuxedo 10.3.0.0 on the database server.
- Install Oracle Tuxedo Patch RP065 on the database server.
- Install Oracle PeopleTools 8.51 on the database server.
- Install Oracle PeopleTools Patch 8.51.11 on the database server.
- Install Oracle PeopleSoft HRMS 9.1 Feature Pack December 2010 on the database server.
- Install Micro Focus Server Express COBOL compiler 5.1wp4

Note: Refer to **Appendix C** for a complete Oracle PeopleSoft database server Installation listing.

Oracle PeopleSoft Installation Port Numbers

The following port numbers are used for the workstation server listener (WSL), Oracle Jolt server listener (JSL), HTTP, and other ports:

- WSL: 7700
- JSL: 9700
- HTTP: 8700
- HTTPS: 443
- JRAD: 9100
- PSDBGSRV: 9500
- SMTP: 25

Appendix A: Oracle PeopleSoft Web Server Installation

Oracle JRockit Installation on Web Server

Log in to the Oracle PeopleSoft web server as psoft and follow the installation procedure shown here.

Note: Oracle JRockit installation was performed in console mode. The following listing shows the procedures and commands captured during the Oracle JRockit installation on the web server.

Download the jrockit28.1.4 software from Oracle My Support.

- Choose the file p12706519_2814_Linux-x86-64.zip.
- Transfer the file to the software location of the web server: /u01/softwares.
- Create a directory: /u01/bea/jrockit28.1.4.
- Unzip the software. Unzipping will extract all the files and folders into the specified directory.

The directory structure after the installation of Oracle JRockit is shown here.

```
[psft@psft-web1 jrockit-jdk1.6.0_26]$ pwd
/u01/psft/bea/jrockit28.1.4/jrockit-jdk1.6.0_26
[psft@psft-web1 jrockit-jdk1.6.0_26]$ ls -ltr
total 18984
-rwxrwxr-x 1 psft oinstall 19103658 May  4 10:42 src.zip
drwxrwxr-x 3 psft oinstall  4096 May  4 10:42 include
drwxrwxr-x 8 psft oinstall  4096 May  4 10:49 sample
drwxrwxr-x 9 psft oinstall  4096 May  4 10:49 demo
drwxrwxr-x 2 psft oinstall  4096 May  4 12:51 lib
-rwxrwxr-x 1 psft oinstall 239443 Jun 17 21:30 THIRDPARTYLICENSEREADME.txt
drwxrwxr-x 4 psft oinstall  4096 Jun 17 21:35 jre
drwxrwxr-x 2 psft oinstall  4096 Jun 25 21:30 bin
drwxr-xr-x 6 psft oinstall  4096 Oct 11 12:47 missioncontrol
```

No separate installation method or processes are needed for this installation of Oracle JRockit. Just unzipping the file in to a folder is all you need to do.

Oracle WebLogic Installation on Web Server

Log in to the Oracle PeopleSoft web server as psoft and follow the installation procedure shown here.

Note: Oracle WebLogic installation was performed in console mode. The following listing shows the procedures and commands captured during the Oracle WebLogic installation on the web server.

```
[psft@psft-web1 ~]$ export JAVA_HOME=/u01/psft/bea/jrockit28.1.4/jrockit-jdk1.6.0_26
[psft@psft-web1 ~]$ echo $JAVA_HOME
/u01/psft/bea/jrockit28.1.4/jrockit-jdk1.6.0_26
[psft@psft-web1 ~]$ cd /u01/softwares/weblogic1034-linuxx86-64/V24338-01
[psft@psft-web1 V24338-01]$ ls -ltr
-rwxrwxrwx 1 psft oinstall 1119969142 Sep  6 10:47 [00:32mwls1034_generic.jar
[psft@psft-web1 V24338-01]$ echo $JAVA_HOME
```

```

/u01/psoft/bea/jrockit28.1.4/jrockit-jdk1.6.0_26
[psoft@psft-web1 V24338-01]$ /u01/psoft/bea/jrockit28.1.4/jrockit-
jdk1.6.0_26/bin/java -d64 -jar ./wls1034_generic.jar -mode=console -
log=wls1034install7sep2011-in.log
Extracting
0%.....
.....100%
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Welcome:
-----
This installer will guide you through the installation of WebLogic 10.3.4.0.
Type "Next" or enter to proceed to the next prompt. If you want to change data
entered previously, type "Previous". You may quit the installer at any time by
typing "Exit".
Enter [Exit][Next]>
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Choose Middleware Home Directory:
-----
"Middleware Home" = [Enter new value or use default
"/home/psoft/Oracle/Middleware"]
Enter new Middleware Home OR [Exit][Previous][Next]> /u01/psoft/bea/weblogic1034
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Choose Middleware Home Directory:
-----
"Middleware Home" = [/u01/psoft/bea/weblogic1034]
Use above value or select another option:
1 - Enter new Middleware Home
2 - Change to default [/home/psoft/Oracle/Middleware]
Enter option number to select OR [Exit][Previous][Next]>
<----- Oracle Installer - WebLogic 10.3.4.0 ----->

Register for Security Updates:
-----
Provide your email address for security updates and to initiate configuration
manager.
1|Email:[]
2|Support Password:[]
3|Receive Security Update:[Yes]
Enter index number to select OR [Exit][Previous][Next]> 3
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Register for Security Updates:
-----
Provide your email address for security updates and to initiate configuration
manager.
"Receive Security Update:" = [Enter new value or use default "Yes"]
Enter [Yes][No]? No
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Register for Security Updates:
-----

```

```

Provide your email address for security updates and to initiate configuration
manager.
    "Receive Security Update:" = [Enter new value or use default "Yes"]
    ** Do you wish to bypass initiation of the configuration manager and
    ** remain uninformed of critical security issues in your configuration?
Enter [Yes][No]? Y
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Register for Security Updates:
-----

Provide your email address for security updates and to initiate configuration
manager.
    "Receive Security Update:" = [Enter new value or use default "Yes"]
    ** Valid value can be either Yes or No
Enter [Yes][No]? Yes
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Register for Security Updates:
-----

Provide your email address for security updates and to initiate configuration
manager.
    1|Email:[]
    2|Support Password:[]
    3|Receive Security Update:[No]
Enter index number to select OR [Exit][Previous][Next]>
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Register for Security Updates:
-----

Provide your email address for security updates and to initiate configuration
manager.
    1|Email:[]
    2|Support Password:[]
    3|Receive Security Update:[No]
Enter index number to select OR [Exit][Previous][Next]>
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Choose Install Type:
-----

Select the type of installation you wish to perform.

->1|Typical
    | Install the following product(s) and component(s):
    | - WebLogic Server
    | - Oracle Coherence
    2|Custom
    | Choose software products and components to install and perform optional
    | configuration.
Enter index number to select OR [Exit][Previous][Next]> 1

<----- Oracle Installer - WebLogic 10.3.4.0 ----->
JDK Selection (Any * indicates Oracle Supplied VM):

```

```

-----
JDK(s) chosen will be installed. Defaults will be used in script string-
substitution if installed.
  1|Add Local Jdk
  2|/u01/psoft/bea/jrockit28.1.4/jrockit-jdk1.6.0_26[x]
  *Estimated size of installation: 663.9 MB
Enter 1 to add or >= 2 to toggle selection OR [Exit][Previous][Next]>
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Choose Product Installation Directories:
-----
Middleware Home Directory: [/u01/psoft/bea/weblogic1034]
Product Installation Directories:
  1|WebLogic Server: [/u01/psoft/bea/weblogic1034/wlserver_10.3]
  2|Oracle Coherence: [/u01/psoft/bea/weblogic1034/coherence_3.6]
Enter index number to select OR [Exit][Previous][Next]>

<----- Oracle Installer - WebLogic 10.3.4.0 ----->
The following Products and JDKs will be installed:
-----
WebLogic Platform 10.3.4.0
|___WebLogic Server
|   |___Core Application Server
|   |___Administration Console
|   |___Configuration Wizard and Upgrade Framework
|   |___Web 2.0 HTTP Pub-Sub Server
|   |___WebLogic SCA
|   |___WebLogic JDBC Drivers
|   |___Third Party JDBC Drivers
|   |___WebLogic Server Clients
|   |___WebLogic Web Server Plugins
|   |___UDDI and Xquery Support
|   |___Evaluation Database
|___Oracle Coherence
|   |___Coherence Product Files
  *Estimated size of installation: 664.0 MB
Enter [Exit][Previous][Next]>

Sep 7, 2011 2:08:08 PM java.util.prefs.FileSystemPreferences$2 run
INFO: Created user preferences directory.
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Installing files..
0%          25%          50%          75%          100%
[-----|-----|-----|-----]
[*****]

Performing String Substitutions...
<----- Oracle Installer - WebLogic 10.3.4.0 ----->

```



```

Configuring OCM...
0%          25%          50%          75%          100%
[-----|-----|-----|-----]
[*****]
Creating Domains...
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Installation Complete
Congratulations! Installation is complete.
Press [Enter] to continue or type [Exit]>
<----- Oracle Installer - WebLogic 10.3.4.0 ----->
Clean up process in progress ...

```

Oracle PeopleTools 8.51 Installation on Web Server

Log in to the Oracle PeopleSoft web server as psoft and follow the installation procedure shown here.

Note: Oracle PeopleTools installation was performed in console mode. The following listing shows the procedure captured during the Oracle PeopleTools installation on the web server.

```

[psft@psft-web1 ~]$ cd /u01/software/PT851-CDS/cd1/Disk1/InstData
[psft@psft-web1 InstData]$ ls -ltr
total 1341968
-rwxrwxrwx 1 psoft oinstall 2459194 Apr 2 2009 emocmutl.jar
-rwxrwxrwx 1 psoft oinstall 37267075 Aug 29 2010 setup.exe
-rwxrwxrwx 1 psoft oinstall 216005302 Aug 29 2010 setup.aix
-rwxrwxrwx 1 psoft oinstall 97811126 Aug 29 2010 setup.hp
-rwxrwxrwx 1 psoft oinstall 54885046 Aug 29 2010 setup.linux
-rwxrwxrwx 1 psoft oinstall 149486262 Aug 29 2010 setup.linux
-rwxrwxrwx 1 psoft oinstall 118717110 Aug 29 2010 setup.hp-ia64
-rwxrwxrwx 1 psoft oinstall 574358435 Aug 29 2010 Resource1.zip
-rwxrwxrwx 1 psoft oinstall 118 Aug 29 2010 MediaId.properties
-rwxrwxrwx 1 psoft oinstall 121731766 Aug 29 2010 setup.zlinux
psft@psft-web1:/u01/software/PT851-CDS/cd1/Disk1/InstData
[psft@psft-web1 InstData]$ pwd
/u01/software/PT851-CDS/cd1/Disk1/InstData
[psft@psft-web1 InstData]$ ./setup.linux -i console
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...
Preparing CONSOLE Mode Installation...
=====
PeopleTools                                     (created with InstallAnywhere)
=====

```

```

Welcome
-----
InstallAnywhere will guide you through the installation of PeopleTools 8.51.
PRESS <ENTER> TO CONTINUE:
=====
    Please enter your PeopleSoft license code []: zm7ky3w41m044u863q67oke1ms7t1f2
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
    Please select the Oracle database character set:
        ->1- Non-Unicode Database
           2- Unicode Database
    To select an item enter its number, or 0 when you are finished [0] : 2

    Please select the Oracle database character set:
        1- Non-Unicode Database
        ->2- Unicode Database

    To select an item enter its number, or 0 when you are finished [0] :
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====

    For Oracle please select the products to install:
        ->1- PeopleSoft Application Server
        ->2- PeopleSoft Batch Server
        ->3- PeopleSoft Database Server
        ->4- PeopleSoft Web Server
    To select an item enter its number, or 0 when you are finished [0] :
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
    Please enter an installation location or press <ENTER> to accept the default
    (DEFAULT: /opt/PT8.51): /u01/psoft/pshome
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
    Provide your email address to be informed on security issues, install the
    product and initiate configuration manager. Easier for you if you use your My
    Oracle Support Email address/User Name. Visit
    http://www.oracle.com/support/policies.html for details
    Email address/ User Name (DEFAULT: ):
    You have not provided an email address
        Do you wish to remain uninformed of critical security issues in your
        configuration.          (Y/N): Y
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
        Please enter the hub machine name: [PSEMHUB]:
        Please enter the hub port number: [80]:
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====

```

Please select the features to install:

->1- PeopleTools

->2- PeopleTools System Database

To select an item enter its number, or 0 when you are finished [0] :

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

=====

Pre-Install Summary

Please review the following before continuing:

PeopleTools will be installed in the following location: /u01/psoft/pshome

with the following features:

PeopleTools

PeopleTools System Database

The following PeopleSoft Servers were selected by you:

PeopleSoft Application Server

PeopleSoft Batch Server

PeopleSoft Database Server

PeopleSoft Web Server

Database type: Oracle

Environment Hub Configuration:

Hub machine name: PSEMHUB

Hub port number: 80

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

=====

Installing...

[=====|=====|=====|=====]

[----- Insert New Media -----

Please insert Disk2 or type it's location.: /u01/software/PT851-CDS/cd2

-----|-----|-----|----- Insert New Media -----

Please insert Disk3 or type it's location.: /u01/software/PT851-CDS/cd3

-----]

=====

Installation Complete

Congratulations. PeopleTools has been successfully installed to:

/u01/psoft/pshome

PRESS <ENTER> TO EXIT THE INSTALLER:

Oracle PeopleTools 8.51.11 Patch Installation on Web Server

Log in to the Oracle PeopleSoft web server as psoft and follow the installation procedure shown here.

Note: Oracle PeopleTools patch installation was performed in console mode. The following listing shows the procedures and commands captured during the Oracle PeopleTools patch installation on the web server.

```
[psft@psft-web1 ~]$ cd /u01/software/85111-PATCH/cd85111/Disk1/InstData
```

```
[psft@psft-web1 InstData]$ ls -ltr
```

```
total 1383984
-rwxrwxrwx 1 psoft oinstall 2459194 Apr 2 2009 emocmutl.jar
-rwxrwxrwx 1 psoft oinstall 37170092 Jun 30 12:09 setup.exe
-rwxrwxrwx 1 psoft oinstall 215908880 Jun 30 12:09 setup.aix
-rwxrwxrwx 1 psoft oinstall 97714704 Jun 30 12:09 setup.hp
-rwxrwxrwx 1 psoft oinstall 54788624 Jun 30 12:09 setup.linux
-rwxrwxrwx 1 psoft oinstall 149389840 Jun 30 12:09 setup.linux
-rwxrwxrwx 1 psoft oinstall 118620688 Jun 30 12:09 setup.hp-ia64
-rwxrwxrwx 1 psoft oinstall 618007113 Jun 30 12:09 Resource1.zip
-rwxrwxrwx 1 psoft oinstall 118 Jun 30 12:09 MediaId.properties
-rwxrwxrwx 1 psoft oinstall 121635344 Jun 30 12:09 setup.zlinux
psoft@psft-web1 InstData1$ ./setup.linux -i console
```

Preparing to install...

Extracting the JRE from the installer archive...

Unpacking the JRE...

Extracting the installation resources from the installer archive...

Configuring the installer for this system's environment...

Launching installer...

Preparing CONSOLE Mode Installation...

```
=====
PeopleTools                                     (created with InstallAnywhere)
-----
```

```
=====
Welcome
-----
```

InstallAnywhere will guide you through the installation of PeopleTools 8.51.11.

PRESS <ENTER> TO CONTINUE:

```
=====
Please enter your PeopleSoft license code []: zm7ky3w41m044u863q67okelms7t1f2
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
```

Please select the Oracle database character set:

- >1- Non-Unicode Database
- 2- Unicode Database

To select an item enter its number, or 0 when you are finished [0] : 2

Please select the Oracle database character set:

- 1- Non-Unicode Database
- >2- Unicode Database

To select an item enter its number, or 0 when you are finished [0] :

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

```
=====
For Oracle please select the products to install:
```

- >1- PeopleSoft Application Server
- >2- PeopleSoft Batch Server
- >3- PeopleSoft Database Server
- >4- PeopleSoft Web Server

```

To select an item enter its number, or 0 when you are finished [0] : \
Please enter a value between 0 and 4
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please enter an installation location or press <ENTER> to accept the default
(DEFAULT: /opt/PT8.51.11): /u01/psoft/pshome
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Provide your email address to be informed on security issues, install the
product and initiate configuration manager. Easier for you if you use your My
Oracle Support Email address/User Name. Visit
http://www.oracle.com/support/policies.html for details
Email address/ User Name (DEFAULT: ):
You have not provided an email address
    Do you wish to remain uninformed of critical security issues in your
    configuration.          (Y/N): N
Provide your email address to be informed on security issues, install the
product and initiate configuration manager. Easier for you if you use your My
Oracle Support Email address/User Name. Visit
http://www.oracle.com/support/policies.html for details
Email address/ User Name (DEFAULT: ):
You have not provided an email address
    Do you wish to remain uninformed of critical security issues in your
    configuration.          (Y/N): Y
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the features to install:
->1- PeopleTools
->2- PeopleTools System Database
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Pre-Install Summary
Please review the following before continuing:
PeopleTools will be installed in the following location: /u01/psoft/pshome with
the following features:
PeopleTools
PeopleTools System Database
The following PeopleSoft Servers were selected by you:
PeopleSoft Application Server
PeopleSoft Batch Server
PeopleSoft Database Server
PeopleSoft Web Server
Database type: Oracle
Environment Hub Configuration:
Hub machine name:

```

Hub port number:

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

=====

Installing...

[=====|=====|=====|=====]

[-----|-----|-----|-----]

=====

Installation Complete

Congratulations. PeopleTools has been successfully installed to:

/u01/psoft/pshome

PRESS <ENTER> TO EXIT THE INSTALLER:

Appendix B: Oracle PeopleSoft Application Server Installation

Oracle Tuxedo Installation on Application Server

Log in to the Oracle PeopleSoft application server as psoft and follow the installation procedure shown here.

Note: Oracle Tuxedo installation was performed in console mode. The following listing shows the procedure captured during the Oracle Tuxedo installation on the application server.

```
[psft@psft-appl ~]$ export TUXDIR=/u01/psoft/boa/tuxedo10gR3
[psft@psft-appl ~]$ echo $TUXDIR
/u01/psoft/boa/tuxedo10gR3
[psft@psft-appl ~]$ cd /u01/softwares/Tuxedo10gR3-linux
[psft@psft-appl Tuxedo10gR3-linux]$ ls -ltr
total 83468
[psft@psft-appl Tuxedo10gR3-linux]$ ./tuxedo10gR3_64_Linux_01_x86.bin -i console
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...
Preparing CONSOLE Mode Installation...
=====
Choose Locale...
-----
->1- English
CHOOSE LOCALE BY NUMBER:
=====
Tuxedo 10gR3                      (created with InstallAnywhere by Macrovision)
-----
=====
Introduction
-----
InstallAnywhere will guide you through the Tuxedo 10gR3 installation.
It is strongly recommended that you quit all programs before continuing with this
installation.
Enter "next" to proceed to the next screen. Enter "back" to modify the previous
screen.
You may cancel this installation at any time by typing "quit".
WARNING: "Quitting" creates an incomplete Tuxedo 10gR3 installation. You must
re-install Tuxedo 10gR3. For more information, see "Preparing to Install the
Oracle Tuxedo System" in the Tuxedo 10gR3 Installation Guide.
PRESS <ENTER> TO CONTINUE:
=====
Choose Install Set
-----
Please choose the Install Set to be installed by this installer.
->1- Full Install
```



```

    2- Server Install
    3- Full Client Install
    4- Jolt Client Install
    5- ATMI Client Install
    6- CORBA Client Install
    7- Customize...
ENTER THE NUMBER FOR THE INSTALL SET, OR PRESS <ENTER> TO ACCEPT THE DEFAULT      :
=====
Choose Oracle Home
-----
    1- Create new Oracle Home
    2- Use existing Oracle Home
Enter a number:
Enter a number: 1
Specify a new Oracle Home directory: /u01/psoft/bea/tuxedo10gR3
=====
Choose Product Directory
-----
    1- Modify Current Selection (/u01/psoft/bea/tuxedo10gR3/tuxedo10gR3)
    2- Use Current Selection (/u01/psoft/bea/tuxedo10gR3/tuxedo10gR3)
Enter a number: 1
Specify Product Installation Directory: /u01/psoft/bea/tuxedo10gR3
Install Samples (Y/N): Y
    1- Modify Current Selection (/u01/psoft/bea/tuxedo10gR3)
    2- Use Current Selection (/u01/psoft/bea/tuxedo10gR3)
Enter a number: 2
Install Samples (Y/N): Y
=====
Pre-Installation Summary
-----
Please Review the Following Before Continuing:

Product Name:
    Tuxedo 10gR3
Install Folder:
    /u01/psoft/bea/tuxedo10gR3
Link Folder:
    /home/psoft
Disk Space Information (for Installation Target):
    Required: 195,536,693 bytes
    Available: 291,352,813,568 bytes
PRESS <ENTER> TO CONTINUE:
=====
Ready To Install
-----
InstallAnywhere is now ready to install Tuxedo 10gR3 onto your system at the
following location:

```

```

/u01/psoft/bea/tuxedo10gR3
PRESS <ENTER> TO INSTALL:
=====
Installing...
-----
[=====|=====|=====|=====]
[-----|-----|-----|-----]
=====
Configure tlisten Service
-----
Password:
Verify Password:
Password Accepted! Press "Enter" to continue.
=====
SSL Installation Choice.
-----
Would you like to install SSL Support?
->1- Yes
    2- No
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:
    : 2
=====
Installation Complete
-----
Congratulations. Tuxedo 10gR3 has been successfully installed to:
/u01/psoft/bea/tuxedo10gR3
PRESS <ENTER> TO EXIT THE INSTALLER:

```

Oracle Tuxedo Patch Installation on Application Server

Login to the Oracle PeopleSoft application server as psoft and follow the installation procedure shown here.

Note: Oracle Tuxedo patch installation was performed in console mode. The following listing shows the procedure captured during the Oracle Tuxedo patch installation on the application server.

```

[psft@psft-appl ~]$ export TUXDIR=/u01/psoft/bea/tuxedo10gR3
[psft@psft-appl ~]$ echo $TUXDIR
/u01/psoft/bea/tuxedo10gR3
[psft@psft-appl ~]$ echo $ORACLE_HOME
/u01/app/oracle/product/11.2.0/psft
[psft@psft-appl ~]$ cd /u01/software/Tuxedo10gr3-RP-linux-x86-64/p12746335_10300_Linux-x86-64/RP065
[psft@psft-appl RP065]$ ls -ltr
total 10772
-r-xr-xr-- 1 psoft oinstall    24347 Jul 23 10:54 uninstall
drwxr-xr-x 4 psoft oinstall    4096 Jul 23 10:54 udataobj
-rw-r--r-- 1 psoft oinstall    1360 Jul 23 10:54 README.txt
drwx----- 6 psoft oinstall    4096 Jul 23 10:54 locale

```

```

drwx----- 2 psoft oinstall      4096 Jul 23 10:54 lib
-r-xr-xr-- 1 psoft oinstall      38729 Jul 23 10:54 install
drwx----- 2 psoft oinstall      4096 Jul 23 10:54 bin
-rwxrwxrwx 1 psoft oinstall      4399 Sep  6 16:28 releasenotes.txt
-rwxrwxrwx 1 psoft oinstall     15715 Sep  6 16:28 README.html
-rwxrwxrwx 1 psoft oinstall      9566 Sep  6 16:28 patchlev
-rwxrwxrwx 1 psoft oinstall 10842803 Sep  6 16:28 RP065.tar.Z

[psft@psft-appl RP065]$ ./install
DIR=/u01/softwares/Tuxedo10gr3-RP-linux-x86-64/p12746335_10300_Linux-x86-64/RP065
rpreleasenote = SUSE LINUX Enterprise Server 10 (x86_64) x86 for AMD64, 64bits
Tuxedo
portreleasenotes= SUSE LINUX Enterprise Server 10 (x86_64) x86 for AMD64, 64bits
Tuxedo
Installing server and client files...

Enter owner for patch files:
psft
Enter group for patch files:
oinstall
The patch installation finished successfully.

```

Oracle PeopleTools 8.51 Installation on Application Server

Log in to the Oracle PeopleSoft application server as psoft and follow the installation procedure shown here.

Note: Oracle PeopleTools installation was performed in console mode. The following listing shows the procedure captured during the Oracle PeopleTools installation on the application server.

```

[psft@psft-appl ~]$ cd /u01/softwares/PT851-CDS/cdl/Disk1/InstData
[psft@psft-appl InstData]$ ls -ltr
total 1341968
-rwxrwxrwx 1 psoft oinstall  2459194 Apr  2  2009 emocmutl.jar
-rwxrwxrwx 1 psoft oinstall  37267075 Aug 29  2010 setup.exe
-rwxrwxrwx 1 psoft oinstall 216005302 Aug 29  2010 setup.aix
-rwxrwxrwx 1 psoft oinstall  97811126 Aug 29  2010 setup.hp
-rwxrwxrwx 1 psoft oinstall  54885046 Aug 29  2010 setup.linux
-rwxrwxrwx 1 psoft oinstall 149486262 Aug 29  2010 setup.linux
-rwxrwxrwx 1 psoft oinstall 118717110 Aug 29  2010 setup.hp-ia64
-rwxrwxrwx 1 psoft oinstall 574358435 Aug 29  2010 Resource1.zip
-rwxrwxrwx 1 psoft oinstall    118 Aug 29  2010 MediaId.properties
-rwxrwxrwx 1 psoft oinstall 121731766 Aug 29  2010 setup.zlinux

[psft@psft-appl InstData]$ ./setup.linux -i console
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...

```

```

Configuring the installer for this system's environment...
Launching installer...
Preparing CONSOLE Mode Installation...
=====
PeopleTools                                     (created with InstallAnywhere)
-----
=====
Welcome
-----
InstallAnywhere will guide you through the installation of PeopleTools 8.51.
PRESS <ENTER> TO CONTINUE:
=====
    Please enter your PeopleSoft license code []: zm7ky3w4lm044u863q67okelms7t1f2
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
    Please select the Oracle database character set:
        ->1- Non-Unicode Database
           2- Unicode Database
    To select an item enter its number, or 0 when you are finished [0] : 2
    Please select the Oracle database character set:
        1- Non-Unicode Database
        ->2- Unicode Database
    To select an item enter its number, or 0 when you are finished [0] :
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
    For Oracle please select the products to install:
        ->1- PeopleSoft Application Server
        ->2- PeopleSoft Batch Server
        ->3- PeopleSoft Database Server
        ->4- PeopleSoft Web Server
    To select an item enter its number, or 0 when you are finished [0] :
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
    Please enter an installation location or press <ENTER> to accept the default
    (DEFAULT: /opt/PT8.51): /u01/psoft/pshome
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
    Provide your email address to be informed on security issues, install the
    product and initiate configuration manager. Easier for you if you use your My
    Oracle Support Email address/User Name. Visit
    http://www.oracle.com/support/policies.html for details
    Email address/ User Name (DEFAULT: ):
    You have not provided an email address
        Do you wish to remain uninformed of critical security issues in your
        configuration.          (Y/N): Y
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====

```

```

Please enter the hub machine name: [PSEMHUB]:
Please enter the hub port number: [80]:
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the features to install:
->1- PeopleTools
->2- PeopleTools System Database
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Pre-Install Summary
Please review the following before continuing:
PeopleTools will be installed in the following location: /u01/psoft/pshome
with the following features:
PeopleTools
PeopleTools System Database
The following PeopleSoft Servers were selected by you:
PeopleSoft Application Server
PeopleSoft Batch Server
PeopleSoft Database Server
PeopleSoft Web Server
Database type: Oracle
Environment Hub Configuration:
Hub machine name: PSEMHUB
Hub port number: 80
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Installing...
-----
[=====|=====|=====|=====]
[----- Insert New Media -----]
Please insert Disk2 or type it's location.: /u01/software/PT851-CDS/cd2
-----|-----|-----|----- Insert New Media -----
Please insert Disk3 or type it's location.: /u01/software/PT851-CDS/cd3
-----]
=====
Installation Complete
-----
Congratulations. PeopleTools has been successfully installed to:
/u01/psoft/pshome
PRESS <ENTER> TO EXIT THE INSTALLER:

```

Oracle PeopleTools 8.51.11 Patch Installation on Application Server

Log in to the Oracle PeopleSoft application server as psoft and follow the installation procedure shown here.

Note: Oracle PeopleTools patch installation was performed in console mode. The following listing shows the procedure captured during the Oracle PeopleTools patch installation on the application server.

```
[psoft@psft-appl ~]$ cd /u01/softwares/85111-PATCH/cd85111/Disk1/InstData
[psoft@psft-appl InstData]$ ls -ltr
total 1383984
-rwxrwxrwx 1 psoft oinstall 2459194 Apr 2 2009 emocmutl.jar
-rwxrwxrwx 1 psoft oinstall 37170092 Jun 30 12:09 setup.exe
-rwxrwxrwx 1 psoft oinstall 215908880 Jun 30 12:09 setup.aix
-rwxrwxrwx 1 psoft oinstall 97714704 Jun 30 12:09 setup.hp
-rwxrwxrwx 1 psoft oinstall 54788624 Jun 30 12:09 setup.linux
-rwxrwxrwx 1 psoft oinstall 149389840 Jun 30 12:09 setup.linux
-rwxrwxrwx 1 psoft oinstall 118620688 Jun 30 12:09 setup.hp-ia64
-rwxrwxrwx 1 psoft oinstall 618007113 Jun 30 12:09 Resource1.zip
-rwxrwxrwx 1 psoft oinstall 118 Jun 30 12:09 MediaId.properties
-rwxrwxrwx 1 psoft oinstall 121635344 Jun 30 12:09 setup.zlinux

[psoft@psft-appl InstData]$ ./setup.linux -i console
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Preparing CONSOLE Mode Installation...
=====
PeopleTools                                     (created with InstallAnywhere)
-----
=====
Welcome
-----
InstallAnywhere will guide you through the installation of PeopleTools 8.51.11.
PRESS <ENTER> TO CONTINUE:
=====
Please enter your PeopleSoft license code []: zm7ky3w41m044u863q67okelms7t1f2
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the Oracle database character set:
->1- Non-Unicode Database
2- Unicode Database
To select an item enter its number, or 0 when you are finished [0] : 2
Please select the Oracle database character set:
1- Non-Unicode Database
->2- Unicode Database
```

```

To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
For Oracle please select the products to install:
->1- PeopleSoft Application Server
->2- PeopleSoft Batch Server
->3- PeopleSoft Database Server
->4- PeopleSoft Web Server
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please enter an installation location or press <ENTER> to accept the default
(DEFAULT: /opt/PT8.51.11): /u01/psoft/pshome
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Provide your email address to be informed on security issues, install the
product and initiate configuration manager. Easier for you if you use your My
Oracle Support Email address/User Name. Visit
http://www.oracle.com/support/policies.html for details
Email address/ User Name (DEFAULT: ):
You have not provided an email address
Do you wish to remain uninformed of critical security issues in your
configuration. (Y/N): Y
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the features to install:
->1- PeopleTools
->2- PeopleTools System Database
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Pre-Install Summary
Please review the following before continuing:
PeopleTools will be installed in the following location: /u01/psoft/pshome with
the following features:
PeopleTools
PeopleTools System Database
The following PeopleSoft Servers were selected by you:
PeopleSoft Application Server
PeopleSoft Batch Server
PeopleSoft Database Server
PeopleSoft Web Server
Database type: Oracle
Environment Hub Configuration:
Hub machine name:
Hub port number:
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

```



```

=====
Installing...
-----
[=====|=====|=====|=====]
[-----|-----|-----|-----]
=====
Installation Complete
-----
Congratulations. PeopleTools has been successfully installed to:
    /u01/psoft/pshome
PRESS <ENTER> TO EXIT THE INSTALLER:

```

Oracle PeopleSoft HRMS 9.10 Installation on Application Server

Log in to the Oracle PeopleSoft application server as psoft and follow the installation procedure shown here.

Note: Oracle PeopleSoft HRMS application installation was performed in console mode. The following listing shows the procedure captured during the Oracle PeopleSoft HRMS application installation on the application server.

```

[psft@psft-appl ~]$ cd /u01/software/HRMS91featurepack-dec2010/V23382-01/Disk1/InstData
[psft@psft-appl InstData]$ ls -ltr
-rwxrwxrwx 1 psoft oinstall 54824825 Nov 2 2010 setup.linux
-rwxrwxrwx 1 psoft oinstall 97750905 Nov 2 2010 setup.hp
-rwxrwxrwx 1 psoft oinstall 41059115 Nov 2 2010 setup.exe
-rwxrwxrwx 1 psoft oinstall 215945081 Nov 2 2010 setup.aix
-rwxrwxrwx 1 psoft oinstall 9637753 Nov 2 2010 setup.zlinux
-rwxrwxrwx 1 psoft oinstall 149426041 Nov 2 2010 setup.linux
-rwxrwxrwx 1 psoft oinstall 118656889 Nov 2 2010 setup.hp-ia64
-rwxrwxrwx 1 psoft oinstall 595646325 Nov 2 2010 sesource1.zip
-rwxrwxrwx 1 psoft oinstall 118 Nov 2 2010 MediaId.properties
psft@psft-appl:/u01/software/HRMS91featurepack-dec2010/V23382-01/Disk1/InstData

[psft@psft-appl InstData]$ ./setup.linux -i console
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...
Preparing CONSOLE Mode Installation...

=====
HR                                     (created with InstallAnywhere)
-----
=====

Welcome

```

```
-----
InstallAnywhere will guide you through the installation of PeopleSoft Human
Resources Management System 9.1:  FP - Dec 2010 .
PRESS <ENTER> TO CONTINUE:
=====
Please enter your PeopleSoft license code []: 117feffff8ffffebfb197c32sm64u
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the Oracle database character set:
->1- Non-Unicode Database
    2- Unicode Database
To select an item enter its number, or 0 when you are finished [0] : 2
Please select the Oracle database character set:
    1- Non-Unicode Database
->2- Unicode Database
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
For Oracle please select the products to install:
->1- PeopleSoft Application Server
->2- PeopleSoft Batch Server
->3- PeopleSoft Database Server
->4- PeopleSoft Web Server

To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please enter an installation location or press <ENTER> to accept the default
(DEFAULT: /opt/PT9.1): /u01/psoft/pshome
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the features to install:
->1- PeopleSoft HR Database
->2- PeopleSoft HR Demo Database
->3- PeopleSoft Absence Management
->4- PeopleSoft Benefits Administration
->5- PeopleSoft Candidate Gateway
->6- PeopleSoft Currency Conversion
->7- PeopleSoft Directory Interface
->8- PeopleSoft Enterprise Components
->9- PeopleSoft Global Payroll Argentina
->10- PeopleSoft Global Payroll Australia
->11- PeopleSoft Global Payroll Brazil
->12- PeopleSoft Global Payroll China
->13- PeopleSoft Global Payroll Core
->14- PeopleSoft Global Payroll France
->15- PeopleSoft Global Payroll Germany
```

```
->16- PeopleSoft Global Payroll Hong Kong
->17- PeopleSoft Global Payroll India
->18- PeopleSoft Global Payroll Italy
->19- PeopleSoft Global Payroll Japan
->20- PeopleSoft Global Payroll Malaysia
->21- PeopleSoft Global Payroll Mexico
->22- PeopleSoft Global Payroll Netherlands
->23- PeopleSoft Global Payroll New Zealand
->24- PeopleSoft Global Payroll Singapore
->25- PeopleSoft Global Payroll Spain
->26- PeopleSoft Global Payroll Switzerland
->27- PeopleSoft Global Payroll Thailand
->28- PeopleSoft Global Payroll UK
->29- PeopleSoft Global Payroll United States
->30- PeopleSoft HRMS Portal Pack
->31- PeopleSoft Human Resources
->32- PeopleSoft Pay/Bill Management
->33- PeopleSoft Payroll Interface
->34- PeopleSoft Payroll Interface for ADP
->35- PeopleSoft Payroll for North America
->36- PeopleSoft Pension Administration
->37- PeopleSoft Recruit Workforce/Ltd TAM
->38- PeopleSoft Shared Components
->39- PeopleSoft Stock Administration
->40- PeopleSoft Succession Planning
->41- PeopleSoft Talent Acquisition Mgr
->42- PeopleSoft Time and Labor
->43- PeopleSoft eBenefits
->44- PeopleSoft eCompensation
->45- PeopleSoft eCompensation Mgr Desktop
->46- PeopleSoft eDevelopment
->47- PeopleSoft ePay
->48- PeopleSoft ePerformance
->49- PeopleSoft eProfile
->50- PeopleSoft eProfile Manager Desktop
```

To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

=====

Pre-Install Summary

Please review the following before continuing:

HR will be installed in the following location: /u01/psoft/pshome with the following features:

PeopleSoft HR Database

PeopleSoft HR Demo Database

PeopleSoft Absence Management

PeopleSoft Benefits Administration

PeopleSoft Candidate Gateway

PeopleSoft Currency Conversion
PeopleSoft Directory Interface
PeopleSoft Enterprise Components
PeopleSoft Global Payroll Argentina
PeopleSoft Global Payroll Australia
PeopleSoft Global Payroll Brazil
PeopleSoft Global Payroll China
PeopleSoft Global Payroll Core
PeopleSoft Global Payroll France
PeopleSoft Global Payroll Germany
PeopleSoft Global Payroll Hong Kong
PeopleSoft Global Payroll India
PeopleSoft Global Payroll Italy
PeopleSoft Global Payroll Japan
PeopleSoft Global Payroll Malaysia
PeopleSoft Global Payroll Mexico
PRESS <ENTER> TO CONTINUE:
PeopleSoft Global Payroll Netherlands
PeopleSoft Global Payroll New Zealand
PeopleSoft Global Payroll Singapore
PeopleSoft Global Payroll Spain
PeopleSoft Global Payroll Switzerland
PeopleSoft Global Payroll Thailand
PeopleSoft Global Payroll UK
PeopleSoft Global Payroll United States
PeopleSoft HRMS Portal Pack
PeopleSoft Human Resources
PeopleSoft Pay/Bill Management
PeopleSoft Payroll Interface
PeopleSoft Payroll Interface for ADP
PeopleSoft Payroll for North America
PeopleSoft Pension Administration
PeopleSoft Recruit Workforce/Ltd TAM
PeopleSoft Shared Components
PeopleSoft Stock Administration
PeopleSoft Succession Planning
PeopleSoft Talent Acquisition Mgr
PeopleSoft Time and Labor
PeopleSoft eBenefits
PRESS <ENTER> TO CONTINUE:
PeopleSoft eCompensation
PeopleSoft eCompensation Mgr Desktop
PeopleSoft eDevelopment
PeopleSoft ePay
PeopleSoft ePerformance
PeopleSoft eProfile
PeopleSoft eProfile Manager Desktop

The following PeopleSoft Servers were selected by you:

PeopleSoft Application Server

PeopleSoft Batch Server

PeopleSoft Database Server

PeopleSoft Web Server

Database type: Oracle

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

=====

Installing...

[=====|=====|=====|=====]

[-----|-----|-----|-----]

=====

Installation Complete

Congratulations. PeopleSoft Human Resources Management System 9.1: FP - Dec 2010 has been successfully installed to:

/u01/psoft/pshome

PRESS <ENTER> TO EXIT THE INSTALLER:

psoft@psft-appl:/u01/software/HRMS91featurepack-dec2010/V23382-01/Disk1/InstData

[psoft@psft-appl InstData]\$ exit

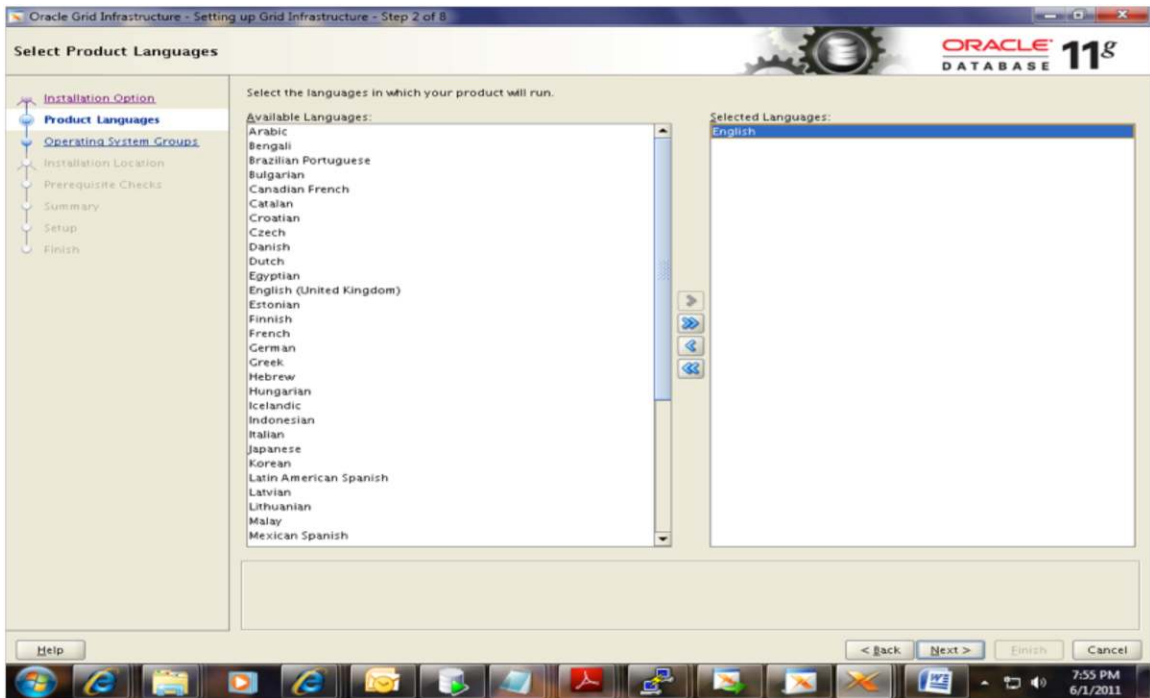
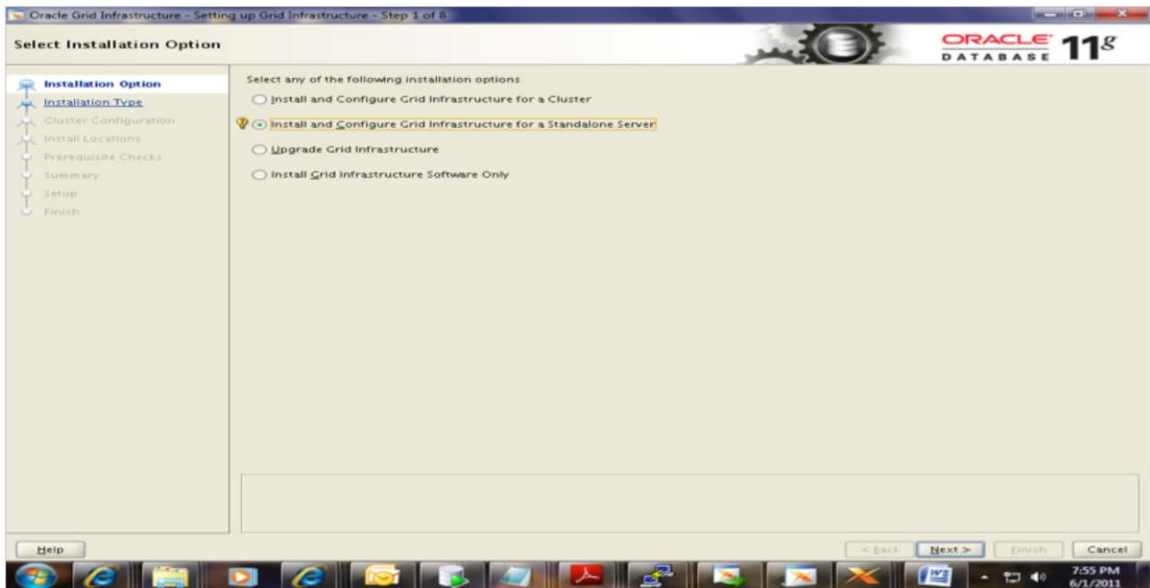
exit

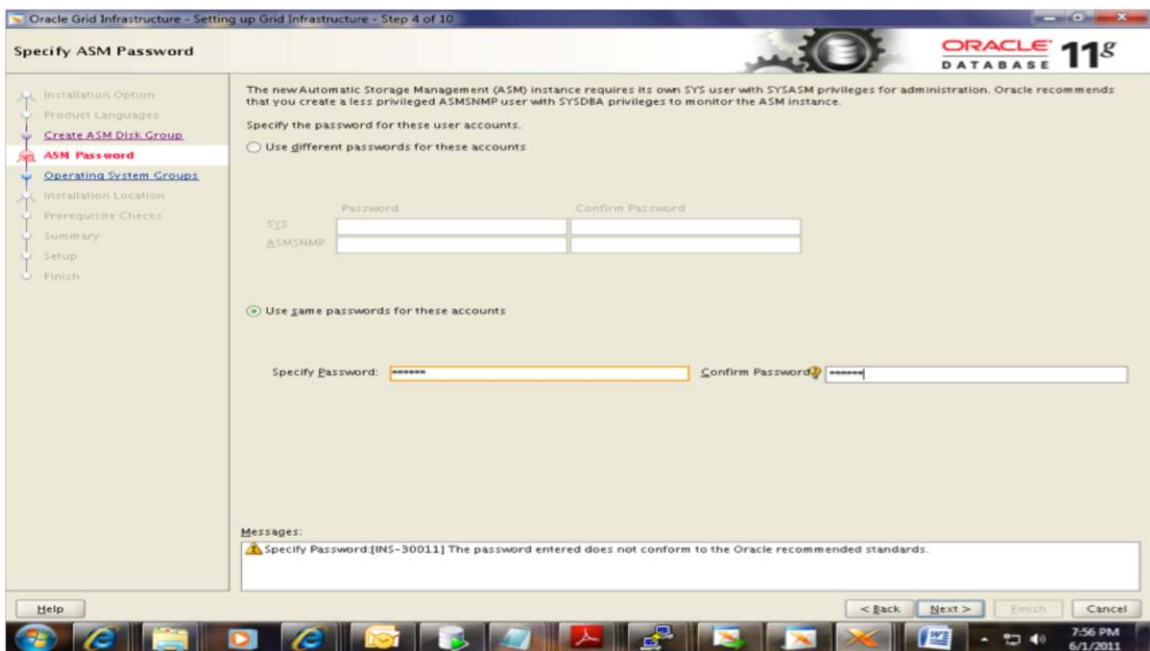
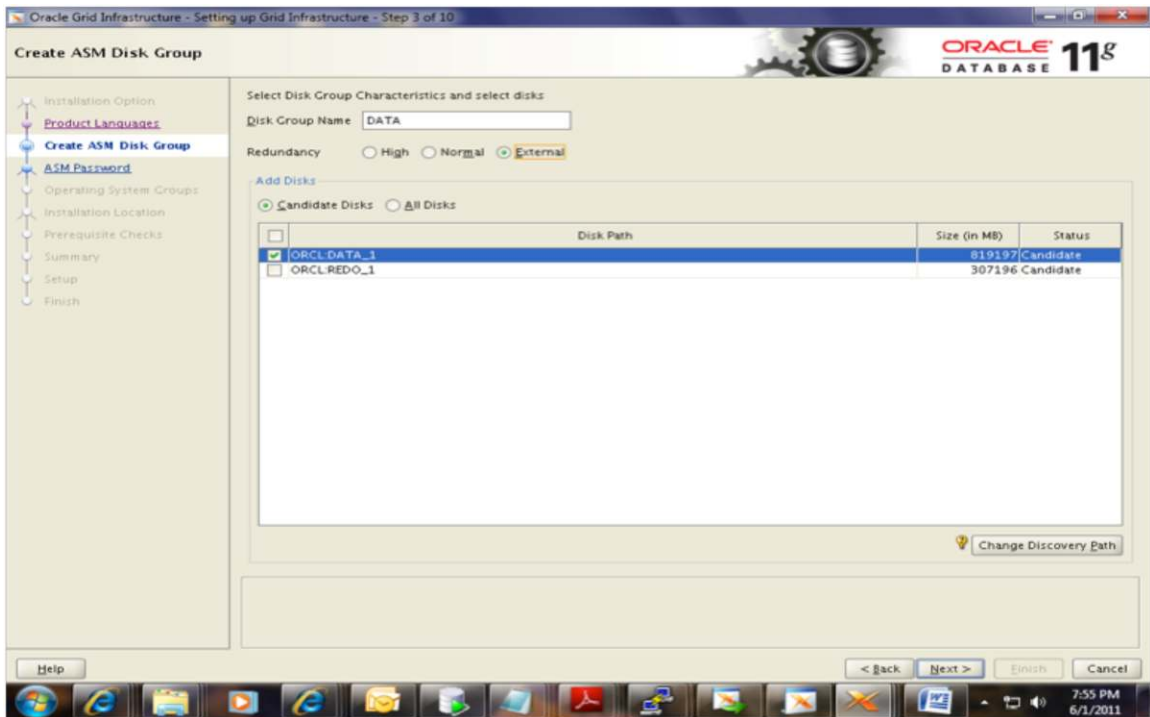
Appendix C: Oracle PeopleSoft Database Server Installation

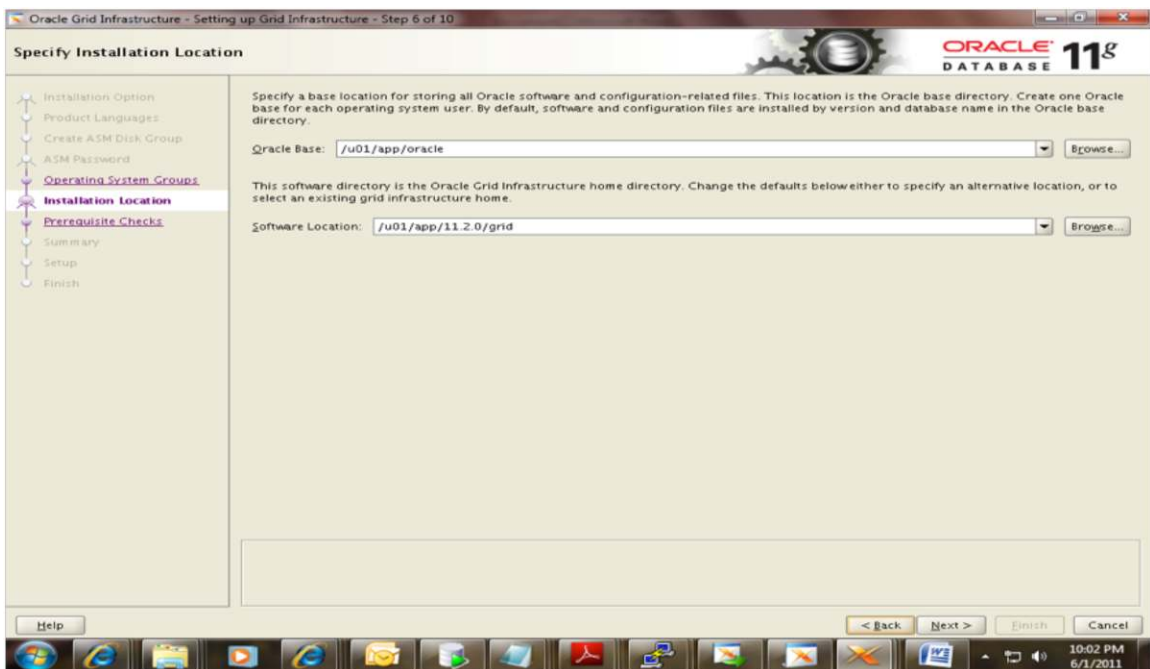
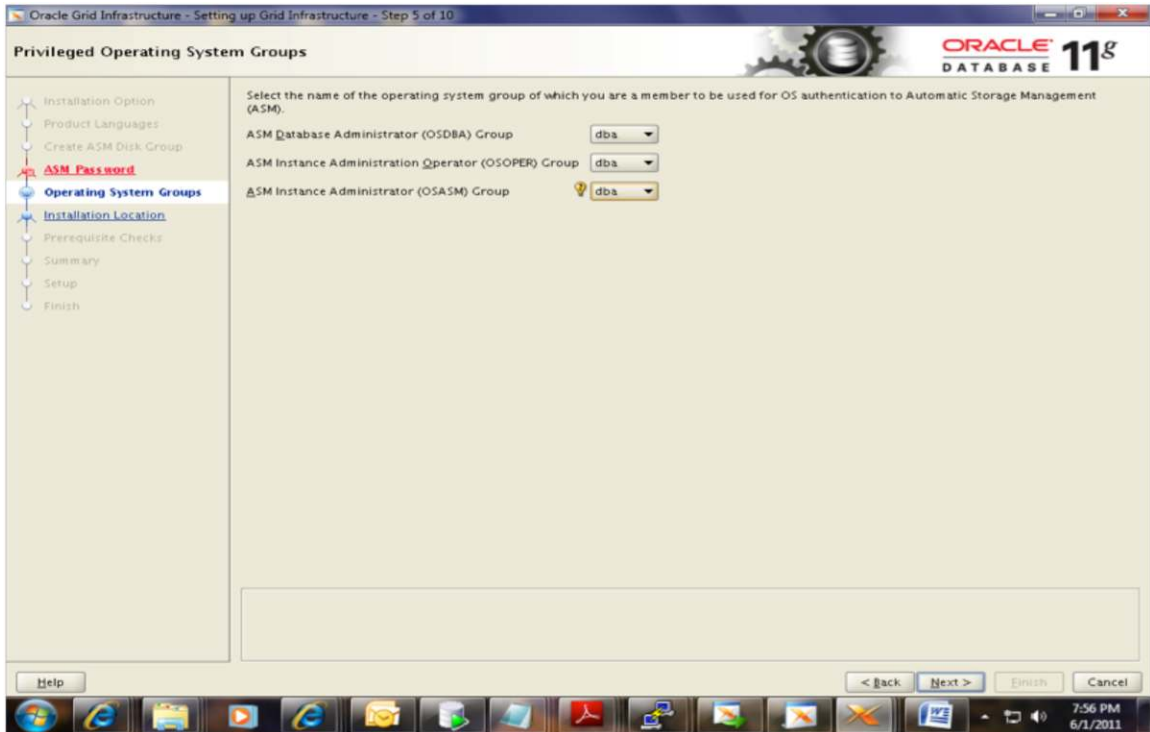
Installation of Oracle 11g r2 (11.2.0.1.0) Software Binaries on Database Server

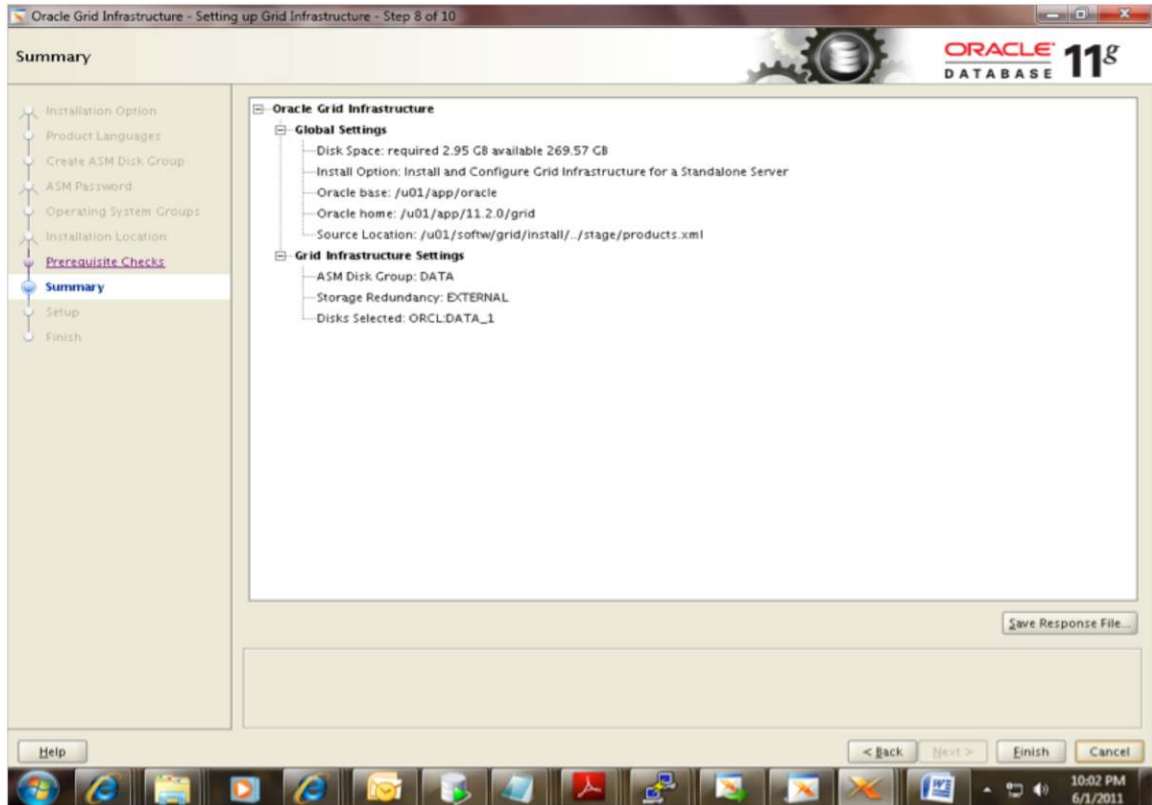
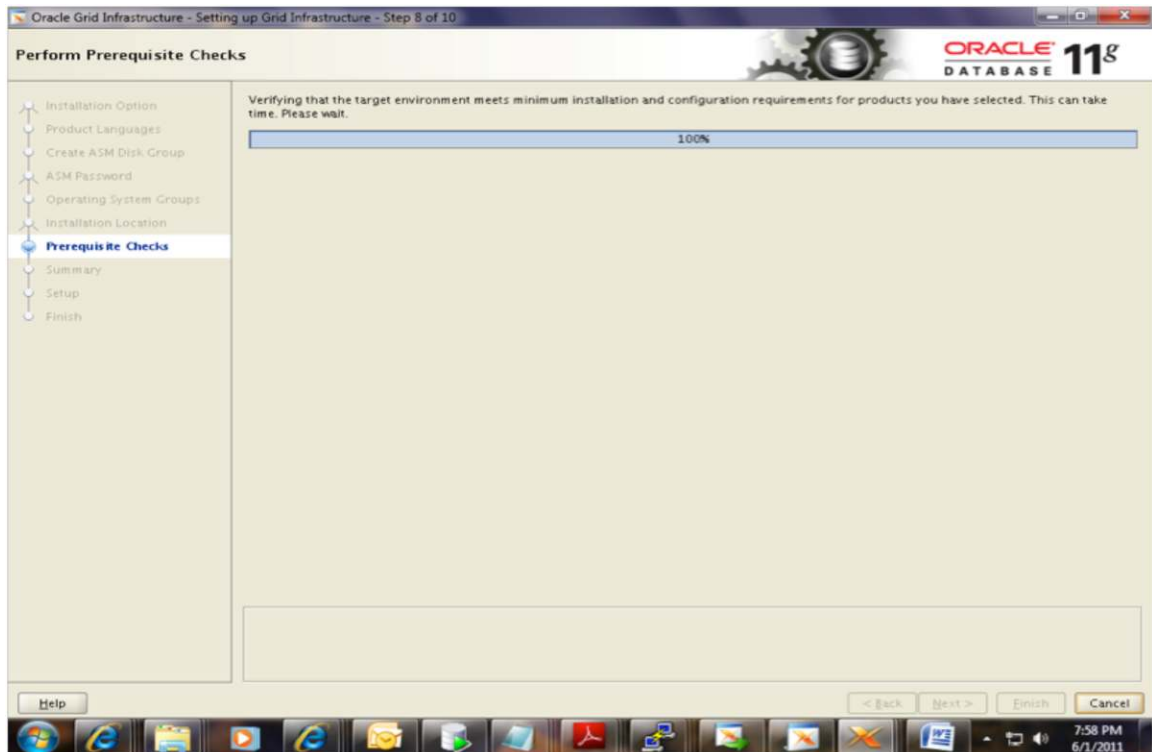
Log in as the oracle user and install the Oracle 11gr2 database server software as shown on the following screens. The screens and procedures cover the installation of both Oracle Automatic Storage Management (ASM) and Oracle server binaries.

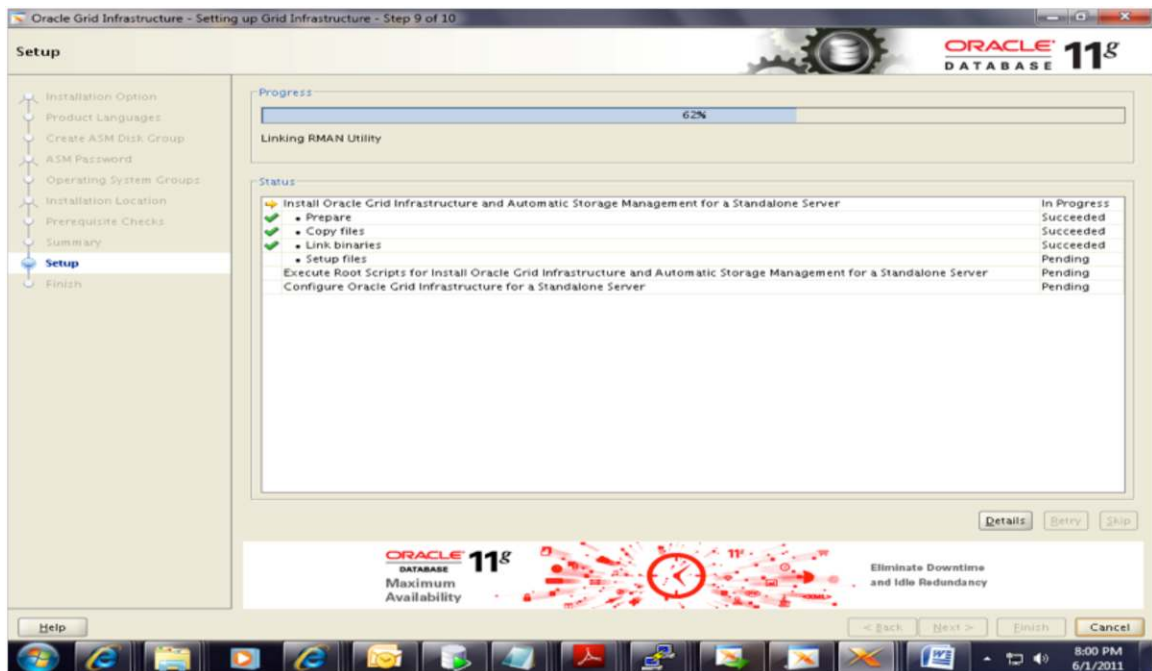
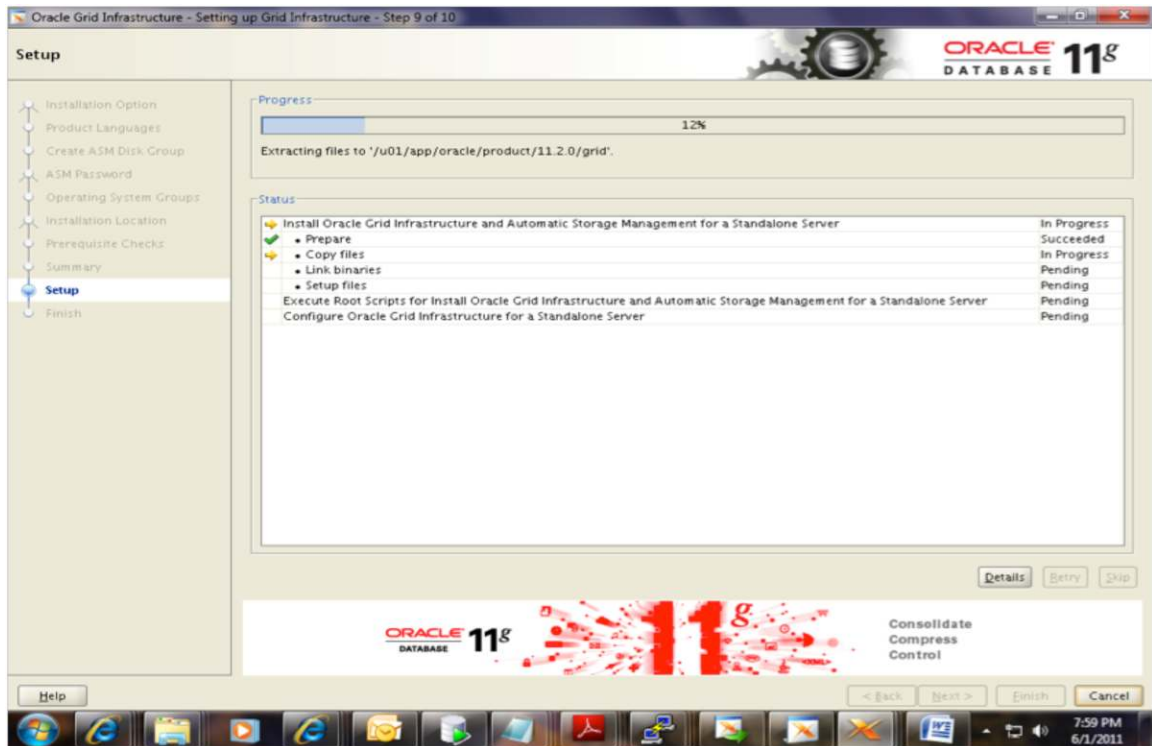
Oracle ASM Installation

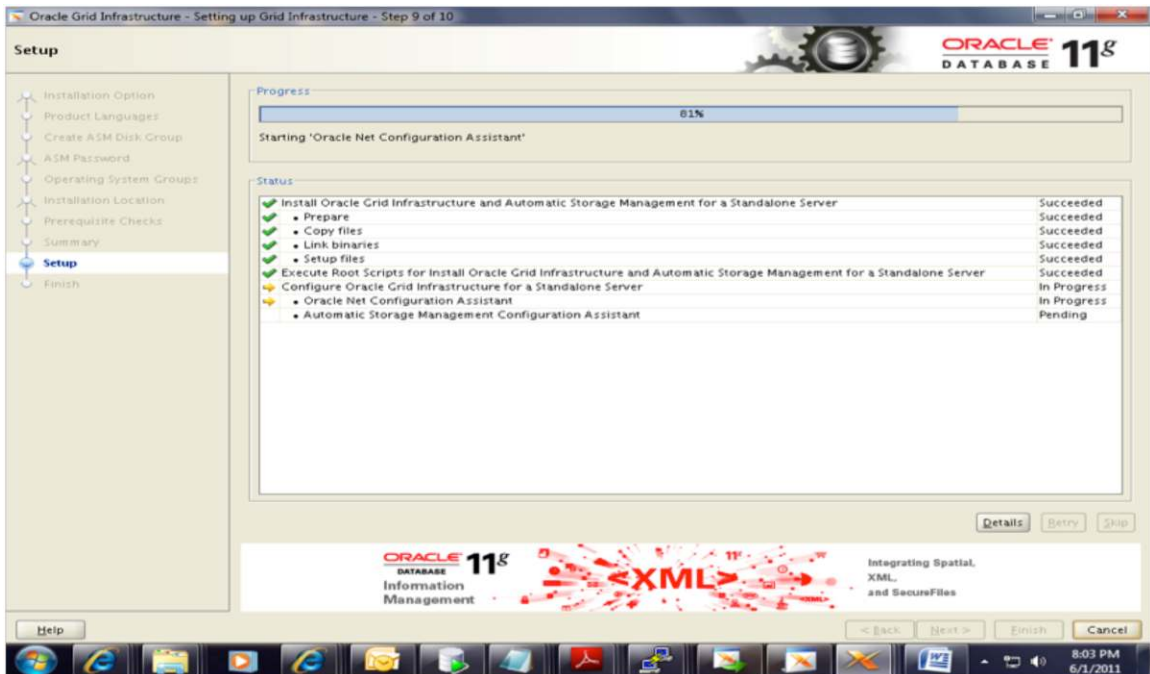
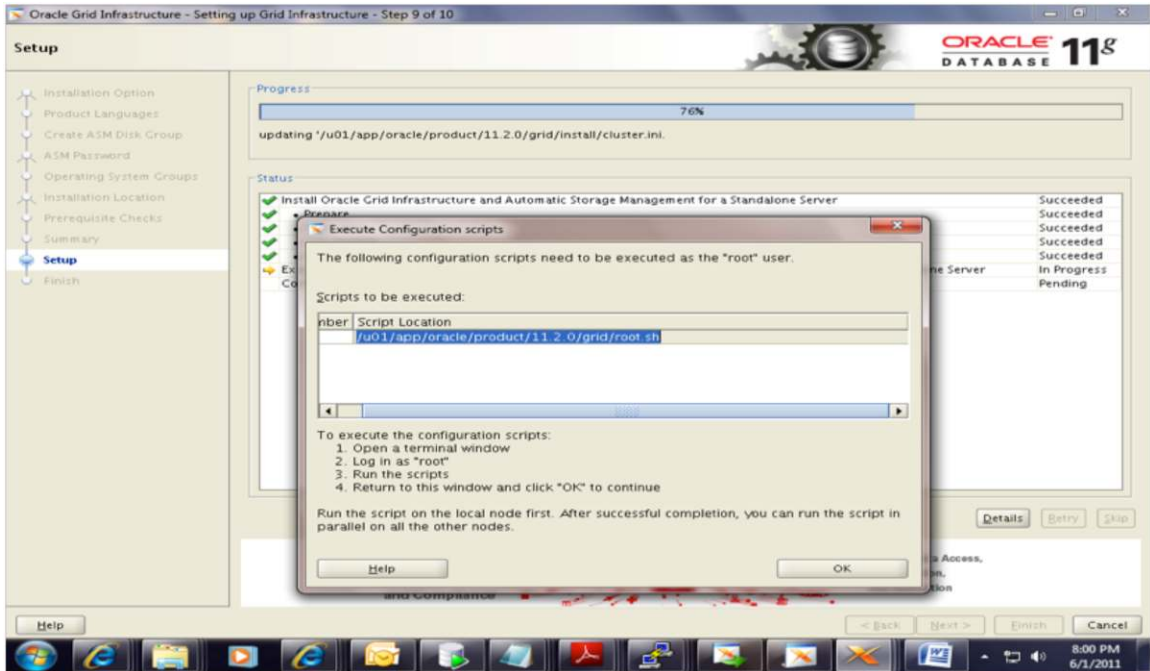


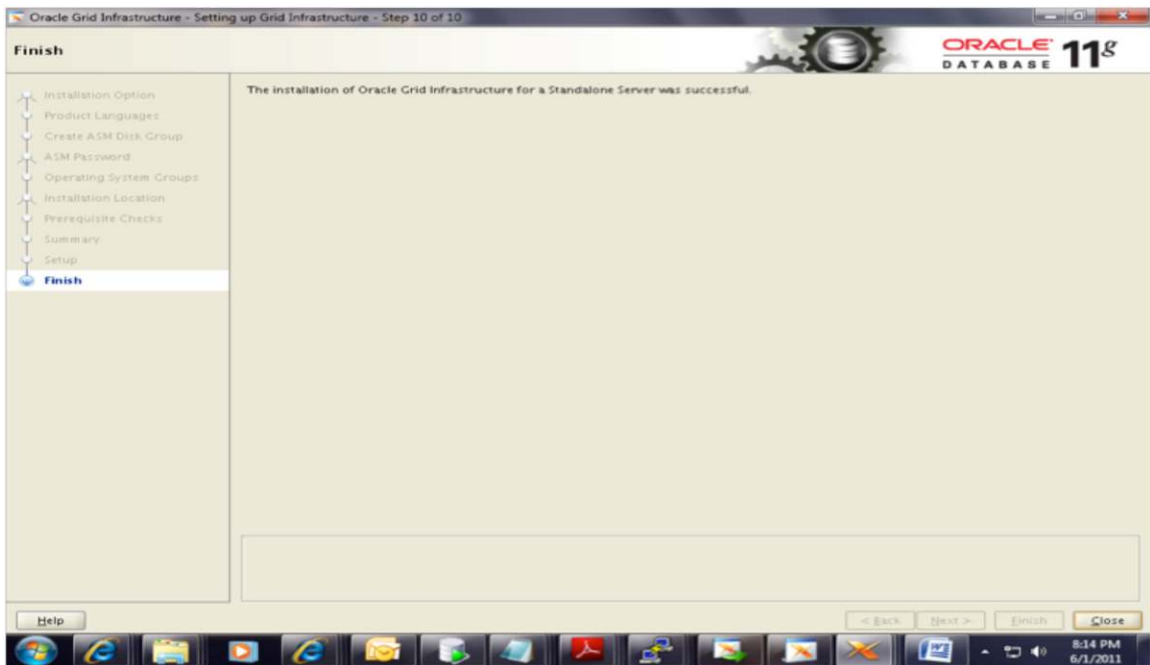
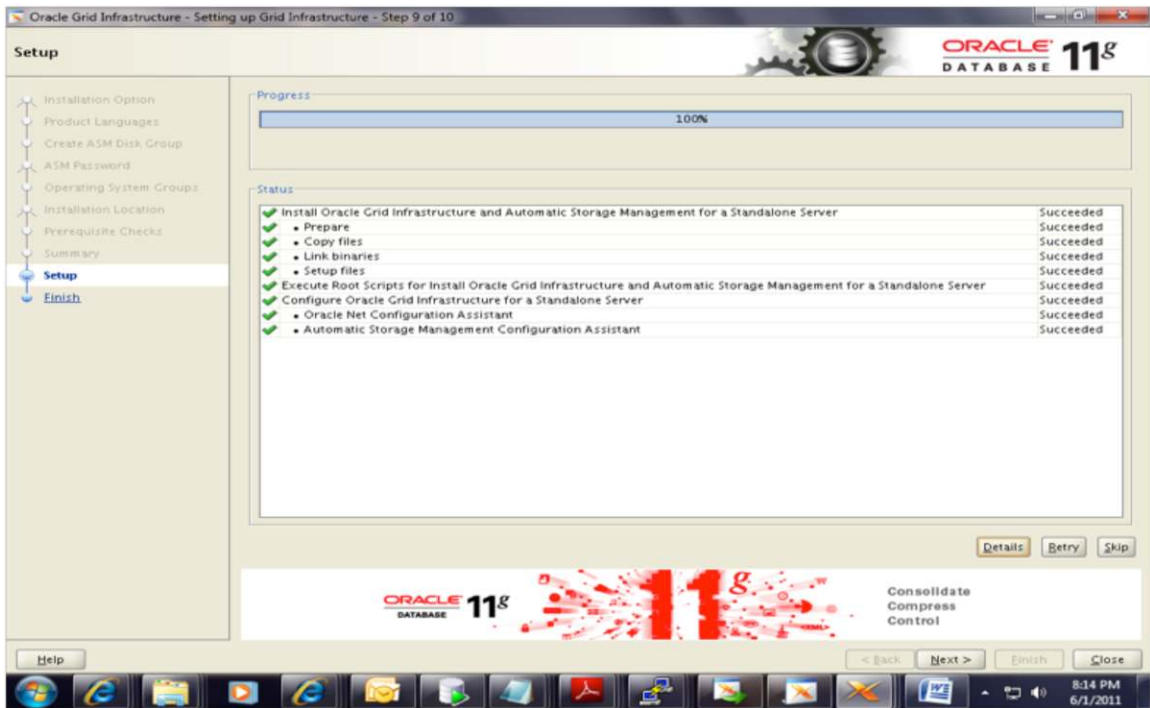




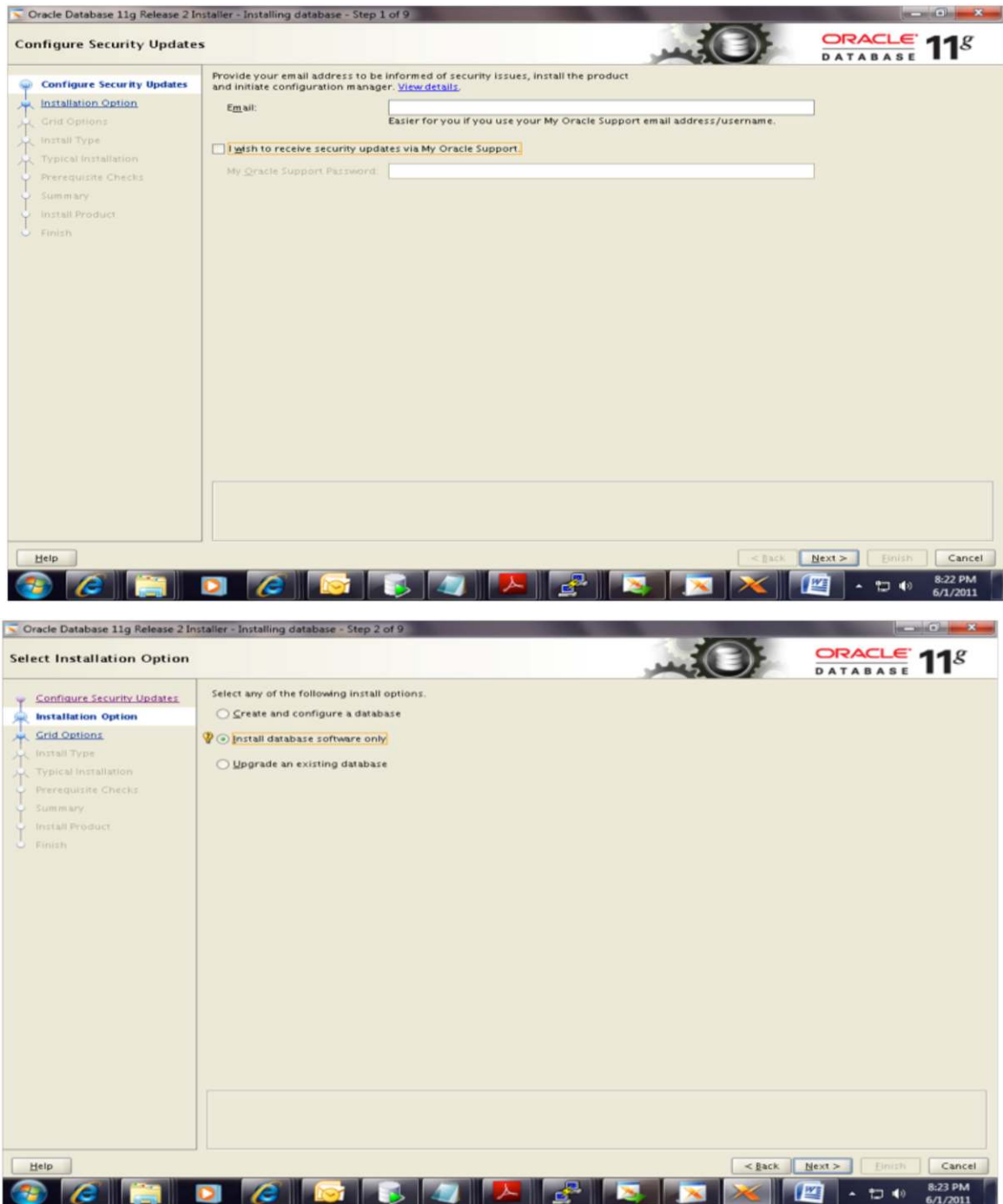


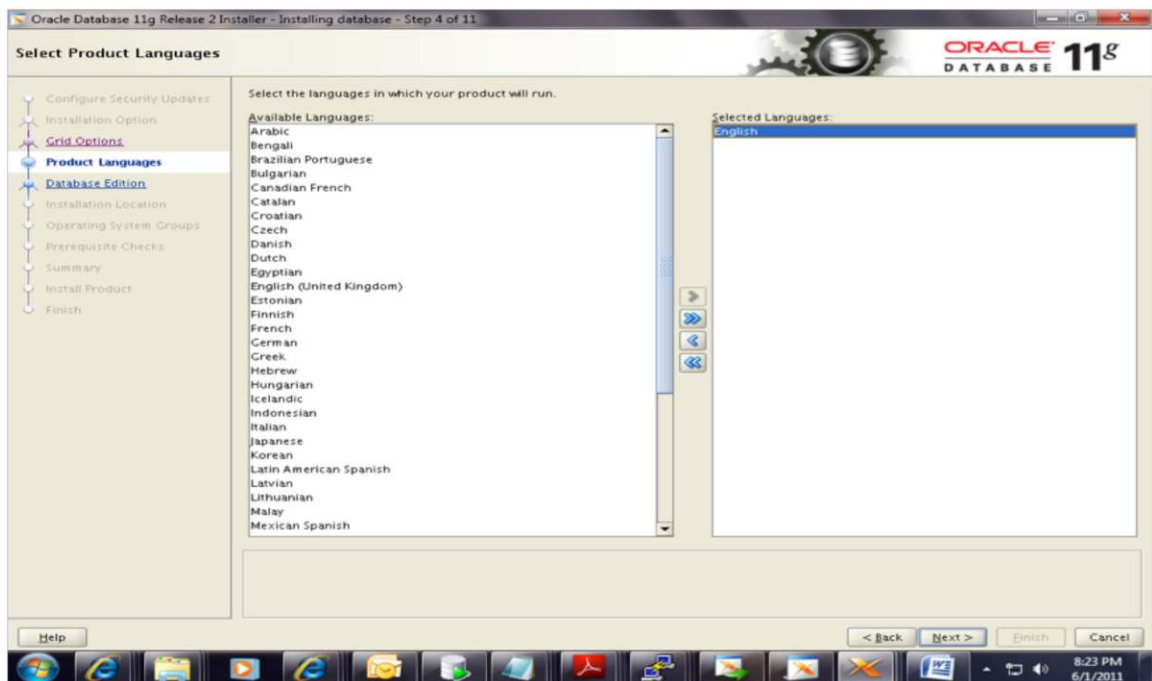
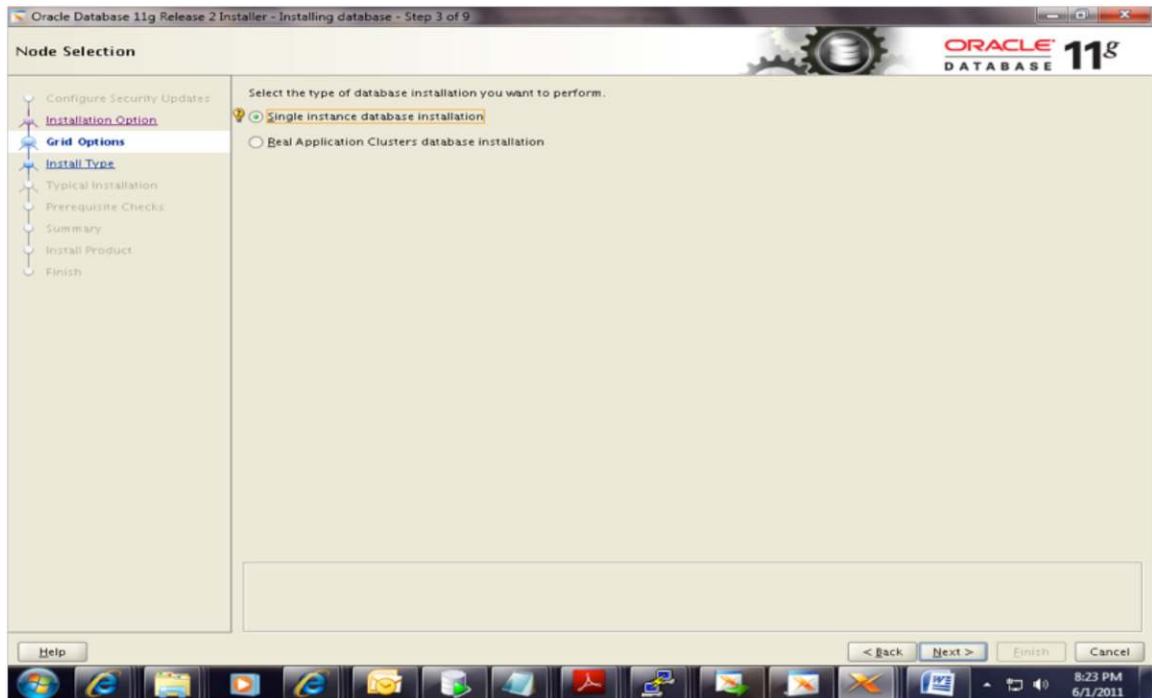


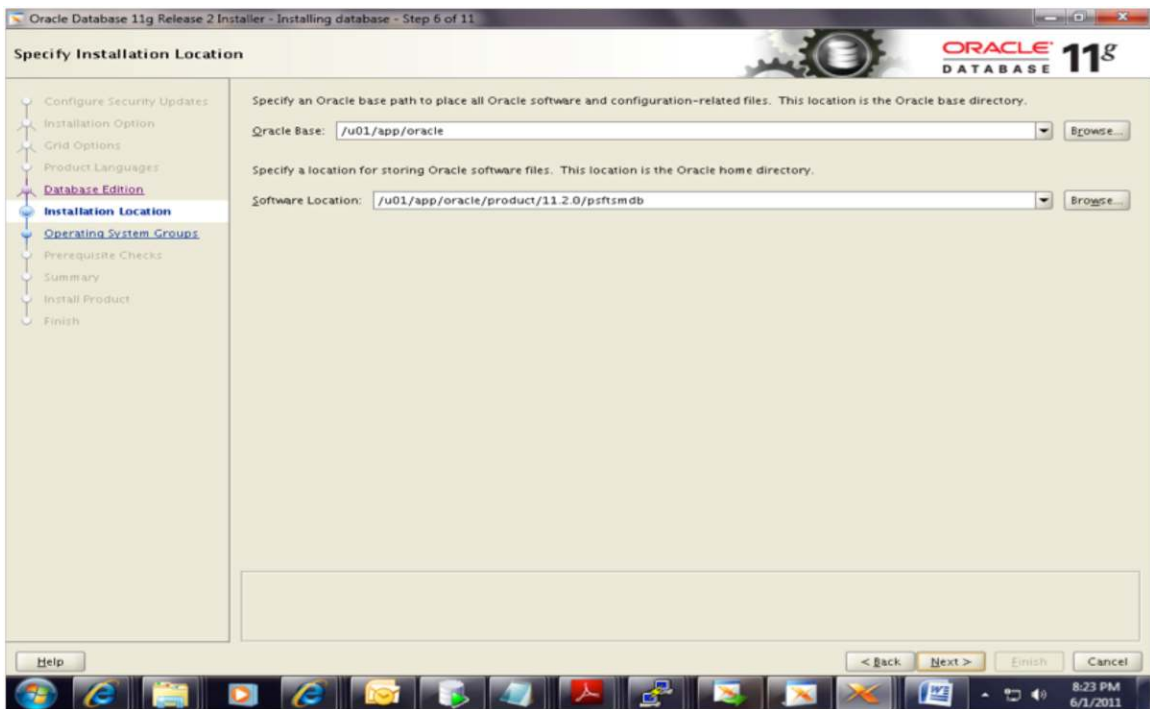
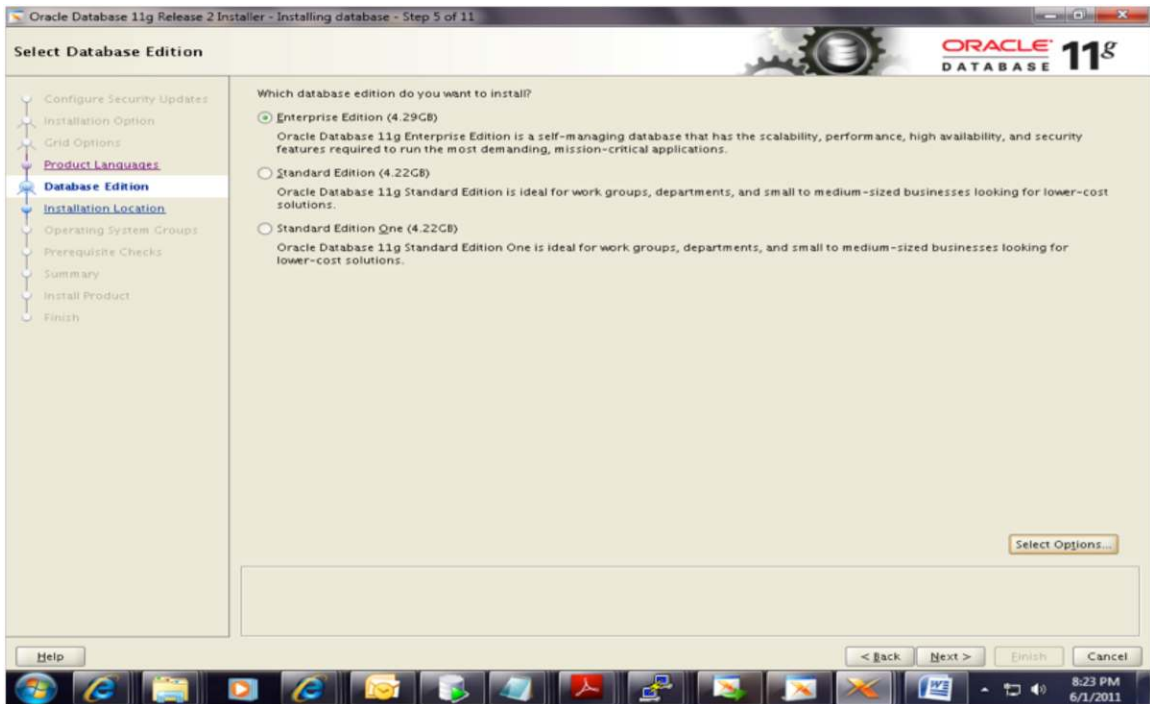


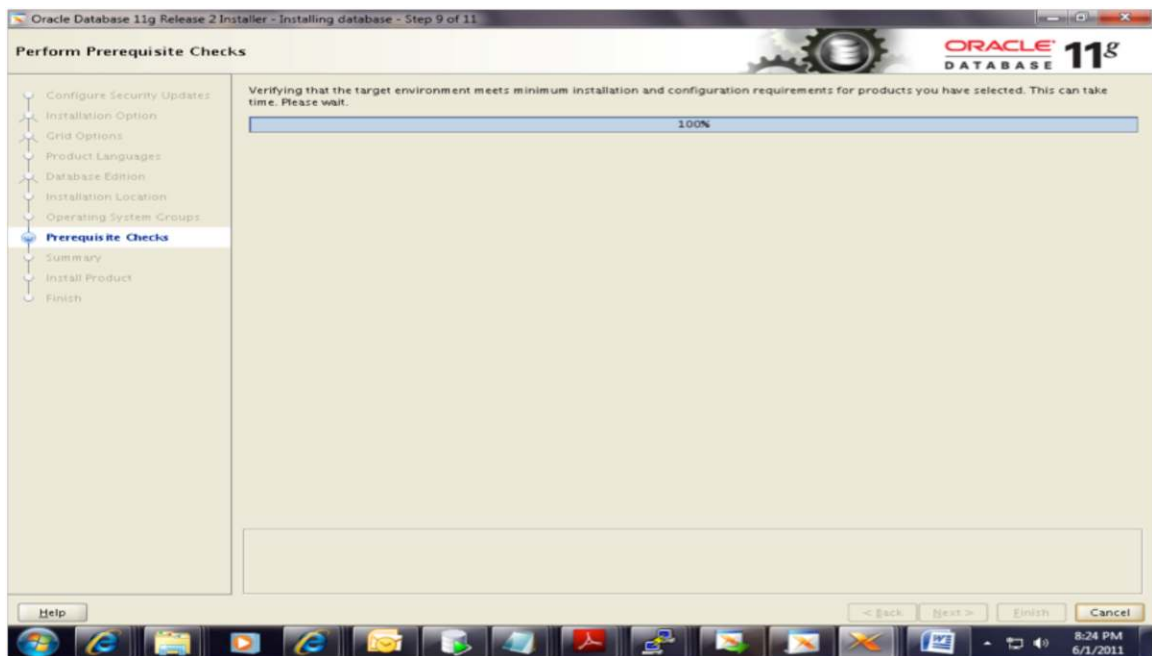
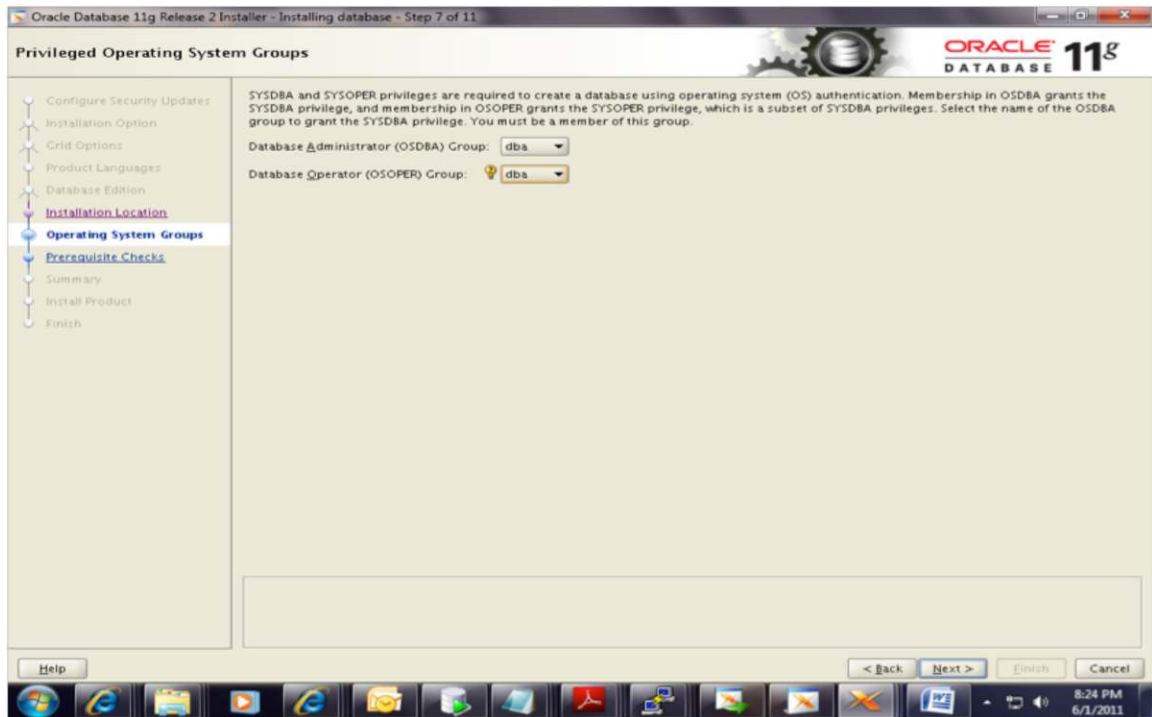


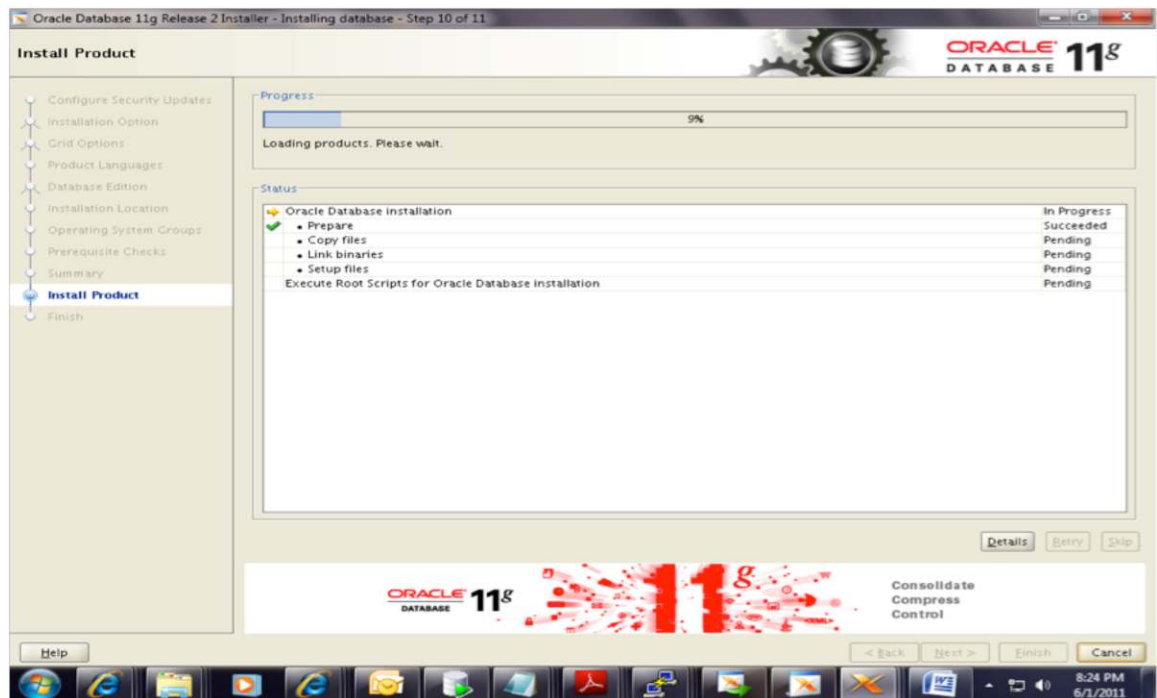
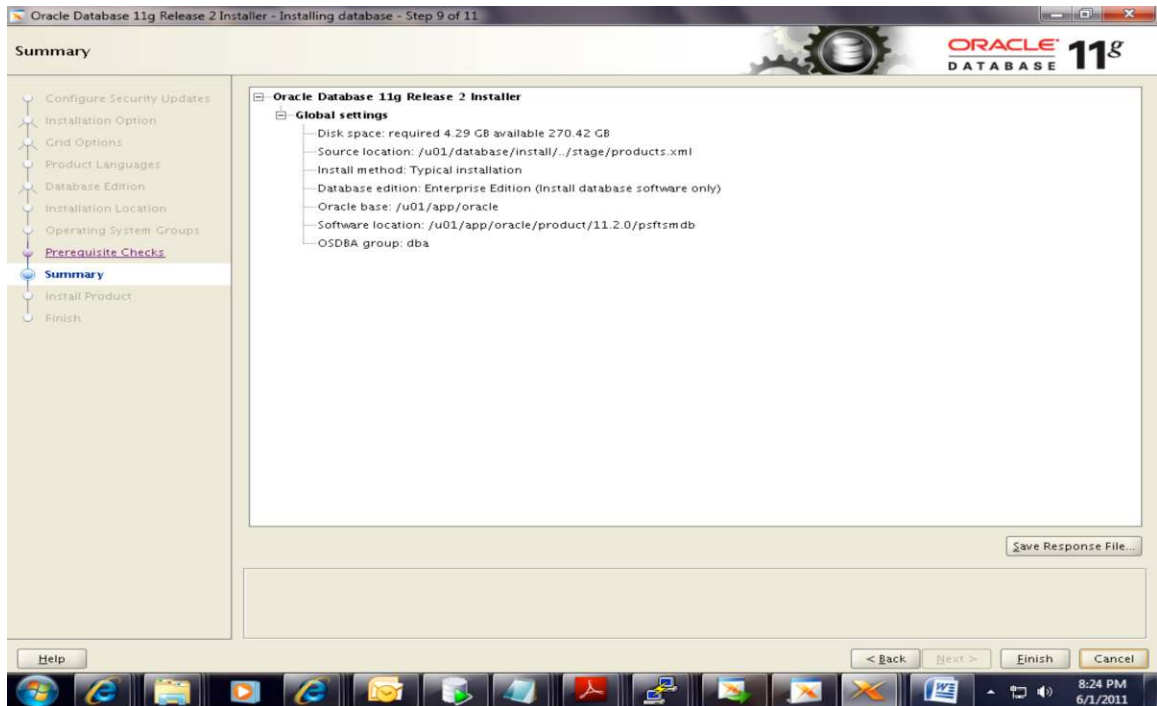
Database Binaries Installation

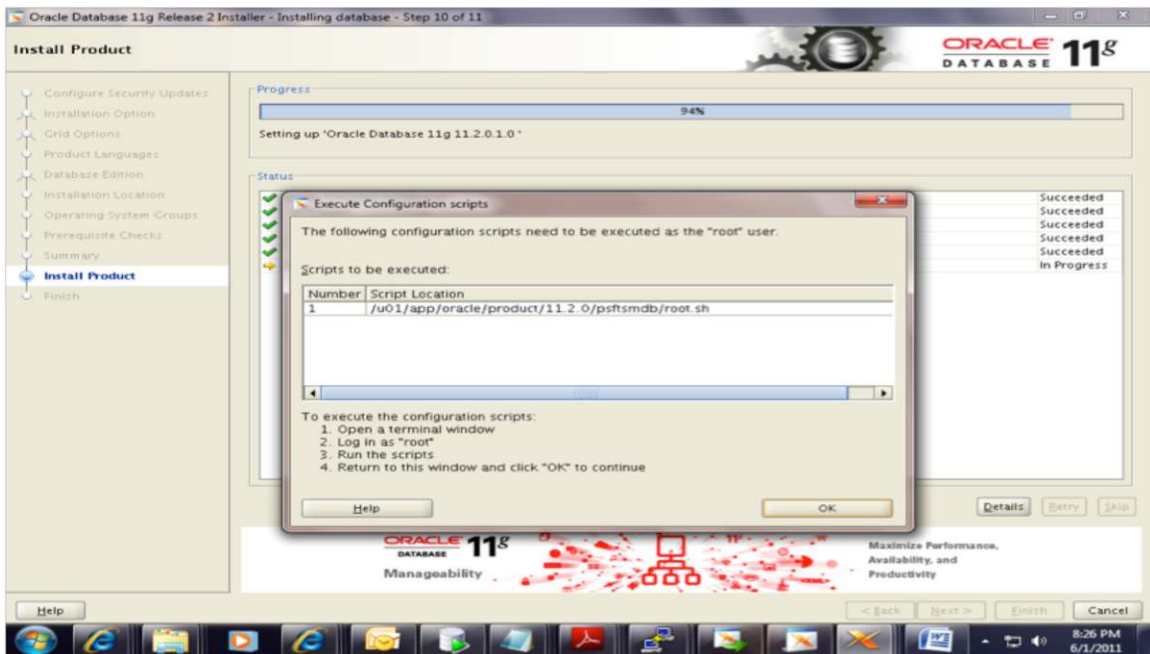
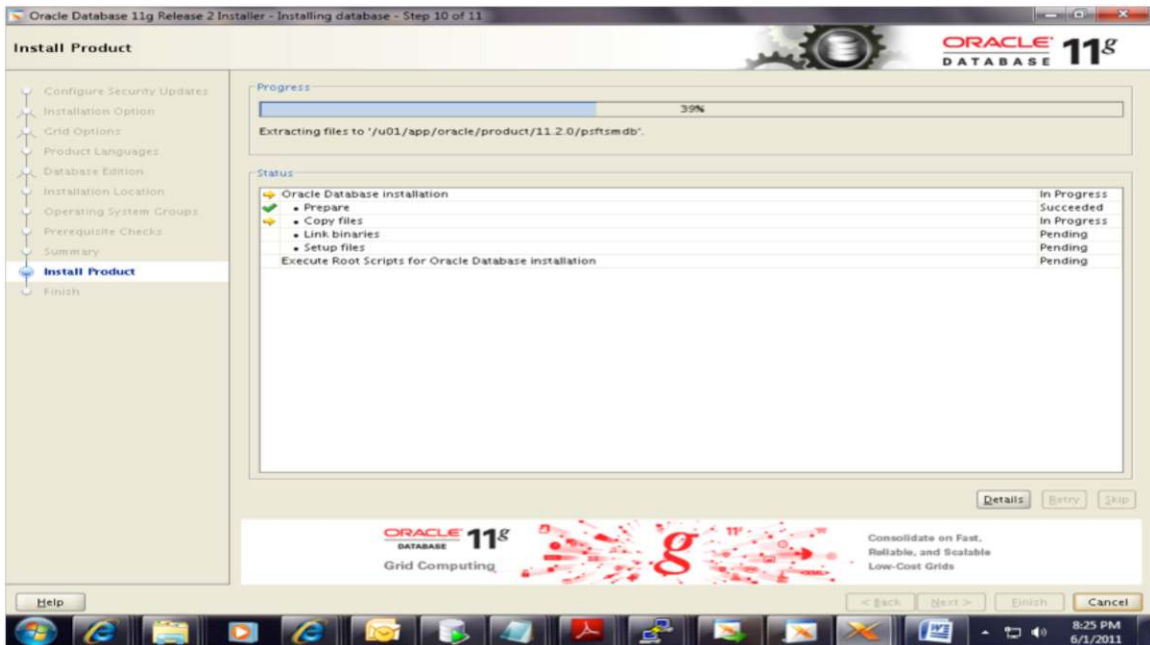


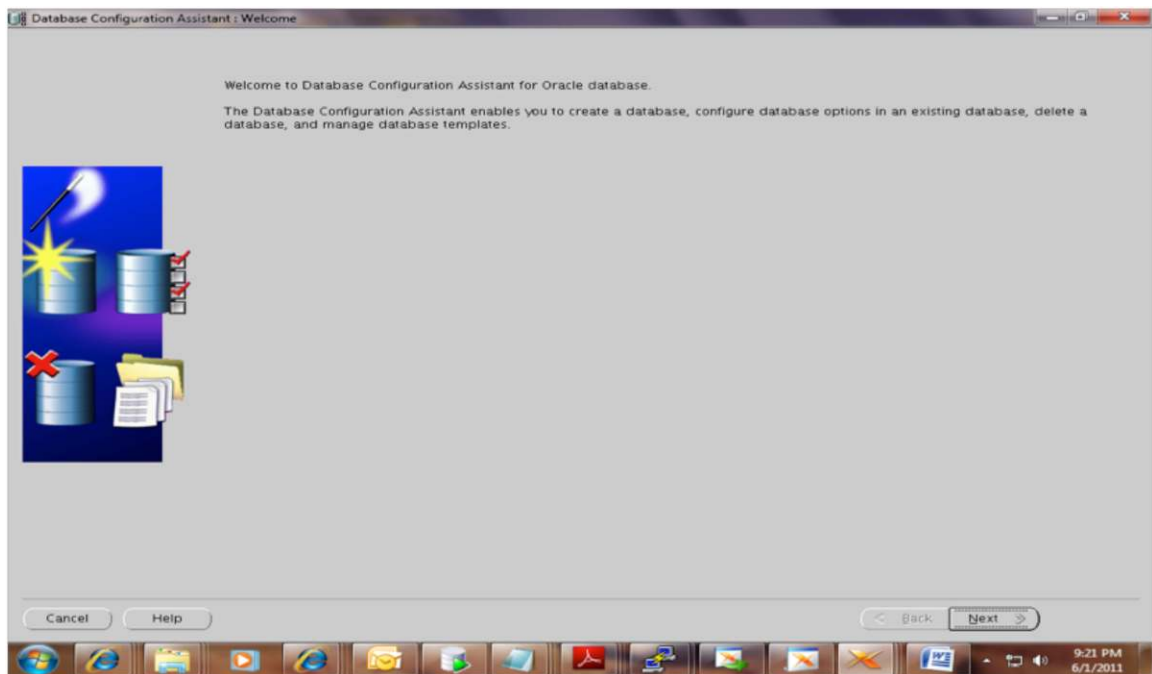
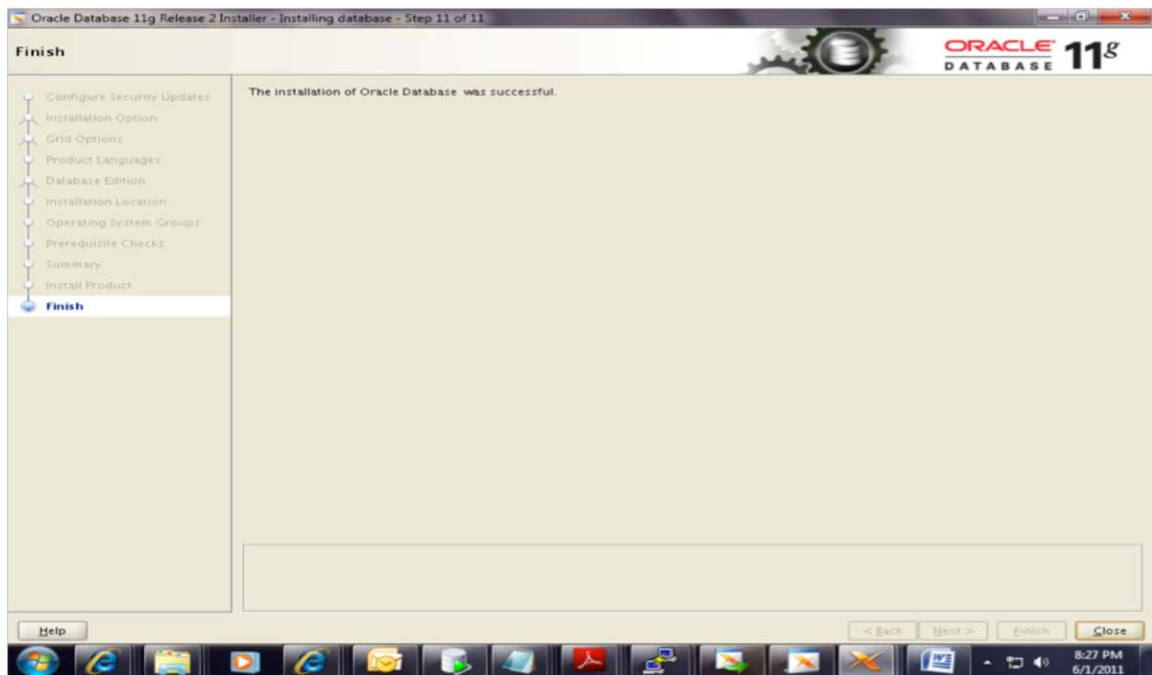


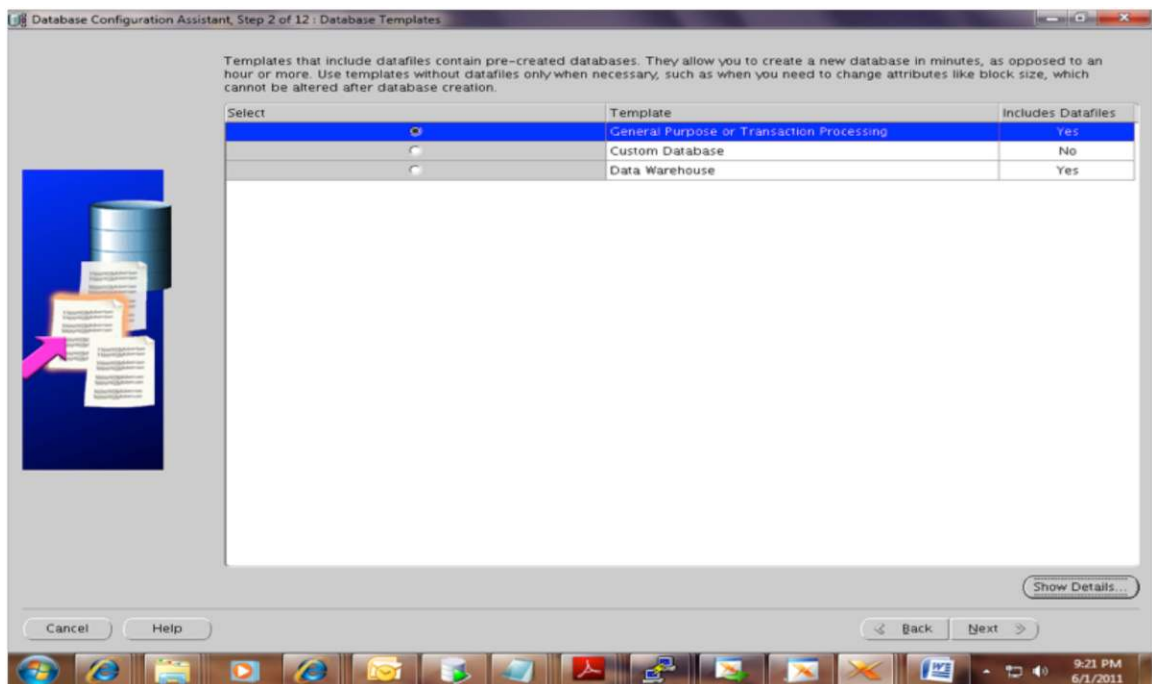
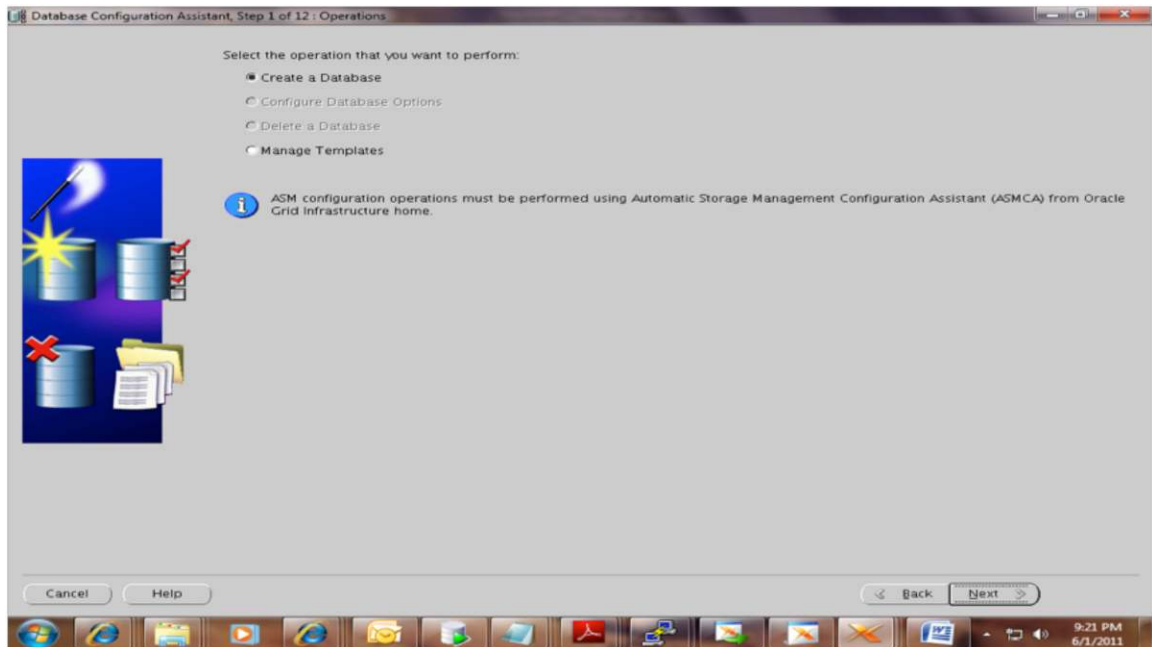


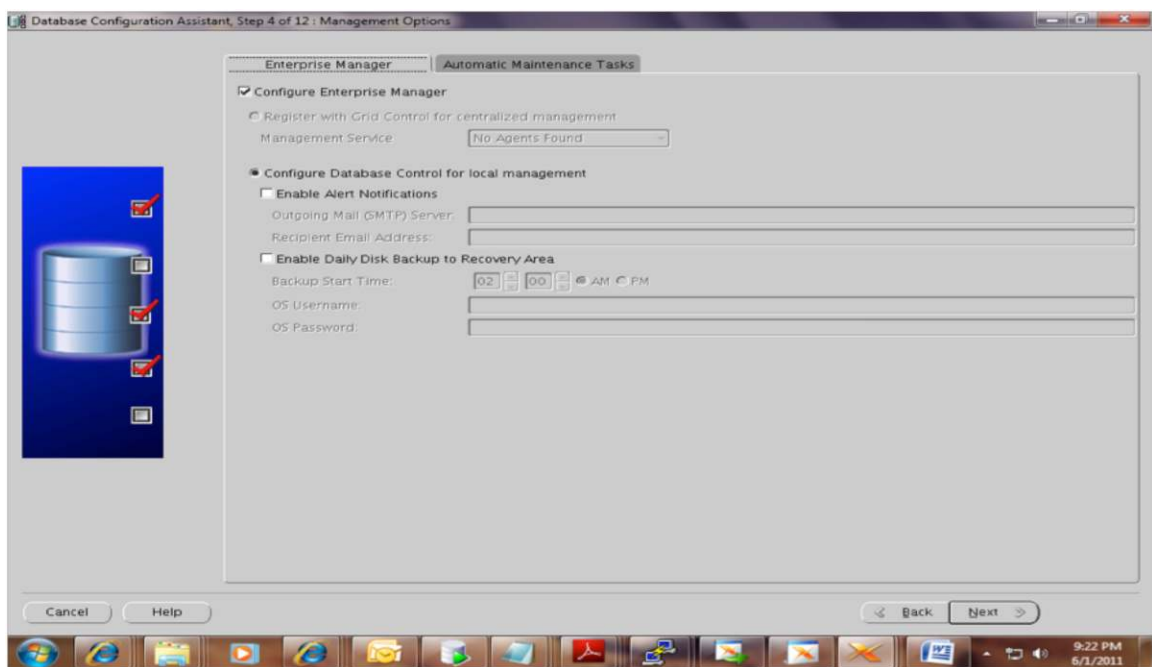
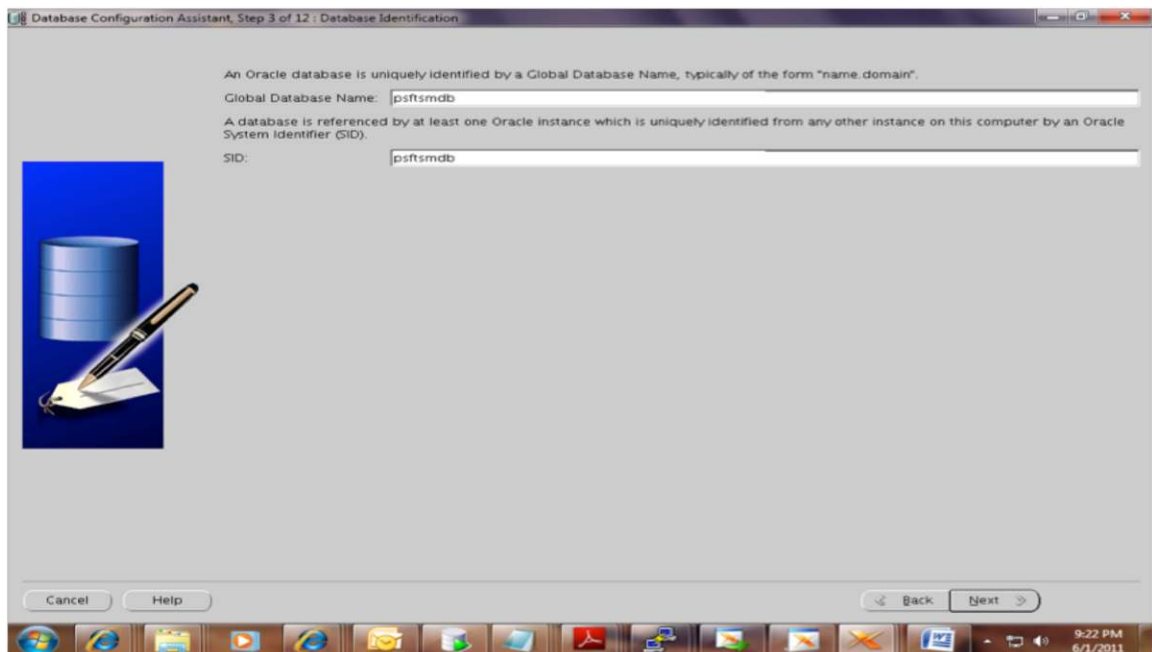


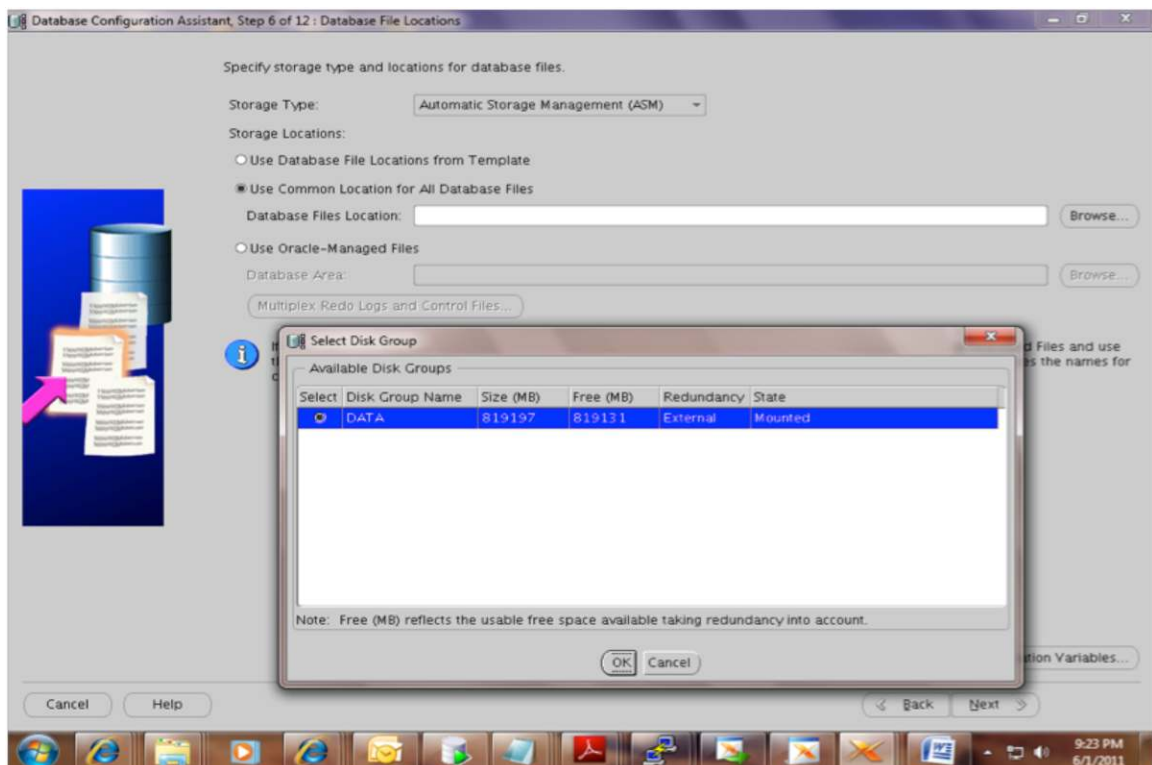
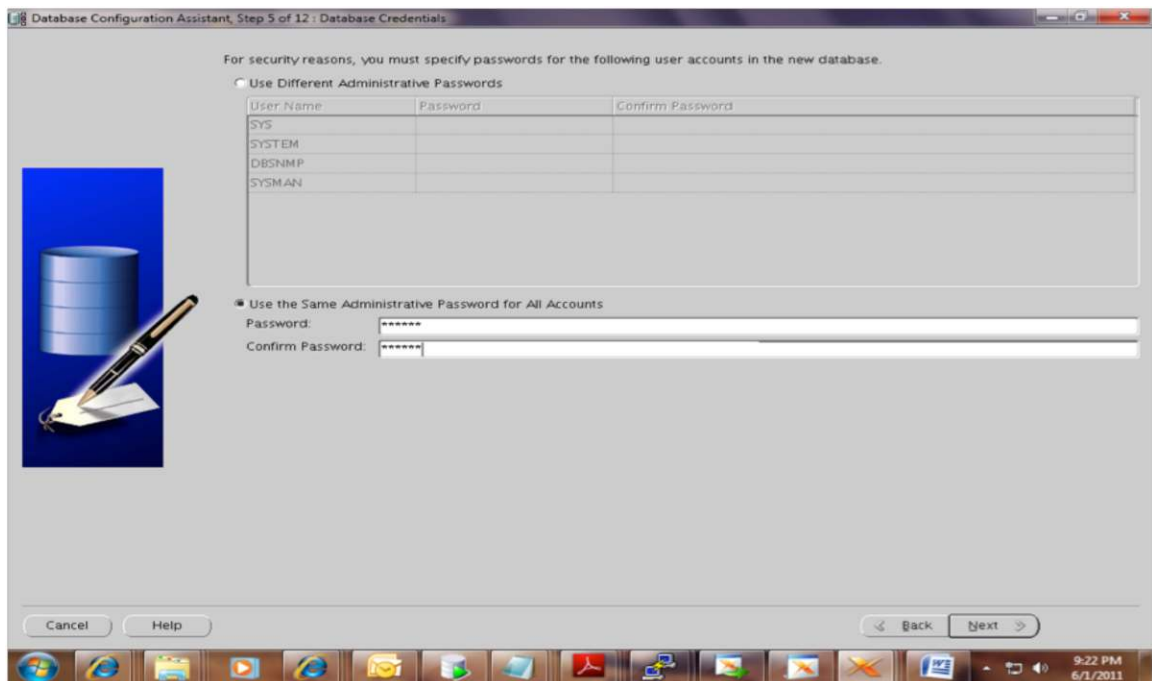


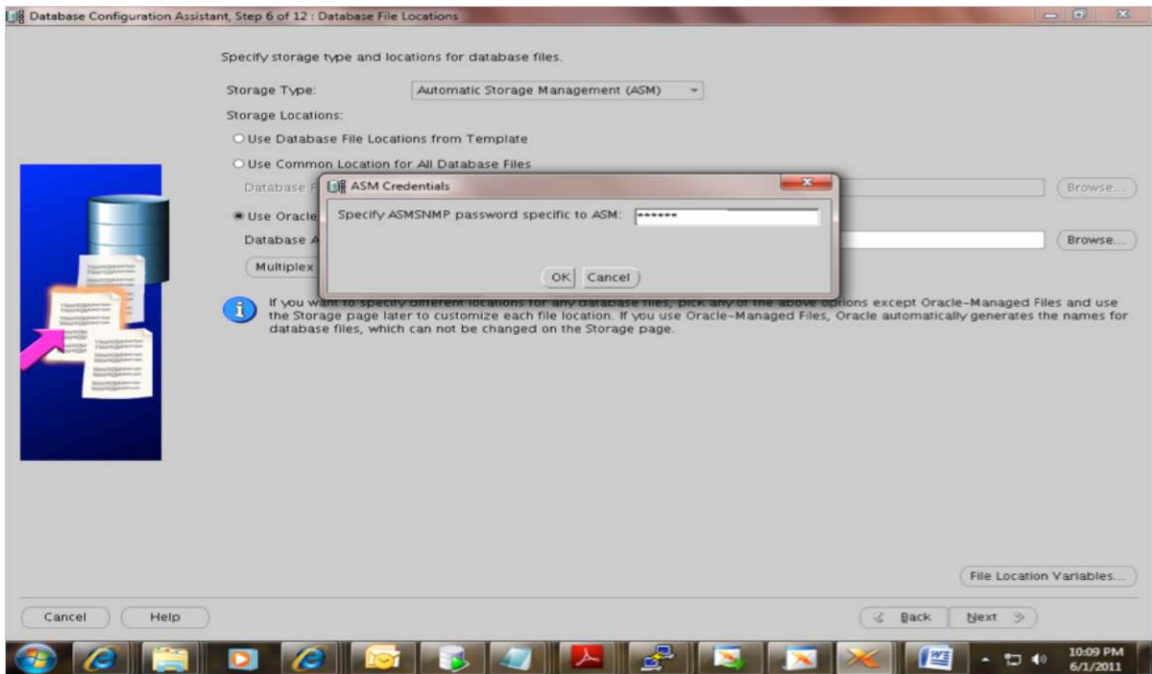
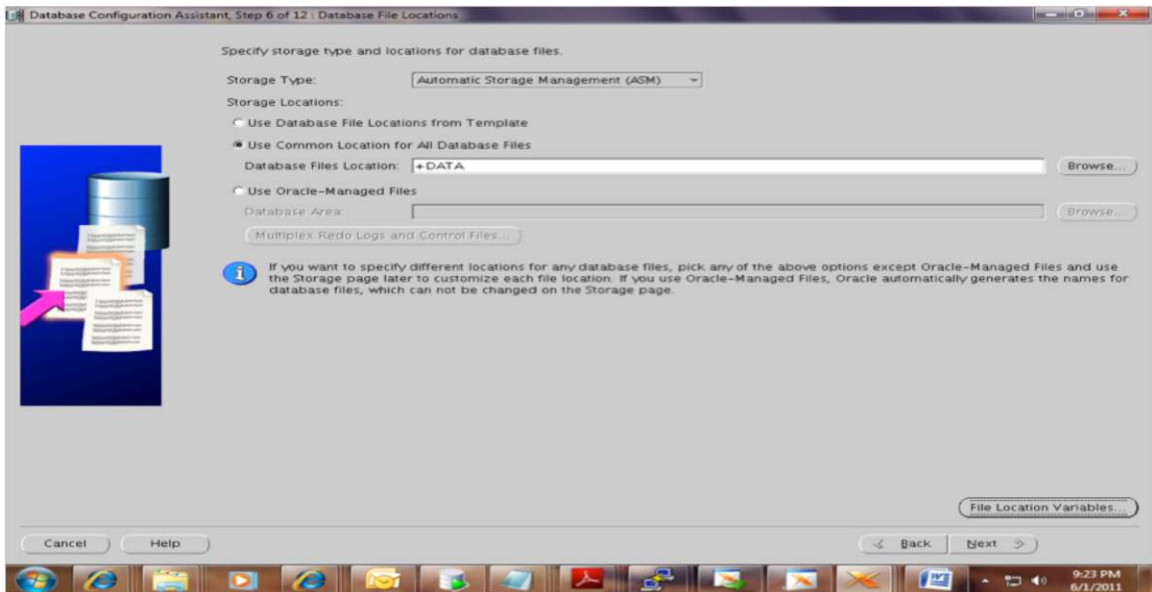


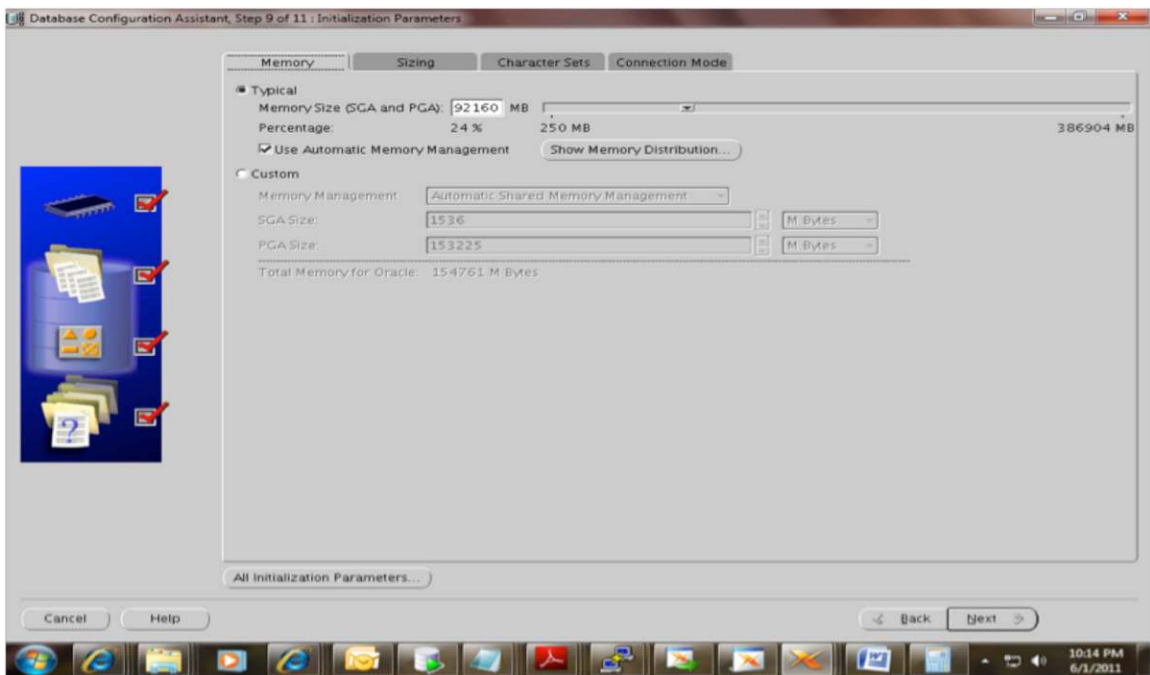
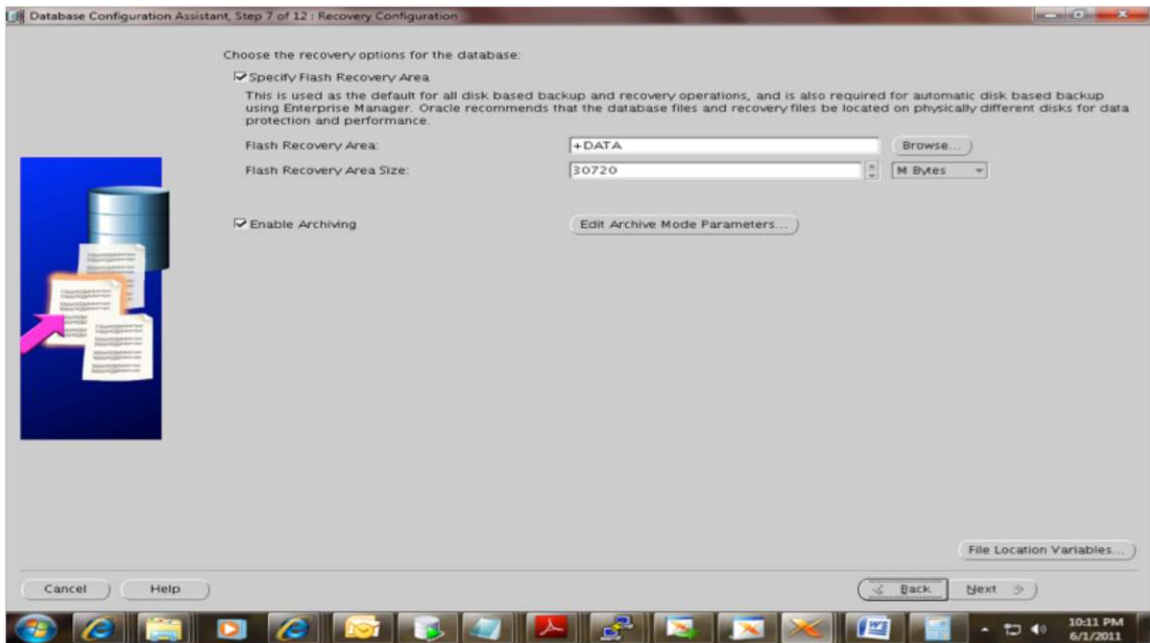


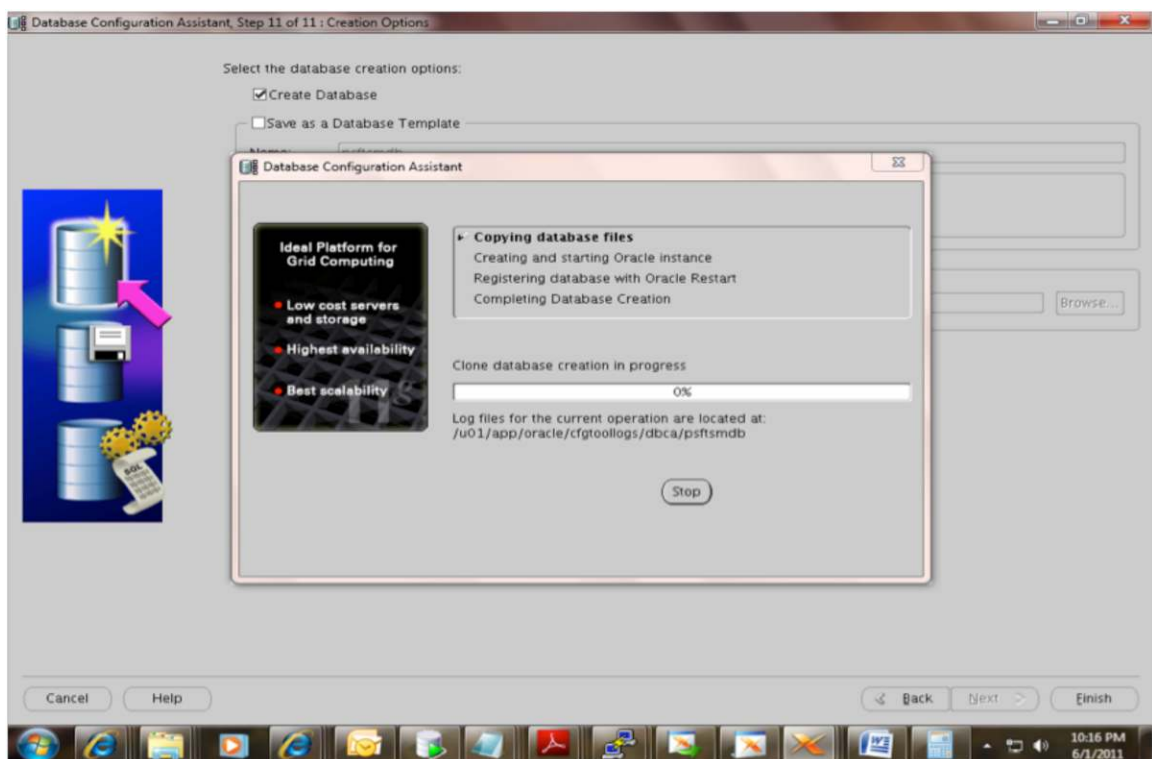
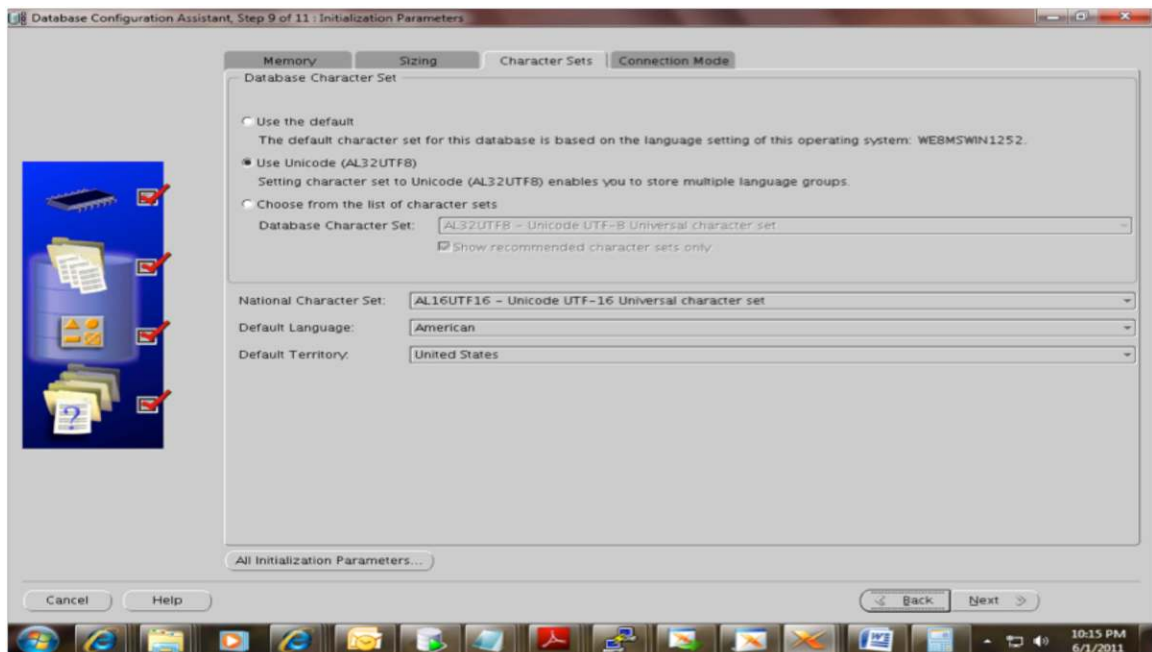


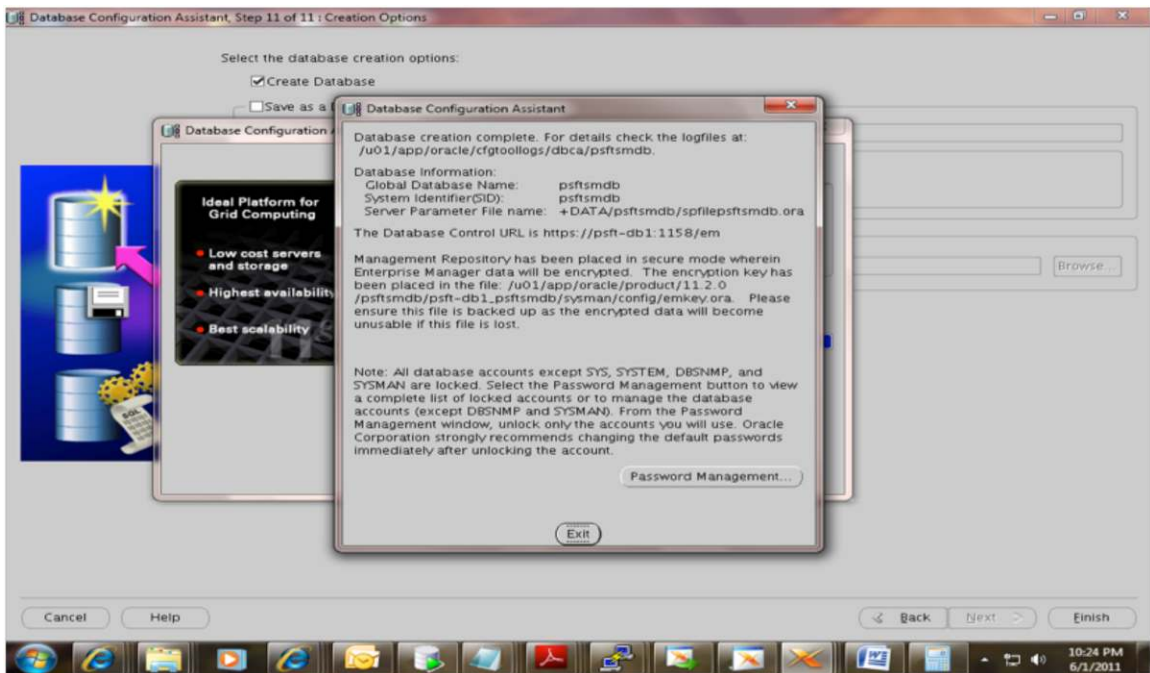
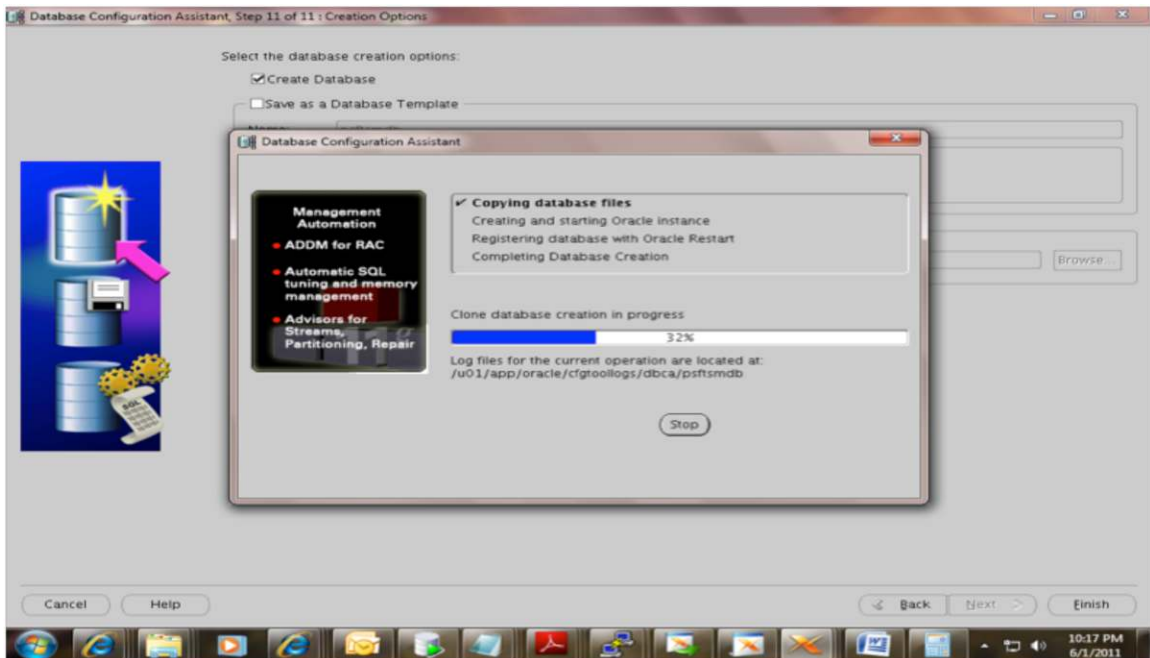












Oracle Tuxedo Installation on Database Server

Log in to the Oracle PeopleSoft database server box as psoft and follow the installation procedure shown here.

Note: Oracle Tuxedo installation was performed in console mode. The following listing shows the procedure captured during the Oracle Tuxedo installation on the database server.

```
[psft@psft-appl ~]$ cd /u01/software/Tuxedo10gR3-linux
[psft@psft-appl Tuxedo10gR3-linux]$ ls -ltr
total 83468
[psft@psft-appl Tuxedo10gR3-linux]$ ./tuxedo10gR3_64_Linux_01_x86.bin -i console
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...
Preparing CONSOLE Mode Installation...
=====
Choose Locale...
-----
->1- English
CHOOSE LOCALE BY NUMBER:
=====
Tuxedo 10gR3                      (created with InstallAnywhere by Macrovision)
-----
=====
Introduction
-----
InstallAnywhere will guide you through the Tuxedo 10gR3 installation.
It is strongly recommended that you quit all programs before continuing with this
installation.
Enter "next" to proceed to the next screen. Enter "back" to modify the previous
screen.
You may cancel this installation at any time by typing "quit".
WARNING: "Quitting" creates an incomplete Tuxedo 10gR3 installation. You must
re-install Tuxedo 10gR3. For more information, see "Preparing to Install the
Oracle Tuxedo System" in the Tuxedo 10gR3 Installation Guide.
PRESS <ENTER> TO CONTINUE:
=====
Choose Install Set
-----
Please choose the Install Set to be installed by this installer.
->1- Full Install
    2- Server Install
    3- Full Client Install
    4- Jolt Client Install
    5- ATMI Client Install
    6- CORBA Client Install
```

```

7- Customize...
ENTER THE NUMBER FOR THE INSTALL SET, OR PRESS <ENTER> TO ACCEPT THE DEFAULT :
=====
Choose Oracle Home
-----
1- Create new Oracle Home
2- Use existing Oracle Home
Enter a number:
Enter a number: 1
Specify a new Oracle Home directory: /u01/psoft/bea/tuxedo10gR3
=====
Choose Product Directory
-----
1- Modify Current Selection (/u01/psoft/bea/tuxedo10gR3/tuxedo10gR3)
2- Use Current Selection (/u01/psoft/bea/tuxedo10gR3/tuxedo10gR3)
Enter a number: 1
Specify Product Installation Directory: /u01/psoft/bea/tuxedo10gR3
Install Samples (Y/N): Y
1- Modify Current Selection (/u01/psoft/bea/tuxedo10gR3)
2- Use Current Selection (/u01/psoft/bea/tuxedo10gR3)
Enter a number: 2
Install Samples (Y/N): Y
=====
Pre-Installation Summary
-----
Please Review the Following Before Continuing:

Product Name:
    Tuxedo 10gR3
Install Folder:
    /u01/psoft/bea/tuxedo10gR3
Link Folder:
    /home/psoft
Disk Space Information (for Installation Target):
    Required: 195,536,693 bytes
    Available: 291,352,813,568 bytes
PRESS <ENTER> TO CONTINUE:
=====
Ready To Install
-----
InstallAnywhere is now ready to install Tuxedo 10gR3 onto your system at the
following location:
    /u01/psoft/bea/tuxedo10gR3
PRESS <ENTER> TO INSTALL:
=====
Installing...
-----

```



```

[=====|=====|=====|=====]
[-----|-----|-----|-----]
=====
Configure tlisten Service
-----
Password:
Verify Password:
Password Accepted! Press "Enter" to continue.
=====
SSL Installation Choice.
-----
Would you like to install SSL Support?
->1- Yes
    2- No
ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:
    : 2
=====
Installation Complete
-----
Congratulations. Tuxedo 10gR3 has been successfully installed to:
    /u01/psoft/bea/tuxedo10gR3
PRESS <ENTER> TO EXIT THE INSTALLER:

```

Oracle Tuxedo Patch Installation on Database Server

Log in to the Oracle PeopleSoft database server as psoft and follow the installation procedure shown here.

Note: Oracle Tuxedo patch installation was performed in console mode. The following listing shows the procedure captured during the Oracle Tuxedo patch installation on the application server.

```

[psft@psft-appl ~]$ export TUXDIR=/u01/psoft/bea/tuxedo10gR3
[psft@psft-appl ~]$ echo $TUXDIR
/u01/psoft/bea/tuxedo10gR3

[psft@psft-appl ~]$ echo $ORACLE_HOME
/u01/app/oracle/product/11.2.0/psft
[psft@psft-appl ~]$ cd /u01/software/Tuxedo10gr3-RP-linux-x86-64/p12746335_10300_Linux-x86-64/RP065
[psft@psft-appl RP065]$ ls -ltr
total 10772
-r-xr-xr-- 1 psoft oinstall    24347 Jul 23 10:54 uninstall
drwxr-xr-x 4 psoft oinstall    4096 Jul 23 10:54 udataobj
-rw-r--r-- 1 psoft oinstall    1360 Jul 23 10:54 README.txt
drwx----- 6 psoft oinstall    4096 Jul 23 10:54 locale
drwx----- 2 psoft oinstall    4096 Jul 23 10:54 lib
-r-xr-xr-- 1 psoft oinstall   38729 Jul 23 10:54 install
drwx----- 2 psoft oinstall    4096 Jul 23 10:54 bin
-rwxrwxrwx 1 psoft oinstall    4399 Sep  6 16:28 releasenotes.txt

```

```

-rwxrwxrwx 1 psoft oinstall      15715 Sep  6 16:28 README.html
-rwxrwxrwx 1 psoft oinstall       9566 Sep  6 16:28 patchlev
-rwxrwxrwx 1 psoft oinstall 10842803 Sep  6 16:28 RP065.tar.Z
[psft@psft-appl RP065]$ ./install
DIR=/u01/softwares/Tuxedo10gr3-RP-linux-x86-64/p12746335_10300_Linux-x86-64/RP065
rpreleasenote = SUSE LINUX Enterprise Server 10 (x86_64) x86 for AMD64, 64bits
Tuxedo
portreleasenotes= SUSE LINUX Enterprise Server 10 (x86_64) x86 for AMD64, 64bits
Tuxedo
Installing server and client files...
Enter owner for patch files:
psft
Enter group for patch files:
oinstall
The patch installation finished successfully.

```

Oracle PeopleTools 8.51 Installation on Database Server

Log in to the Oracle PeopleSoft database server as psoft and follow the installation procedure shown here.

Note: Oracle PeopleTools installation was performed in console mode. The following listing shows the procedure captured during the Oracle PeopleTools installation on the database server.

```

[psft@psft-appl ~]$ cd /u01/softwares/PT851-CDS/cd1/Disk1/InstData
[psft@psft-appl InstData]$ ls -ltr
total 1341968
-rwxrwxrwx 1 psoft oinstall    2459194 Apr  2  2009 emocmutl.jar
-rwxrwxrwx 1 psoft oinstall    37267075 Aug 29  2010 setup.exe
-rwxrwxrwx 1 psoft oinstall   216005302 Aug 29  2010 setup.aix
-rwxrwxrwx 1 psoft oinstall    97811126 Aug 29  2010 setup.hp
-rwxrwxrwx 1 psoft oinstall    54885046 Aug 29  2010 setup.linux
-rwxrwxrwx 1 psoft oinstall   149486262 Aug 29  2010 setup.linux
-rwxrwxrwx 1 psoft oinstall   118717110 Aug 29  2010 setup.hp-ia64
-rwxrwxrwx 1 psoft oinstall   574358435 Aug 29  2010 Resource1.zip
-rwxrwxrwx 1 psoft oinstall      118 Aug 29  2010 MediaId.properties
-rwxrwxrwx 1 psoft oinstall   121731766 Aug 29  2010 setup.zlinux
[psft@psft-appl InstData]$ ./setup.linux -i console
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...
Preparing CONSOLE Mode Installation...
=====
PeopleTools                                     (created with InstallAnywhere)
-----
=====

```

```

Welcome
-----
InstallAnywhere will guide you through the installation of PeopleTools 8.51.
PRESS <ENTER> TO CONTINUE:
=====
    Please enter your PeopleSoft license code []: zm7ky3w41m044u863q67oke1ms7t1f2
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
    Please select the Oracle database character set:
        ->1- Non-Unicode Database
            2- Unicode Database
    To select an item enter its number, or 0 when you are finished [0] : 2
    Please select the Oracle database character set:
        1- Non-Unicode Database
        ->2- Unicode Database
    To select an item enter its number, or 0 when you are finished [0] :
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
    For Oracle please select the products to install:
        ->1- PeopleSoft Application Server
        ->2- PeopleSoft Batch Server
        ->3- PeopleSoft Database Server
        ->4- PeopleSoft Web Server
    To select an item enter its number, or 0 when you are finished [0] :
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
    Please enter an installation location or press <ENTER> to accept the default
        (DEFAULT: /opt/PT8.51): /u01/psoft/pshome
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
    Provide your email address to be informed on security issues, install the
    product and initiate configuration manager. Easier for you if you use your My
    Oracle Support Email address/User Name. Visit
    http://www.oracle.com/support/policies.html for details
    Email address/ User Name (DEFAULT: ):
    You have not provided an email address
        Do you wish to remain uninformed of critical security issues in your
        configuration.          (Y/N): Y
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
        Please enter the hub machine name: [PSEMHUB]:
        Please enter the hub port number: [80]:
    Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
    =====
    Please select the features to install:
        ->1- PeopleTools
        ->2- PeopleTools System Database

```

```

To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Pre-Install Summary
Please review the following before continuing:
PeopleTools will be installed in the following location: /u01/psoft/pshome
with the following features:
PeopleTools
PeopleTools System Database
The following PeopleSoft Servers were selected by you:
PeopleSoft Application Server
PeopleSoft Batch Server
PeopleSoft Database Server
PeopleSoft Web Server
Database type: Oracle
Environment Hub Configuration:
Hub machine name: PSEMHub
Hub port number: 80
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Installing...
-----
[=====|=====|=====|=====]
[----- Insert New Media -----]
Please insert Disk2 or type its location.: /u01/software/PT851-CDS/cd2
-----|-----|-----|----- Insert New Media -----
Please insert Disk3 or type its location.: /u01/software/PT851-CDS/cd3
-----]
=====
Installation Complete
-----
Congratulations. PeopleTools has been successfully installed to:
/u01/psoft/pshome
PRESS <ENTER> TO EXIT THE INSTALLER:

```

Oracle PeopleTools 8.51.11 Patch Installation on Database Server

Log in to the Oracle PeopleSoft database server as psoft and follow the installation procedure shown here.

Note: Oracle PeopleTools patch installation was performed in console mode. The following listing shows the procedure captured during the Oracle PeopleTools patch installation on the database server.

```

[psft@psft-appl ~]$ cd /u01/software/85111-PATCH/cd85111/Disk1/InstData
[psft@psft-appl InstData]$ ls -ltr
total 1383984
-rwxrwxrwx 1 psoft oinstall 2459194 Apr 2 2009 emocmutl.jar
-rwxrwxrwx 1 psoft oinstall 37170092 Jun 30 12:09 setup.exe
-rwxrwxrwx 1 psoft oinstall 215908880 Jun 30 12:09 setup.aix

```

```
-rwxrwxrwx 1 psoft oinstall 97714704 Jun 30 12:09 setup.hp
-rwxrwxrwx 1 psoft oinstall 54788624 Jun 30 12:09 setup.linux
-rwxrwxrwx 1 psoft oinstall 149389840 Jun 30 12:09 setup.linux
-rwxrwxrwx 1 psoft oinstall 118620688 Jun 30 12:09 setup.hp-ia64
-rwxrwxrwx 1 psoft oinstall 618007113 Jun 30 12:09 Resource1.zip
-rwxrwxrwx 1 psoft oinstall 118 Jun 30 12:09 MediaId.properties
-rwxrwxrwx 1 psoft oinstall 121635344 Jun 30 12:09 setup.zlinux
```

```
[psoft@psft-app1 InstData]$ ./setup.linux -i console
```

```
Preparing to install...
```

```
Extracting the JRE from the installer archive...
```

```
Unpacking the JRE...
```

```
Extracting the installation resources from the installer archive...
```

```
Configuring the installer for this system's environment...
```

```
Launching installer...
```

```
Preparing CONSOLE Mode Installation...
```

```
=====
PeopleTools                                     (created with InstallAnywhere)
-----
```

```
=====
Welcome
-----
```

```
InstallAnywhere will guide you through the installation of PeopleTools 8.51.11.
PRESS <ENTER> TO CONTINUE:
```

```
=====
Please enter your PeopleSoft license code []: zm7ky3w4lm044u863q67okelms7t1f2
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
```

```
=====
Please select the Oracle database character set:
```

- >1- Non-Unicode Database
- 2- Unicode Database

```
To select an item enter its number, or 0 when you are finished [0] : 2
```

```
Please select the Oracle database character set:
```

- 1- Non-Unicode Database
- >2- Unicode Database

```
To select an item enter its number, or 0 when you are finished [0] :
```

```
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
```

```
=====
For Oracle please select the products to install:
```

- >1- PeopleSoft Application Server
- >2- PeopleSoft Batch Server
- >3- PeopleSoft Database Server
- >4- PeopleSoft Web Server

```
To select an item enter its number, or 0 when you are finished [0] :
```

```
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
```

```
=====
```

```

Please enter an installation location or press <ENTER> to accept the default
(DEFAULT: /opt/PT8.51.11): /u01/psoft/pshome
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Provide your email address to be informed on security issues, install the
product and initiate configuration manager. Easier for you if you use your My
Oracle Support Email address/User Name. Visit
http://www.oracle.com/support/policies.html for details
Email address/ User Name (DEFAULT: ):
You have not provided an email address
    Do you wish to remain uninformed of critical security issues in your
    configuration.          (Y/N): Y
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the features to install:
    ->1- PeopleTools
    ->2- PeopleTools System Database
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Pre-Install Summary
Please review the following before continuing:
PeopleTools will be installed in the following location: /u01/psoft/pshome with
the following features:
PeopleTools
PeopleTools System Database
The following PeopleSoft Servers were selected by you:
PeopleSoft Application Server
PeopleSoft Batch Server
PeopleSoft Database Server
PeopleSoft Web Server
Database type: Oracle
Environment Hub Configuration:
Hub machine name:
Hub port number:
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Installing...
-----
[=====|=====|=====|=====]
[-----|-----|-----|-----]
=====
Installation Complete
-----
Congratulations. PeopleTools has been successfully installed to:
    /u01/psoft/pshome
PRESS <ENTER> TO EXIT THE INSTALLER:

```

Oracle PeopleSoft HRMS 9.1 Installation on Database Server

Log in to the Oracle PeopleSoft database server as psoft and follow the installation procedure shown here.

Note: Oracle PeopleSoft HRMS application installation was performed in console mode. The following listing shows the procedure captured during the Oracle PeopleSoft HRMS application installation on the database server.

```
[psft@psft-appl ~]$ cd /u01/softwares/HRMS91featurepack-dec2010/V23382-01/Disk1/InstData
[psft@psft-appl InstData]$ ls -ltr
-rwxrwxrwx 1 psoft oinstall 54824825 Nov 2 2010 setup.linux
-rwxrwxrwx 1 psoft oinstall 97750905 Nov 2 2010 setup.hp
-rwxrwxrwx 1 psoft oinstall 41059115 Nov 2 2010 setup.exe
-rwxrwxrwx 1 psoft oinstall 215945081 Nov 2 2010 setup.aix
-rwxrwxrwx 1 psoft oinstall 9637753 Nov 2 2010 setup.zlinux
-rwxrwxrwx 1 psoft oinstall 149426041 Nov 2 2010 setup.linux
-rwxrwxrwx 1 psoft oinstall 118656889 Nov 2 2010 setup.hp-ia64
-rwxrwxrwx 1 psoft oinstall 595646325 Nov 2 2010 sesource1.zip
-rwxrwxrwx 1 psoft oinstall 118 Nov 2 2010 MediaId.properties
psft@psft-appl:/u01/softwares/HRMS91featurepack-dec2010/V23382-01/Disk1/InstData
[psft@psft-appl InstData]$ ./setup.linux -i console
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...
Launching installer...
Preparing CONSOLE Mode Installation...
=====
HR                                     (created with InstallAnywhere)
-----
=====
Welcome
-----
InstallAnywhere will guide you through the installation of PeopleSoft Human
Resources Management System 9.1: FP - Dec 2010 .
PRESS <ENTER> TO CONTINUE:
=====
Please enter your PeopleSoft license code []: 117fefffff8fffffebf197c32sm64u
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the Oracle database character set:
->1- Non-Unicode Database
2- Unicode Database
To select an item enter its number, or 0 when you are finished [0] : 2
Please select the Oracle database character set:
1- Non-Unicode Database
```



```

->2- Unicode Database
To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
For Oracle please select the products to install:
->1- PeopleSoft Application Server
->2- PeopleSoft Batch Server
->3- PeopleSoft Database Server
->4- PeopleSoft Web Server

To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please enter an installation location or press <ENTER> to accept the default
(DEFAULT: /opt/PT9.1): /u01/psoft/pshome
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :
=====
Please select the features to install:
->1- PeopleSoft HR Database
->2- PeopleSoft HR Demo Database
->3- PeopleSoft Absence Management
->4- PeopleSoft Benefits Administration
->5- PeopleSoft Candidate Gateway
->6- PeopleSoft Currency Conversion
->7- PeopleSoft Directory Interface
->8- PeopleSoft Enterprise Components
->9- PeopleSoft Global Payroll Argentina
->10- PeopleSoft Global Payroll Australia
->11- PeopleSoft Global Payroll Brazil
->12- PeopleSoft Global Payroll China
->13- PeopleSoft Global Payroll Core
->14- PeopleSoft Global Payroll France
->15- PeopleSoft Global Payroll Germany
->16- PeopleSoft Global Payroll Hong Kong
->17- PeopleSoft Global Payroll India
->18- PeopleSoft Global Payroll Italy
->19- PeopleSoft Global Payroll Japan
->20- PeopleSoft Global Payroll Malaysia
->21- PeopleSoft Global Payroll Mexico
->22- PeopleSoft Global Payroll Netherlands
->23- PeopleSoft Global Payroll New Zealand
->24- PeopleSoft Global Payroll Singapore
->25- PeopleSoft Global Payroll Spain
->26- PeopleSoft Global Payroll Switzerland
->27- PeopleSoft Global Payroll Thailand
->28- PeopleSoft Global Payroll UK
->29- PeopleSoft Global Payroll United States

```

-
- >30- PeopleSoft HRMS Portal Pack
 - >31- PeopleSoft Human Resources
 - >32- PeopleSoft Pay/Bill Management
 - >33- PeopleSoft Payroll Interface
 - >34- PeopleSoft Payroll Interface for ADP
 - >35- PeopleSoft Payroll for North America
 - >36- PeopleSoft Pension Administration
 - >37- PeopleSoft Recruit Workforce/Ltd TAM
 - >38- PeopleSoft Shared Components
 - >39- PeopleSoft Stock Administration
 - >40- PeopleSoft Succession Planning
 - >41- PeopleSoft Talent Acquisition Mgr
 - >42- PeopleSoft Time and Labor
 - >43- PeopleSoft eBenefits
 - >44- PeopleSoft eCompensation
 - >45- PeopleSoft eCompensation Mgr Desktop
 - >46- PeopleSoft eDevelopment
 - >47- PeopleSoft ePay
 - >48- PeopleSoft ePerformance
 - >49- PeopleSoft eProfile
 - >50- PeopleSoft eProfile Manager Desktop

To select an item enter its number, or 0 when you are finished [0] :
Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

=====

Pre-Install Summary

Please review the following before continuing:

HR will be installed in the following location: /u01/psoft/pshome with the following features:

PeopleSoft HR Database
PeopleSoft HR Demo Database
PeopleSoft Absence Management
PeopleSoft Benefits Administration
PeopleSoft Candidate Gateway
PeopleSoft Currency Conversion
PeopleSoft Directory Interface
PeopleSoft Enterprise Components
PeopleSoft Global Payroll Argentina
PeopleSoft Global Payroll Australia
PeopleSoft Global Payroll Brazil
PeopleSoft Global Payroll China
PeopleSoft Global Payroll Core
PeopleSoft Global Payroll France
PeopleSoft Global Payroll Germany
PeopleSoft Global Payroll Hong Kong
PeopleSoft Global Payroll India
PeopleSoft Global Payroll Italy

PeopleSoft Global Payroll Japan
PeopleSoft Global Payroll Malaysia
PeopleSoft Global Payroll Mexico
PRESS <ENTER> TO CONTINUE:
PeopleSoft Global Payroll Netherlands
PeopleSoft Global Payroll New Zealand
PeopleSoft Global Payroll Singapore
PeopleSoft Global Payroll Spain
PeopleSoft Global Payroll Switzerland
PeopleSoft Global Payroll Thailand
PeopleSoft Global Payroll UK
PeopleSoft Global Payroll United States
PeopleSoft HRMS Portal Pack
PeopleSoft Human Resources
PeopleSoft Pay/Bill Management
PeopleSoft Payroll Interface
PeopleSoft Payroll Interface for ADP
PeopleSoft Payroll for North America
PeopleSoft Pension Administration
PeopleSoft Recruit Workforce/Ltd TAM
PeopleSoft Shared Components
PeopleSoft Stock Administration
PeopleSoft Succession Planning
PeopleSoft Talent Acquisition Mgr
PeopleSoft Time and Labor
PeopleSoft eBenefits
PRESS <ENTER> TO CONTINUE:
PeopleSoft eCompensation
PeopleSoft eCompensation Mgr Desktop
PeopleSoft eDevelopment
PeopleSoft ePay
PeopleSoft ePerformance
PeopleSoft eProfile
PeopleSoft eProfile Manager Desktop
The following PeopleSoft Servers were selected by you:
PeopleSoft Application Server
PeopleSoft Batch Server
PeopleSoft Database Server
PeopleSoft Web Server
Database type: Oracle

Press 1 for Next, 2 for Previous, 3 to Cancel or 5 to Redisplay [1] :

=====

Installing...

```
[===== | ===== | ===== | =====]  
[----- | ----- | ----- | -----]
```

```

=====
Installation Complete
-----

Congratulations. PeopleSoft Human Resources Management System 9.1: FP - Dec
2010 has been successfully installed to:

    /u01/psoft/pshome

PRESS <ENTER> TO EXIT THE INSTALLER:
psft@psft-appl:/u01/software/HRMS91featurepack-dec2010/V23382-01/Disk1/InstData
[psft@psft-appl InstData]$ exit
exit

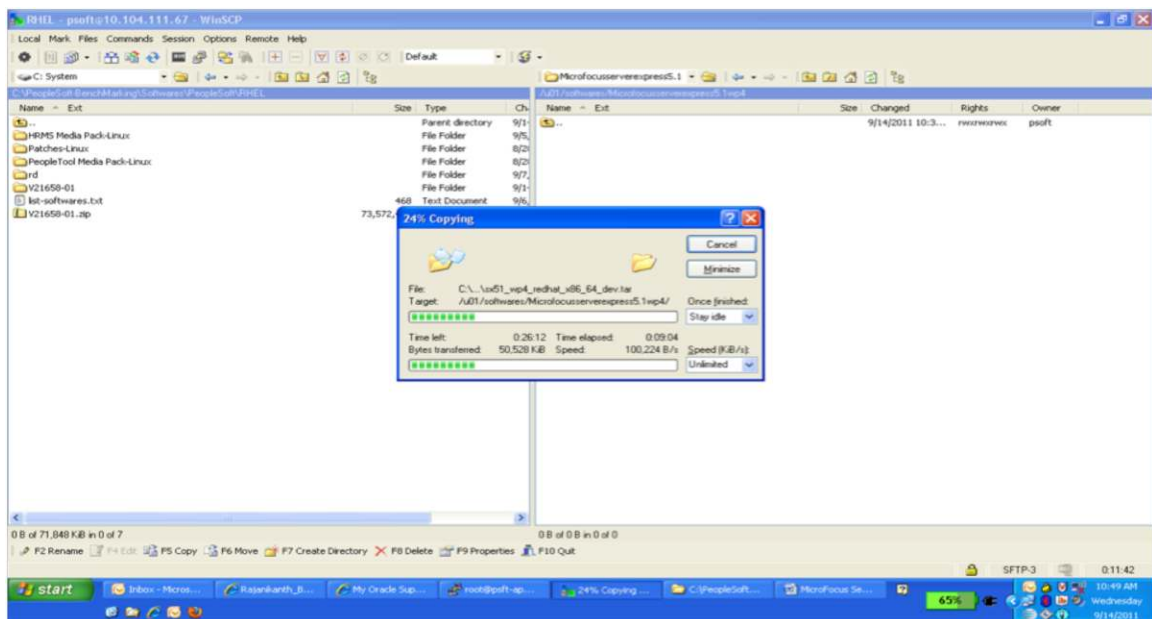
```

Oracle Micro Focus Server Express 5.1wp4 Installation on Database Server

Login to the database server as the root user.

Create a directory (if one does not exist) for installing Oracle Micro Focus Server Express 5.1 WP4: for example,
Mkdir /u01/products/mf/svrex-51_wp4-64bit.

Transfer the downloaded software to the this folder. It is a tar file: sx51_wp4_redhat_x86_64_dev.tar.



Extract the tar file using this command

```

[root@psft-appl svrex-51_wp4-64bit]# pwd
/u01/products/mf/svrex-51_wp4-64bit
[root@psft-appl svrex-51_wp4-64bit]# ls -ltr
total 204600
-rw-r--r-- 1 root root 209295360 Sep 14 11:55 sx51_wp4_redhat_x86_64_dev.tar

```

Run the following command:

```
$tar -xvf sx51_wp4_redhat_x86_64_dev.tar
```

List the files in the folder /u01/products/mf/svrex-51_wp4-64bit:

```
[root@psft-appl svrex-51_wp4-64bit]# pwd
/u01/products/mf/svrex-51_wp4-64bit
[root@psft-appl svrex-51_wp4-64bit]# ls -ltr
total 204836
-r--r--r-- 1 root root      10455 Nov 20  2009 ADISCTRL
dr-xr-xr-x 10 root root       4096 Nov 20  2009 terminfo
-r-xr-xr-x 1 root root     12719 Nov 20  2009 install
dr-xr-xr-x 2 root root       4096 Nov 20  2009 xdb
dr-xr-xr-x 2 root root       4096 Nov 20  2009 aslmf
dr-xr-xr-x 6 root root       4096 Nov 20  2009 lmf
-r--r--r-- 1 root root     11949 Nov 20  2009 eslmf-mess
dr-xr-xr-x 2 root root       4096 Nov 20  2009 include
dr-xr-xr-x 17 root root      4096 Nov 20  2009 lang
dr-xr-xr-x 4 root root       4096 Nov 20  2009 es
dr-xr-xr-x 2 root root       4096 Nov 20  2009 dynload
dr-xr-xr-x 2 root root       4096 Nov 20  2009 deploy
dr-xr-xr-x 2 root root       4096 Nov 20  2009 dynload64
dr-xr-xr-x 2 root root       4096 Nov 20  2009 dialog
dr-xr-xr-x 2 root root       4096 Nov 20  2009 cpylib
dr-xr-xr-x 8 root root     28672 Nov 20  2009 lib
dr-xr-xr-x 6 root root       4096 Nov 20  2009 etc
dr-xr-xr-x 3 root root       4096 Nov 20  2009 snmp
dr-xr-xr-x 8 root root       4096 Nov 20  2009 src
dr-xr-xr-x 28 root root      4096 Nov 20  2009 demo
dr-xr-xr-x 6 root root       4096 Nov 20  2009 docs
dr-xr-xr-x 4 root root     12288 Nov 20  2009 bin
-rw-r--r-- 1 root root 209295360 Sep 14 11:55 sx51_wp4_redhat_x86_64_dev.tar
```

Follow the installation procedure shown here, captured during the installation process:

```
[root@psft-appl ~]# cd /u01/products/mf/svrex-51_wp4-64bit
root@psft-appl:/u01/products/mf/svrex-51_wp4-64bit
[root@psft-appl svrex-51_wp4-64bit]# ./install
++ uname -s
+ test Linux = Linux
+ echocmd='echo -e'
+ SCCSid='@(#) install 5.1'
+ umask 000
+ DEFCOBDIR=/opt/microfocus/cobol
+ DEFBIN=/opt/microfocus/bin
+ case $0 in
++ pwd
++ dirname install
```

```

+ RELCOBDIR=/u01/products/mf/svrex-51_wp4-64bit/.
++ command -v cobgetmsg
+ test . = .
++ echo
++ sed -e 's:/ /g'
+ for dir in '$RELCOBDIR' ``echo $COBDIR | sed -e '\`'s:/ /g'\`''
+ case ".$dir" in
+ test -x /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg
+ COBGETMSG=/u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg
+ break
+ test ./u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg = .
+ GETMSG='/u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 1:1
+ test '!' -w /etc/passwd
+ cd /u01/products/mf/svrex-51_wp4-64bit/.
++ pwd
+ BASE=/u01/products/mf/svrex-51_wp4-64bit
+ COBDIR=/u01/products/mf/svrex-51_wp4-64bit
+ test '!' -f /u01/products/mf/svrex-51_wp4-64bit/docs/env.txt
+ '[' -f /u01/products/mf/svrex-51_wp4-64bit/etc/mfreg.dat ']'
+ unset COBPATH
+ unset COBDATA
+ COBSW=
+ export COBSW
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 30 'Micro Focus Server
Express' 5.1

```

This script will install Micro Focus Server Express 5.1 on this computer.

```

+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 31 readme.txt
/u01/products/mf/svrex-51_wp4-64bit/docs

```

The readme.txt file included in this delivery contains details of new features, enhancements and any restrictions of which you should be aware. This file is located in :

```

/u01/products/mf/svrex-51_wp4-64bit/docs

```

It is strongly recommend to read this file once the installation is complete.

```

+ cont
+ yorn 1:4
+ YN=b
+ '[' b '!=' n -a b '!=' no -a b '!=' N -a b '!=' NO -a b '!=' y -a b '!=' yes -a
b '!=' Y -a b '!=' YES -a b '!=' Yes -a b '!=' No ']'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 1:4

```

```

Do you wish to continue (y/n): + read YN
Y
+ '[' y = y -o y = yes -o y = Yes -o y = Y -o y = YES ']'
+ return 1
+ res=1
+ '[' 1 '!=' 1 ']'
+ test '!' -f /tmp/mf_lic_acpt
+ sep
+ echo -e

+ echo -e -----
-----

+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 40,41
Before installing and using this software product you must
agree to be bound by the terms and conditions of the end user
license agreement ("License Agreement") which accompanies this product.
Please take this time to read the License Agreement. If you are not in
agreement with the terms and conditions of the License Agreement, please
return the product to your Account Representative and your money will
be refunded. If you require a replacement copy of the License
Agreement, please contact your Account Representative before proceeding
with the install process.

+ yorn 42
+ YN=b
+ '[' b '!=' n -a b '!=' no -a b '!=' N -a b '!=' NO -a b '!=' y -a b '!=' yes -a
b '!=' Y -a b '!=' YES -a b '!=' Yes -a b '!=' No ']'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 42
Do you agree to the terms of the License Agreement? (y/n): + read YN
Y
+ '[' y = y -o y = yes -o y = Yes -o y = Y -o y = YES ']'
+ return 1
+ clk_ans=1
+ '[' 1 '!=' 1 ']'
+ '[' '' '!=' noplatformcheck ']'
++ uname -s
+ osname=Linux
+ '[' .Linux = . ']'
++ uname -r
+ oslevel=2.6.18-238.el5
+ '[' .2.6.18-238.el5 = . ']'
+ grep 'Linux 2.6.18-238.el5' /u01/products/mf/svrex-51_wp4-64bit/docs/env.txt
+ rc=1
+ '[' 1 '!=' 0 ']'

```



```

++ sed -n '/^Operating System/,/^$/p' /u01/products/mf/svrex-51_wp4-
64bit/docs/env.txt
++ sed -n '3,/^$/p'
+ builtos='Linux 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)'
++ sed -n '/^Operating System$/,/^$/p' /u01/products/mf/svrex-51_wp4-
64bit/docs/env.txt
++ grep -v '^$'
++ grep -v '^Operating System'
++ grep -v '^-----'
+ compatos='Linux 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
Linux 2.6.9-67.ELsmp i686
Red Hat Enterprise Linux ES release 4 (Nahant Update 6)
Linux 2.6.18-164.el5 x86_64
Red Hat Enterprise Linux Server release 5.4 (Tikanga)
Linux 2.6.18-164.el5 i686
Red Hat Enterprise Linux Server release 5.4 (Tikanga)'
+ sep
+ echo -e
+ echo -e -----
-----

+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 50,51,52 'Linux 2.6.9-
11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)' Linux 2.6.18-238.el5

```

Micro Focus Install

This product was not built or tested on this version
of the Operating System.

This product was built on Operating System:

```

Linux 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
and you are installing it on Operating System:
Linux 2.6.18-238.el5
+ '[' -f /etc/SuSE-release ']'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 53 'Linux 2.6.9-11.ELsmp
x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
Linux 2.6.9-67.ELsmp i686
Red Hat Enterprise Linux ES release 4 (Nahant Update 6)
Linux 2.6.18-164.el5 x86_64
Red Hat Enterprise Linux Server release 5.4 (Tikanga)

```

Linux 2.6.18-164.el5 i686

Red Hat Enterprise Linux Server release 5.4 (Tikanga)'

Any product issues you report will only be corrected if
they can be reproduced on one of our systems running:

Linux 2.6.9-11.ELsmp x86_64

Red Hat Enterprise Linux AS release 4 (Nahant Update 1)

Linux 2.6.9-67.ELsmp i686

Red Hat Enterprise Linux ES release 4 (Nahant Update 6)

Linux 2.6.18-164.el5 x86_64

Red Hat Enterprise Linux Server release 5.4 (Tikanga)

Linux 2.6.18-164.el5 i686

Red Hat Enterprise Linux Server release 5.4 (Tikanga)

+ yorn 2

+ YN=b

+ '[' b '!=' n -a b '!=' no -a b '!=' N -a b '!=' NO -a b '!=' y -a b '!=' yes -a
b '!=' Y -a b '!=' YES -a b '!=' Yes -a b '!=' No ']'

+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 2

Please confirm that you want to continue with this installation (y/n): + read YN

Y

+ '[' y = y -o y = yes -o y = Yes -o y = Y -o y = YES ']'

+ return 1

+ decision=1

+ '[' 1 '!=' 1 ']'

+ builtchip=x86_64

+ compatchip=i686

++ uname -m

+ chipname=x86_64

+ '[' .x86_64 = . ']'

+ test x86_64 '!=' x86_64 -a x86_64 '!=' i686

+ export COBDIR

+ cd /u01/products/mf/svrex-51_wp4-64bit

+ sep

+ echo -e

+ echo -e -----

+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 60

When you press return you will be shown details of the reference
environment (and any compatibility environments).

Please press return when you are ready: + read ready

+ echo -e

+ more docs/env.txt

*This product is certified on the following reference environment:
The command(s) used to gather the information is given following each entry.*

Operating System

*Linux 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
uname -s
uname -r
uname -m
cat /etc/redhat-release*

C Compiler

*cc gcc version 3.4.6 20060404 (Red Hat 3.4.6-9)
gcc -v 2>&1 | tail -1*

C++ Compiler

*/usr/bin/g++ gcc version 3.4.6 20060404 (Red Hat 3.4.6-9)
g++ -v 2>&1 | tail -1*

Assembler

*as GNU assembler version 2.15.92.0.2 (x86_64-redhat-linux) using BFD version
2.15.92.0.2 20040927
as -v 2>&1 < /dev/null*

Linker

*ld GNU ld version 2.15.92.0.2 20040927
ld -V 2>&1 | head -1*

Supported versions of Java

*Java version = 1.4.2_03
Java vendor = Sun Microsystems Inc.
Java OS name = Linux
Java OS arch = i386
--More--(20%)
Java OS version = 2.6.9-11.ELsmp
Java version = 1.5.0_07
Java vendor = Sun Microsystems Inc.
Java OS name = Linux
Java OS arch = i386
Java OS version = 2.6.9-11.ELsmp
Java version = 1.5.0_07*

```
Java vendor = Sun Microsystems Inc.
Java OS name = Linux
Java OS arch = amd64
Java OS version = 2.6.9-11.ELsmp
Java version = 1.6.0_15
Java vendor = Sun Microsystems Inc.
Java OS name = Linux
Java OS arch = i386
Java OS version = 2.6.9-11.ELsmp
Java version = 1.6.0_15
Java vendor = Sun Microsystems Inc.
Java OS name = Linux
Java OS arch = amd64
Java OS version = 2.6.9-11.ELsmp
```

```
$JAVA_HOME/bin/java -classpath $COBDIR/lib WhatJava
Unicode
```

```
-----
Unicode mapping tables must be installed for J2EE and Web Services to
function correctly. These tables are required for converting between
any combination of UTF-16/UCS-2, UTF-8 and other installed locales.
```

```
COBOL/J2EE Connectivity
```

```
-----
COBOL/J2EE connectivity is supported on this Reference Environment with the
following Application Server products :
```

- o JBoss 4.0.2
- o Oracle 10.1.2.0
- o Oracle 10.1.3.0
- o BEA WebLogic 8.1
- More--(45%) o BEA WebLogic 9.0
- o IBM WebSphere 6.0
- o IBM WebSphere 6.1
- o IBM WebSphere 7.0

```
See the on-disk readme, $COBDIR/docs/readme.txt, for further information.
```

```
-----
This product is also certified on the following environment:
```

```
Operating System
```

```
-----
Linux 2.6.9-67.ELsmp i686
Red Hat Enterprise Linux ES release 4 (Nahant Update 6)
uname -s
uname -r
uname -m
```

```
cat /etc/redhat-release
```

```
C Compiler
```

```
-----
```

```
cc gcc version 3.4.6 20060404 (Red Hat 3.4.6-9)
```

```
cc -v 2>&1 | tail -1
```

```
C++ Compiler
```

```
-----
```

```
/usr/bin/g++ gcc version 3.4.6 20060404 (Red Hat 3.4.6-9)
```

```
g++ -v 2>&1 | tail -1
```

```
Assembler
```

```
-----
```

```
as GNU assembler version 2.15.92.0.2 (i386-redhat-linux) using BFD version  
2.15.92.0.2 20040927
```

```
as -v 2>&1 < /dev/null
```

```
--More--(63%)
```

```
Linker
```

```
-----
```

```
ld GNU ld version 2.15.92.0.2 20040927
```

```
ld -V 2>&1 | head -1
```

```
-----  
This product is also certified on the following environment:
```

```
Operating System
```

```
-----
```

```
Linux 2.6.18-164.el5 x86_64
```

```
Red Hat Enterprise Linux Server release 5.4 (Tikanga)
```

```
uname -s
```

```
uname -r
```

```
uname -m
```

```
cat /etc/redhat-release
```

```
C Compiler
```

```
-----
```

```
cc gcc version 4.1.2 20080704 (Red Hat 4.1.2-46)
```

```
gcc -v 2>&1 | tail -1
```

```
C++ Compiler
```

```
-----
```

```
/usr/bin/g++ gcc version 4.1.2 20080704 (Red Hat 4.1.2-46)
```

```
g++ -v 2>&1 | tail -1
```

```
Assembler
```

```
-----
```

```
as GNU assembler version 2.17.50.0.6-12.el5 (x86_64-redhat-linux) using BFD  
version 2.17.50.0.6-12.el5 20061020
```

```
as -v 2>&1 < /dev/null
```

```
--More--(80%)
```

```
Linker
```

```
-----
```

```

ld GNU ld version 2.17.50.0.6-12.el5 20061020
ld -V 2>&1 | head -1
-----
This product is also certified on the following environment:
Operating System
-----
Linux 2.6.18-164.el5 i686
Red Hat Enterprise Linux Server release 5.4 (Tikanga)
uname -s
uname -r
uname -m
cat /etc/redhat-release
C Compiler
-----
cc gcc version 4.1.2 20080704 (Red Hat 4.1.2-46)
gcc -v 2>&1 | tail -1
C++ Compiler
-----
/usr/bin/g++ gcc version 4.1.2 20080704 (Red Hat 4.1.2-46)
g++ -v 2>&1 | tail -1
Assembler
-----
as GNU assembler version 2.17.50.0.6-12.el5 (i386-redhat-linux) using BFD version
2.17.50.0.6-12.el5 20061020
More--(97%)
as -v 2>&1 < /dev/null
Linker
-----
ld GNU ld version 2.17.50.0.6-12.el5 20061020
ld -V 2>&1 | head -1
+ yorn 61
+ YN=b
+ '[' b '!=' n -a b '!=' no -a b '!=' N -a b '!=' NO -a b '!=' y -a b '!=' yes -a
b '!=' Y -a b '!=' YES -a b '!=' Yes -a b '!=' No ']'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 61
Please confirm your understanding of the above reference environment
details (y/n): + read YN
y
+ '[' y = y -o y = yes -o y = Yes -o y = Y -o y = YES ']'
+ return 1
+ env_ans=1
+ '[' 1 '!=' 1 ']'
+ LD_LIBRARY_PATH=/u01/products/mf/svrex-51_wp4-64bit/lib:
+ export LD_LIBRARY_PATH
+ SHLIB_PATH=/u01/products/mf/svrex-51_wp4-64bit/lib:

```

```

+ export SHLIB_PATH
+ LIBPATH=/u01/products/mf/svrex-51_wp4-64bit/lib:
+ export LIBPATH
+ bin/cobconvstrtest -s
+ case $? in
+ test '!' -f etc/cobver
+ trap 'trap 0; /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 5; exit 1' 2 3 14 15
+ set -e
+ trap '/u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 6; exit 1' 0
+ cd /u01/products/mf/svrex-51_wp4-64bit
+ LD_LIBRARY_PATH=/u01/products/mf/svrex-51_wp4-
64bit/lib:/u01/products/mf/svrex-51_wp4-64bit/lib:
+ export LD_LIBRARY_PATH
+ chmod 755 /u01/products/mf/svrex-51_wp4-64bit
+ test -d /u01/products/mf/svrex-51_wp4-64bit/lib
+ cd /u01/products/mf/svrex-51_wp4-64bit/lib
+ SEARCHDIR=/usr/lib
+ SEARCHDIR2=/lib
+ SEARCHFILE=libc
+ test '!' -f /usr/lib/libc.a -a '!' -f /lib/libc.a
+ GCCINCDIR=
+ GCCLIBDIR=
+ GCCLIBDIR64=
+ BLTLIBDIR=/usr/lib/gcc/x86_64-redhat-linux/3.4.6
+ BLTLIBDIR32=/usr/lib/gcc/x86_64-redhat-linux/3.4.6/32
+ '[' -d /usr/lib/gcc/x86_64-redhat-linux/4.1.2 ']'
+ GCCINCDIR=/usr/lib/gcc/x86_64-redhat-linux/4.1.2/include
+ GCCLIBDIR=/usr/lib/gcc/x86_64-redhat-linux/4.1.2/32
+ GCCLIBDIR64=/usr/lib/gcc/x86_64-redhat-linux/4.1.2
+ '[' -f /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt ']'
+ '[' x./usr/lib/gcc/x86_64-redhat-linux/4.1.2/32 '!=' x. ']'
+ chmod 644 /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt
+ ed /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt
+ chmod 444 /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt
+ '[' -f /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt64 ']'
+ '[' x./usr/lib/gcc/x86_64-redhat-linux/4.1.2 '!=' x. ']'
+ chmod 644 /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt64
+ ed /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt64
+ chmod 444 /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt64
+ '[' x./usr/lib/gcc/x86_64-redhat-linux/4.1.2/include '!=' x. ']'
+ '[' -f /u01/products/mf/svrex-51_wp4-64bit/demo/c-cobol/ccob1.sh ']'
+ chmod 755 /u01/products/mf/svrex-51_wp4-64bit/demo/c-cobol/ccob1.sh
+ '[' x. = x. ']'
+ ed /u01/products/mf/svrex-51_wp4-64bit/demo/c-cobol/ccob1.sh

```

```

+ chmod 555 /u01/products/mf/svrex-51_wp4-64bit/demo/c-cobol/ccob1.sh
+ set +e
+ trap '' 0
+ grep '^Red Hat .* 4 ' /etc/issue
+ '[' 1 -eq 0 ']'
+ grep '^Red Hat .* 4 ' /etc/issue
+ '[' 1 -eq 0 ']'
+ '[' x. = x. ']'
+ gcc_search_path_val64='$GCC_LIB:/usr/lib64:/usr/lib'
+ '[' x. = x. ']'
+ gcc_excep_lib_val64=gcc_s
+ cp /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt64 /u01/products/mf/svrex-
51_wp4-64bit/etc/cobopt64.16241
+ chmod 644 /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt64
+ sed -e 's#GCC_SEARCH_PATH=.*#GCC_SEARCH_PATH=$GCC_LIB:/usr/lib64:/usr/lib#' -e
's#GCC_EXCEP_LIB=.*#GCC_EXCEP_LIB=gcc_s#' /u01/products/mf/svrex-51_wp4-
64bit/etc/cobopt64.16241
+ chmod 444 /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt64
+ rm -f /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt64.16241
+ '[' x. = x. ']'
+ gcc_search_path_val='$GCC_LIB:/usr/lib:/lib'
+ '[' x. = x. ']'
+ gcc_excep_lib_val=gcc_s
+ cp /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt /u01/products/mf/svrex-
51_wp4-64bit/etc/cobopt.16241
+ chmod 644 /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt
+ sed -e 's#GCC_SEARCH_PATH=.*#GCC_SEARCH_PATH=$GCC_LIB:/usr/lib:/lib#' -e
's#GCC_EXCEP_LIB=.*#GCC_EXCEP_LIB=gcc_s#' /u01/products/mf/svrex-51_wp4-
64bit/etc/cobopt.16241
+ chmod 444 /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt
+ rm -f /u01/products/mf/svrex-51_wp4-64bit/etc/cobopt.16241
+ cd /u01/products/mf/svrex-51_wp4-64bit
+ set_java_version
+ sep
+ echo -e
+ echo -e -----
-----

+ yorn 10
+ YN=b
+ '[' b != n -a b != no -a b != N -a b != NO -a b != y -a b != yes -a
b != Y -a b != YES -a b != Yes -a b != No ']'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 10
Do you want to make use of COBOL and Java working together? (y/n): + read YN
n
+ '[' n = y -o n = yes -o n = Yes -o n = Y -o n = YES ']'
+ '[' n = n -o n = no -o n = No -o n = N -o n = NO ']'

```



```

+ return 0
+ test 0 -eq 1
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 11
/u01/products/mf/svrex-51_wp4-64bit/bin/java_setup
Skipping Java setup
Should you want to use Java with COBOL later on
as super user run the command /u01/products/mf/svrex-51_wp4-64bit/bin/java_setup
to select the version of Java you want to use.
+ cd /u01/products/mf/svrex-51_wp4-64bit/lib
+ return 0
+ test -d /u01/products/mf/svrex-51_wp4-64bit/lmf
+ sep
+ echo -e
+ echo -e -----
-----

+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 90
This product is protected using the Micro Focus License Management
Facility (LMF). Please refer to the Development System Licensing Guide
for information relating to the installation of the licensing system
and licenses.
+ mkdir -p /var/mfaslmf
+ chmod 777 /var/mfaslmf
+ adminidir=
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 91
If you do not have LMF installed or want to upgrade to the latest version,
it is recommended to install it now.
+ yorn 92
+ YN=b
+ '[' b !=' n -a b !=' no -a b !=' N -a b !=' NO -a b !=' y -a b !=' yes -a
b !=' Y -a b !=' YES -a b !=' Yes -a b !=' No ']'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 92
Would you like to install LMF now? (y/n): + read YN
y
+ '[' y = y -o y = yes -o y = Yes -o y = Y -o y = YES ']'
+ return 1
+ lmf_ans=1
+ case "$lmf_ans" in
+ export COBDIR
+ LD_LIBRARY_PATH=/u01/products/mf/svrex-51_wp4-
64bit/lib:/u01/products/mf/svrex-51_wp4-64bit/lib:/u01/products/mf/svrex-
51_wp4-64bit/lib:
+ export LD_LIBRARY_PATH

```

```

+ PATH=/u01/products/mf/svrex-51_wp4-64bit/bin:/usr/kerberos/sbin:/usr/kerberos/bin:/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin:/root/bin
+ export PATH
++ pwd
+ thisd=/u01/products/mf/svrex-51_wp4-64bit/lib
+ cd /u01/products/mf/svrex-51_wp4-64bit/lmf
+ sh lmfinstall

```

Enter the directory name where you wish to install License Manager

(Press Enter for default directory /opt/microfocus/mflmf)

/u01/products/mf/mflmf-svrex-51_wp4-64bit

/u01/products/mf/mflmf-svrex-51_wp4-64bit does not exist

do you wish to create it ? (y/n)

y

Empty database created ok

Do you want only superuser to be able to access the License Admin System? (y/n)

y

It is recommended that you let license manager autostart at boot time

Do you want license manager to be automatically started at boot time? (y/n)

y

LMF installation complete

```
+ cd /u01/products/mf/svrex-51_wp4-64bit/lib
```

```
+ '[' -f /tmp/lmfinstalldir ']'
```

```
++ cat /tmp/lmfinstalldir
```

```
+ adminidir=/u01/products/mf/mflmf-svrex-51_wp4-64bit
```

```
+ lmfinstallok=1
```

```
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
```

```
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 94 mfllicense
```

Please consult the Development Licensing Guide for detailed information on how to install licenses.

This may be done by running the mfllicense tool.

```
+ cd /u01/products/mf/svrex-51_wp4-64bit
```

```
+ sep
```

```
+ echo -e
```

```
+ echo -e -----
```

```
+ sh ./aslmf/aslmfinstall
```

To run your applications you need a deployment license installed using Apptrack. See your Deployment Licensing Guide for details.

Installing Apptrack...

Access permissions on directory /var/mfaslmf have changed on this release

Write access permission has been removed except for superuser use

Apptrack installation complete

```
+ modnum=0
```

```

+ '[' -d /u01/products/mf/svrex-51_wp4-64bit/dynload64 ']'
+ modnum=1
+ '[' -d /u01/products/mf/svrex-51_wp4-64bit/dynload ']'
++ expr 1 + 2
+ modnum=3
+ sep
+ echo -e
+ echo -e -----
-----

+ case $modnum in
+ /u01/products/mf/svrex-51_wp4-64bit/bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 111,112
This product can be used in either 32-bit or 64-bit modes.
Please enter either 32 or 64 to set the system default mode: + read mod
64
+ '[' 64 '!=' 32 -a 64 '!=' 64 ']'
+ /u01/products/mf/svrex-51_wp4-64bit/bin/cobmode -s 64
+ /u01/products/mf/svrex-51_wp4-64bit/bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 114 64
System default COBMODE has been set to 64.
+ '[' -f /u01/products/mf/svrex-51_wp4-64bit/docs/html/asdocs.tar ']'
+ cat
+ '[' -f /u01/products/mf/svrex-51_wp4-64bit/bin/es_install ']'
+ /u01/products/mf/svrex-51_wp4-64bit/bin/es_install
-----

Installing documentation. Please wait...
-----

Enterprise Server provides a scalable, managed and high-performance
transactional environment for the deployment of COBOL applications
and services, COBOL/J2EE applications and direct COBOL Web Services.

Your Enterprise Server requires configuration. You can either do it now
or later. To do it now you need to know the alphanumeric user ID of the
Enterprise Server System Administrator.
To do it later, enter the following commands whilst logged in as root :
/u01/products/mf/svrex-51_wp4-64bit/bin/eslminstall
/u01/products/mf/svrex-51_wp4-64bit/bin/casperm

Do you wish to configure Enterprise Server now? (y/n): n
+ '[' -d /u01/products/mf/svrex-51_wp4-64bit/src/enterpriseserver/xa ']'
+ chmod 777 /u01/products/mf/svrex-51_wp4-64bit/src/enterpriseserver/xa
+ '[' '' = configureopenldap ']'
++ /u01/products/mf/svrex-51_wp4-64bit/bin/cobgetmsg -
p/u01/products/mf/svrex-51_wp4-64bit/. mfinfo.lng 3
+ lang=en
+ test .en = .ja

```

```

+ '[' -f /u01/products/mf/svrex-51_wp4-64bit/xd-51/xd-51.tar ']'
+ sep
+ echo -e
+ echo -e -----
-----

+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 120
XDB is a fully-functional ANSI-compliant relational database
management system, providing support for SQL data access for
development purposes.

+ yorn 121
+ YN=b
+ '[' b != n -a b != no -a b != N -a b != NO -a b != y -a b != yes -a
b != Y -a b != YES -a b != Yes -a b != No ']'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 121
Do you want to install XDB? (y/n): + read YN
n
+ '[' n = y -o n = yes -o n = Yes -o n = Y -o n = YES ']'
+ '[' n = n -o n = no -o n = No -o n = N -o n = NO ']'
+ return 0
+ xdb_ans=0
+ '[' 0 -eq 1 ']'
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 122 'sh
/u01/products/mf/svrex-51_wp4-64bit/xd-51/xd-51_install'
Skipping XDB install.
Should you want to install XDB later on, run the following command
as the root user :
sh /u01/products/mf/svrex-51_wp4-64bit/xd-51/xd-51_install
+ sep
+ echo -e
+ echo -e -----
-----

+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 130
/u01/products/mf/svrex-51_wp4-64bit LD_LIBRARY_PATH
(remember to set COBDIR to /u01/products/mf/svrex-51_wp4-64bit,
include /u01/products/mf/svrex-51_wp4-64bit/lib in LD_LIBRARY_PATH
and include /u01/products/mf/svrex-51_wp4-64bit/bin on your PATH)
+ /u01/products/mf/svrex-51_wp4-64bit/bin/services
+ /u01/products/mf/svrex-51_wp4-64bit/./bin/cobgetmsg -s2 -
p/u01/products/mf/svrex-51_wp4-64bit/. -e install.lng 140,141
WARNING: Any executables (whether a Run-Time System or an application)
must be relinked using this new release. Otherwise, the results of

```

The COBOL system is ready to use.

```
COBDIR=/psft_app/products/mf/svrexpr-51_wp4-64bit
export COBDIR
add /$COBDIR/lib to the LD_LIBRARY_PATH variable
add /$COBDIR/bin to the PATH variable
```

- Log in to the 10.104.111.67 server using Telnet from the command prompt. The user should be root.
cd /u01/products/mf/mflmf-svexp-51_wp4-64bit
./mflmadm



- ```

renopsfl.app1:/u01/products/mf/mf/inf/ren-opsfl_wp4-64bit
=====
x Micro Focus License Administration Services
x Main Screen
x
x
x Product Details: Name
x Version
x
x =====
x x Enter new license key, then press Enter (or ESC to abort)
x x
x x Serial No 77111111111111111111
x x
x x License No 11111111111111111111
x x
x =====
x
x xfl=help F2=clear Tab/Tab=<> Enter=accept Escape=x
x =====
x License Key: Serial No
x License No
x
x
x =====
x xfl=help F2=key F3=install F4=uninstall F5=browse F6=more F7=refresh Escape=x
x =====

```

Press Enter to accept. Then screen appears as shown here.

```
root@pf1-agg1:/u01/products/mf/mflmf-svexp-51_wp4-64bit
Micro Focus License Administration Services
Main Screen

Product Details: Name Server Express 64-bit Model 1
 Version
License Details: Seat/Process Seat
 Units 0001
 Duration Unlimited
 Type DCM
Issuing Details: Issue Point 37824
 Issues P
 Foundry M
 Key Version 01
License Key: Serial No *****
 License No *****

F1=help F2=key F3=install F4=uninstall F5=browse F6=more F7=refresh Escape
```

Press F3 key to install the license.

```
root@pf1-agg1:/u01/products/mf/mflmf-svexp-51_wp4-64bit
Micro Focus License Administration Services
Main Screen

Product Details: Name Server Express 64-bit Model 1
 Version
License Details: Seat/Process Seat
 Units 0001
License added to database
Enter
Note that the license database cannot be moved, copied, or
restored without reloading the license keys.
Press any key to continue..

F1=help F2=key F3=install F4=uninstall F5=browse F6=more F7=refresh Escape
```

Open another session with the root user. Go to the directory /u01/products/mf/mflmf-svexp-51\_wp4-64bit. Run ./mflmman as shown on the following screen. The screen shows the license manager started.

```
[root@sp01-01 /usr/products/mf/mf-mvrxp-51_wp4-64bit]#
login msi root
root@10.104.111.67's password:
[root@sp01-01 /usr/products/mf/mf-mvrxp-51_wp4-64bit]
[root@sp01-01 mf-mvrxp-51_wp4-64bit]$ ls -litr
total 684
dr-xr-xr-x 17 root root 4096 Nov 20 2009 .log
dr-xr-xr-x 2 root root 4096 Nov 20 2009 bin
dr-xr-xr-x 1 root root 4096 Nov 20 2009 libexec
-r-xr-xr-x 1 root root 4697 Nov 20 2009 README.txt
-r-xr-xr-x 1 root root 12509 Nov 20 2009 README_mf.mvrxp.txt
-r-xr-xr-x 1 root root 480 Nov 20 2009 LMFCONFIGURATION
-r-xr-xr-x 1 root root 16440 Nov 20 2009 INSTALL.B
-r-xr-xr-x 1 root root 37970 Nov 20 2009 INSTALL.TXT
-r-xr-xr-x 1 root root 16437 Nov 20 2009 mf-man.gpt
-r-xr-xr-x 1 root root 54056 Nov 20 2009 mf_in_packages
-r-xr-xr-x 1 root root 264 Nov 20 2009 mf_install
-r-xr-xr-x 1 root root 48992 Nov 20 2009 mf_in_cmd
-r-xr-xr-x 1 root root 156 Nov 20 2009 mf_install
-r-xr-xr-x 1 root root 188116 Nov 20 2009 mf_in_sdbits
-r-xr-xr-x 1 root root 573 Nov 20 2009 mf_install
-r-xr-xr-x 1 root root 3182 Nov 20 2009 mfinstall.gpt
-r-xr-xr-x 1 root root 11620 Nov 20 2009 mf-man
-r-xr-xr-x 1 root root 11629 Nov 20 2009 mf_install_utf8
-r-xr-xr-x 1 root root 10490 Nov 20 2009 mf_install_enj
-r-xr-xr-x 1 root root 10490 Nov 20 2009 mf_install_esj
-r-xr-xr-x 1 root root 14182 Nov 20 2009 mfsetup.py
-r-xr-xr-x 1 root root 2440 Nov 20 2009 mfupdateerror
-r-xr-xr-x 1 root root 249 Nov 20 2009 devman
dr-xr-xr-x 2 root root 4096 Nov 20 2009 lib
-r-xr-xr-x 1 root root 550 Sep 14 12:42 PROFILE
-r-xr-xr-x 1 root root 0 Sep 14 12:42 MF-LMF.log
-rwxrwxrwx 1 root root 0 Sep 14 12:42 mf_install.sdb
-rwxrwxrwx 1 root root 0 Sep 14 12:42 mf_installB
-rwxrwxrwx 1 root root 4 Sep 14 12:42 LMFVIEWE
-rwxrwxrwx 1 root root 230 Sep 14 12:42 mf_mvrxp
-r-xr-xr-x 1 root root 55 Sep 14 12:52 mf_bin_directory
-rwxrwxrwx 1 root root 3072 Sep 14 12:52 mf_install.sdb
-rwxrwxrwx 1 root root 280 Sep 14 12:52 mf_installB
[root@sp01-01 mf-mvrxp-51_wp4-64bit]$./mf_install
MF-LMF Wed Sep 14 12:53:32 2011: LMF Starting
[root@sp01-01 mf-mvrxp-51_wp4-64bit]$
```

Return to the previous screen and press F3 to refresh the screen. The following screen appears.

```

P root@kali:~# cd /usr/bin; ./microfocus_license_admin_v91_xpl_64bit
=====
Micro Focus License Administration Services
Support Screen

If you have amended the details on the license database and you
want to use these new details immediately, you must request
license manager to refresh its working copy of the database.
Press F3-refresh to do this.

=====
X X
X License manager is now using X you contact
X Technical Supps the latest license database ater into the
X system to help nto the field
X below, and then Press any key to continue.. X
X=====
X
X
=====
?F1=help ?F2=clear ?F3=refresh ?F4=suspend ?F5=admin ?F6=more Tab/BTab=> Escape =

```

Press the ESC key to exit

```

root@opt: app1/hd1/productinfo$./infocv 51_wpd 44th
=====
Micro Focus License Administration Services
Support Screen

If you have amended the details on the license database and you
want to use these new details immediately, you must request
the license manager to refresh its working copy of the database.
Press F3=refresh to do this.

=====
x Do you really want to quit? x

If you experience sr and you contact
Technical Suppoe Y/N sfo enter into the
system to help nfo into the field
below, and then=====

=====
F1=help F2=clear F3=refresh F4=suspend F5=main F6=more Tab:Tab=> Escape

```

---

Select Y to leave the COBOL installation window.

Update the profile with the following variables

- Add the value **/\$COBDIR/bin** to the **PATH** variable.
- Add the value **/\$COBDIR/lib** to the **LD\_LIBRARY\_PATH** variable.

Compile the COBOL programs using **./pscbl.mak**

- Go to **\$PS\_HOME/setup**.
- Run the command **./pscbl.mak**. This command will compile all the COBOL programs and display a success message.

Linking the COBOL programs.

- Go to **\$PS\_HOME/setup**.
- Run the command **./psrun.mak**. This command will link all the COBOL programs to the respective compiled files.



Log in to the Oracle PIA and run the sample COBOL processes. COBOL SQL processes should run successfully without any errors. The following screen shows running sample COBOL SQL processes.

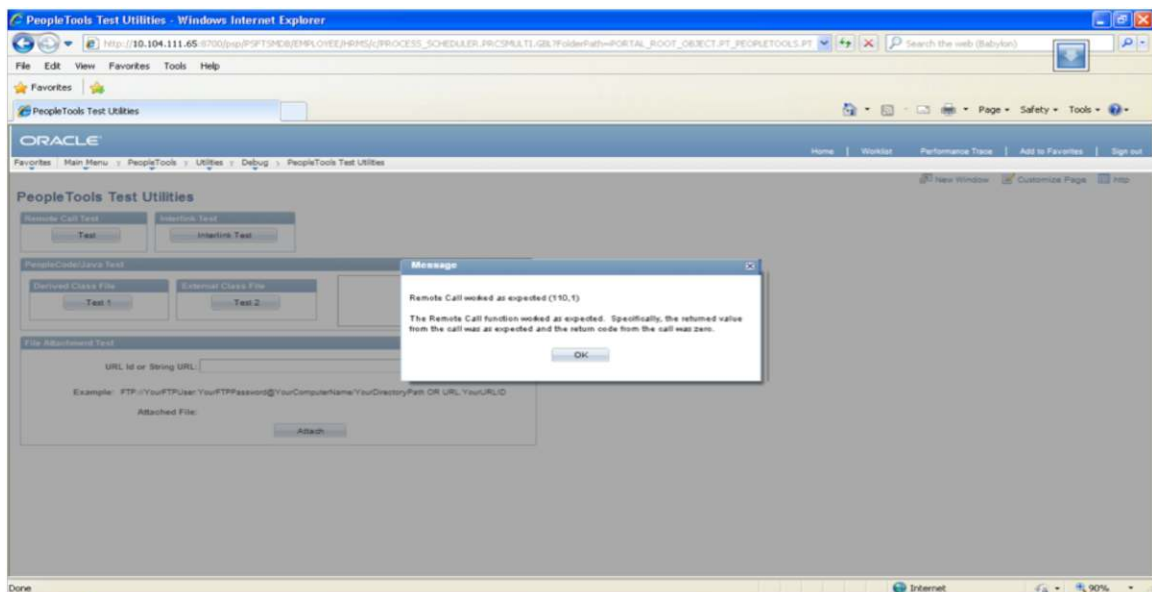
The screenshot shows the 'System Process Requests' page in a web browser. It features a 'View Process Request For' section with filters for User ID, Type, Last, Days, and a 'Refresh' button. Below this is a 'Processes List' table with columns: Select, Instance, Sys, Process Type, Process Name, User, Run Date/Time, Run Status, Distribution Status, and Details. The table lists various processes, including COBOL SQL, SQR Report, and Application Engine, all with a 'Success' status.

| Select                   | Instance | Sys | Process Type       | Process Name | User | Run Date/Time             | Run Status | Distribution Status | Details                 |
|--------------------------|----------|-----|--------------------|--------------|------|---------------------------|------------|---------------------|-------------------------|
| <input type="checkbox"/> | 4031     |     | COBOL SQL          | PTPDTTST     | PS   | 10/14/2011 10:53:53AM IST | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4030     |     | COBOL SQL          | PTPCBTST     | PS   | 10/14/2011 10:53:53AM IST | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4029     |     | SQR Report         | DDP001       | PS   | 10/14/2011 1:14:34AM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4028     |     | SQR Report         | DDP002       | PS   | 10/14/2011 1:12:19AM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4027     |     | SQR Report         | DDP005       | PS   | 10/14/2011 1:05:14AM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4026     |     | SQR Report         | DDP006       | PS   | 10/14/2011 1:00:39AM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4025     |     | Application Engine | PSXP_ORCLN   | PS   | 10/14/2011 1:00:17AM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4024     |     | Application Engine | PSXPARCHATT  | PS   | 10/14/2011 1:00:17AM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4023     |     | Application Engine | PRCSYSPURGE  | PS   | 10/14/2011 1:00:05AM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4022     |     | SQR Report         | DDP001       | PS   | 10/13/2011 10:48:41PM IST | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4021     |     | SQR Report         | PAYUNSH1     | PS   | 10/13/2011 9:10:37PM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4018     |     | SQR Report         | PAYUNSH1     | PS   | 10/13/2011 9:07:40PM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4003     |     | SQR Report         | DDP001       | PS   | 10/13/2011 8:19:43PM IST  | Success    | Posted              | <a href="#">Details</a> |
| <input type="checkbox"/> | 4002     |     | SQR Report         | PAYUNSH1     | PS   | 10/13/2011 7:50:24PM IST  | Success    | Posted              | <a href="#">Details</a> |

### Test the remote call utility from Oracle PIA:

Choose Go to the PeopleTools > Utilities > Debug > PeopleTools Test Utilities.

Click Test.



---

## Appendix D: Troubleshooting Common Installation Problems

### Troubleshooting Oracle WebLogic Problems

If you have trouble with the installation of Oracle WebLogic, review these tips:

- You may need up to 800 MB of space to install Oracle WebLogic. If there is not enough space, the installer displays an error message with information about the space limitation. You will need to exit the installation process and create some space under your Home directory before restarting installation.
- The Oracle WebLogic installer uses the default system temporary space. It will stop and display an error message if the temporary space is not sufficient. Clean up the default system temporary space and try again. If you do not have the privileges needed to clean up that directory and need to proceed, as a workaround you can set aside a directory under your Home directory and use it as the temporary space. You can do this by setting `-Djava.io.tmpdir` in the command for launching the installer. For example, the following command will use the temp directory under your Home directory to launch the installer in console mode:

```
${JAVA_HOME}/bin/java -jar ./wls1032_generic.jar -mode=console -Djava.io.tmpdir=
~/temp -log=~/logs/Wls1032Install.log
```

- If the installation fails, and if the directory that you specify for the Oracle WebLogic 10.3.2 installation is one in which other BEA products have been installed (BEA\_HOME in previous releases; for example, c:\bea folder in Microsoft Windows), the registry.xml file in your existing BEA\_HOME directory may be corrupted. Pick a different location to for the Oracle WebLogic 10.3.2 installation directory and try the installation again.
- If you are installing on the Microsoft Windows operating system using GUI mode and the installation fails without any message, run the installer from the command prompt using console mode. It will show you more detailed error messages indicating the problem area.

The command to run on Microsoft Windows in console mode is

```
%JAVA_HOME%\bin\java -jar wls1032_generic.jar -mode=console -log=logs
\Wls1032Install.log
```

- If you encounter the following error message while running in console mode on a Microsoft Windows operating system, it means that the environment variable `_JAVA_OPTIONS` has been set in your system. This setting causes the Java process initiated by the Oracle WebLogic installer to fail.

ERROR: JVMPI, an experimental interface, is no longer supported.

Please use the supported interface: the JVM Tool Interface (JVM TI).

To resolve the problem, remove the environment variable `_JAVA_OPTIONS` from your system and rerun the installation.

- If you encounter the following error message while installing on a Linux operating system, there is a problem with access to the temporary directory:

\*sys-package-mgr\*: cannot write cache file

This message appears because the Oracle WebLogic installer creates a temporary directory (for example, on Linux it is `/var/tmp/wlstTemp`) that is shared by all users and it is unable to differentiate between users.

As a result, access to the directory is blocked when the user accessing the directory is not the one who originally created the directory. The workaround for this problem is to remove the installation and install

---

Oracle WebLogic again after manually adjusting the temporary directory permissions. A user with superuser privileges can use the following command to adjust the permissions:

```
chmod -R 777 /var/tmp/wlstTemp
```

For more information, search the Oracle's BEA documentation for Oracle WebLogic.

[http://docs.oracle.com/cd/E17904\\_01/wls.htm](http://docs.oracle.com/cd/E17904_01/wls.htm)

- If you encounter the following error message while running Oracle PeopleSoft Pure Internet Architecture installed on a Microsoft Windows or Linux operating system and you are using Oracle JRockit R28 or later, you can ignore the error message and continue.

[WARN] -XXnoJITInline has no effect. Please update your command line.

If you prefer to avoid seeing the error message:

- Make a backup copy of the file `<PS_HOME>/websevr/<domain_name>/bin/setEnv.cmd` (sh).
- Open `setEnv.cmd` (sh) in a text editor and remove the JVM option `-XXnoJITInline`.
- Save the file.

## Troubleshooting Application Server Problems

For troubleshooting help, you can access a log file through the Oracle PeopleSoft Domain Administration menu.

Possible errors you may encounter are listed here:

- Use PSADMIN PeopleSoft Domain Administration menu option 6 for the Edit configuration and log files menu to check for errors in `<PS_CFG_HOME>/appserv/<domain>/LOGS/APPSRV_mmdd.LOG` and `<PS_CFG_HOME>/appserv/<domain>/LOGS/TUXLOG.mmddyy`.
- If an Oracle PeopleSoft server such as PSAPPSRV fails, examine your configuration parameters. The failure of the PSAPPSRV process is often signaled by the message "Assume failed," which means that the process has failed to start. Check the SIGNON section for a misspelled or invalid database name, an invalid or unauthorized OprId setting, or a missing or invalid ConnectId or ServerName setting. Also make sure that the database connectivity is set correctly.
- If a WSL (or JSL) fails to start, try specifying another port number (the port may be in use already by another application server domain process).
- If you are unable to start the bulletin board liaison (BBL) process, check that Oracle Tuxedo is installed fully and that the directory really exists.
- If the installation includes more than one application server domain on a single machine, before booting the second domain, adjust the REN server configuration in one of these ways to avoid conflict:
  - Use PSADMIN to disable event notification (option 8 on the Quick Configure menu) for the second and subsequent application server domains.
  - Change `default_http_port` to a value other than 7180.

Also check that you do not have older Oracle Tuxedo releases (such as Oracle Tuxedo 6.4) prepended in your PATH or runtime library (LIBPATH, SHLIB\_PATH or LD\_LIBRARY\_PATH, depending on your UNIX platform).

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## Troubleshooting Database Installation Problems

If your script has stopped running midway through (this can happen for a number of reasons), you need to edit the script and start again.

To edit and restart the Data Mover Script (DMS):

- Identify the record that was being imported (that is, determine **IMPORT** command was running) when the script stopped.

**Note:** When building a DMO database or a multilingual database, the **SET START** statement can be difficult to add because DMS used to load the database includes more than one **IMPORT** statement. You need to view the log files to determine the **IMPORT** section of the script on which DMS failed. If the failure occurred during the first import operation, add the **SET START** statement before the first **IMPORT \*;** statement. If the failure occurred during a subsequent import operation, comment out all preceding **IMPORT \*;** statements and add the **SET START** statement before the **IMPORT\*;** statement of the section in which the failure occurred. This step is very important. If you see any "unique index constraint" error messages in the Create Indexes step your **IMPORT** script failed during a subsequent import operation, but the **SET START** statement was added to the first **IMPORT** command. In this situation, you can run the DMS in its originally generated form, with only one modification: In the first **IMPORT** section, change the statement **IMPORT \*;** to **REPLACE\_DATA \*;**. This change will delete all the data in the tables and reimport it. This process will take some time to run, and you will need to separately create each of the indexes that failed.

Add the following line before the offending **IMPORT** command (the one being run when the failure occurred):

Set start <RECORD NAME>;

where <RECORD NAME> is the name of the record that failed. Make sure to review the DMS log file to see where the script failed and locate the last record that was imported successfully. The **SET START** command will begin the DMS import at the record name specified.

**Note:** You should change the name of the log file in the script before each attempt at running it. This change helps ensure that you have a separate log file for each attempt if you run the import operation more than once.

### Example

The script stops and a message similar to this one appears in the table:

Importing PSPNLFIELD

Rows inserted into PSPNLFIELD

3000

First drop the table in which rows have been partially inserted (for example, a record) by using the **DROP TABLE** command. Then restart the DMS at the record that failed using the **SET START** command and continue the DMS import operation. With Oracle PeopleSoft PeopleTools 8.4.0, this task can be accomplished in a single step.

Add the following lines before the offending **IMPORT** command (the one being run when the failure occurred):

**SET START** <RECORD NAME>;

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```
DROP TABLE <RECORD NAME>;
```

where **<RECORD NAME>** is the name of the record that failed. Make sure to review the DMS log file to see where the script failed and locate the last record that was imported successfully. The **SET START** command will begin the DMS import operation at the record name specified, as shown in the following example.

#### *Before*

```
REM - PeopleTools System Database - US English
/
SET LOG ptengs.log;
SET INPUT ptengs.db;
SET COMMIT 30000;
SET NO VIEW;
SET NO SPACE;
SET NO TRACE;
SET UNICODE OFF;
IMPORT *;
```

#### *After*

```
REM - PeopleTools System Database - US English
/
SET LOG ptengs.log;
SET INPUT ptengs.db;
SET COMMIT 30000;
SET NO VIEW;
SET NO SPACE;
SET NO TRACE;
SET UNICODE OFF;
SET START PSPNLFIELD;
DROP TABLE PSPNLFIELD;
IMPORT *;
```

For the DROP statement, for records with a record name without a leading PS, add PS\_ to the beginning of the record name; otherwise, the table will not be found.

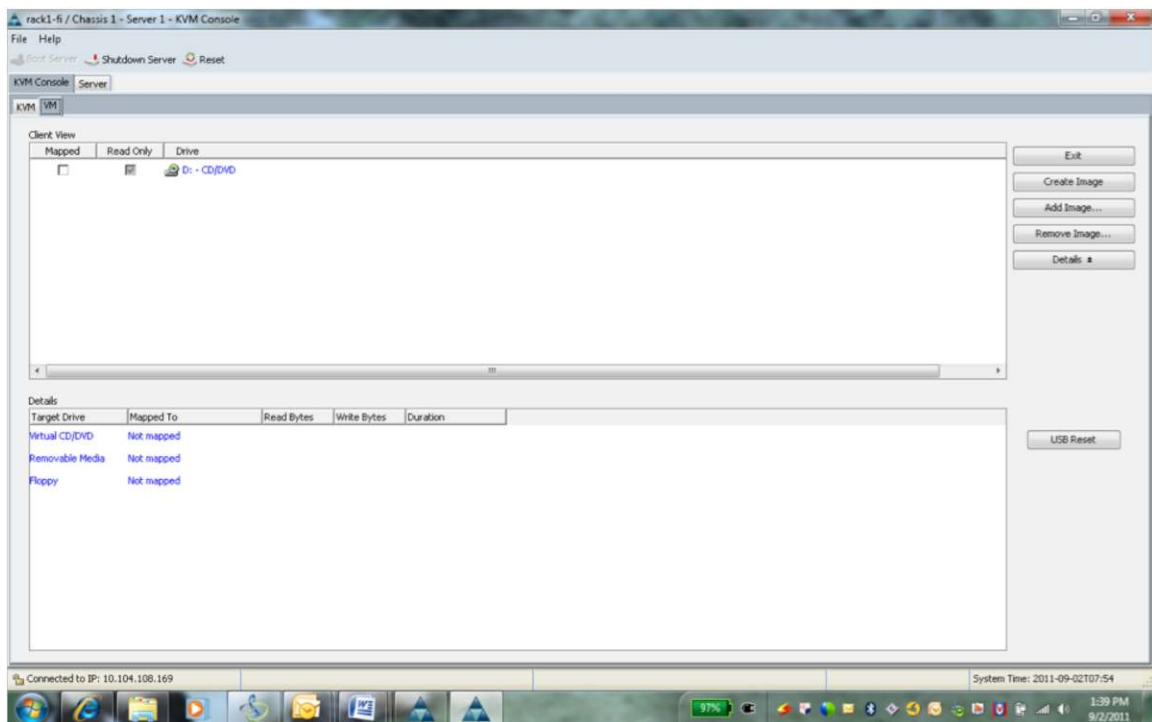
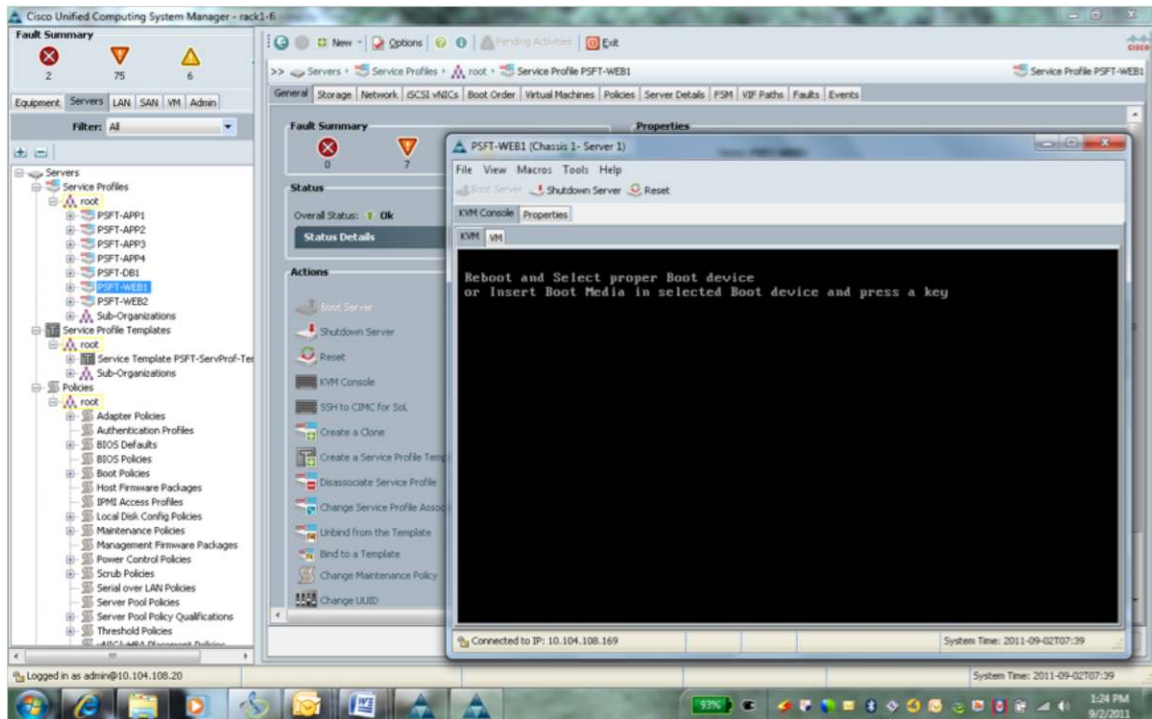
#### **Example**

PS\_<RECNAME>

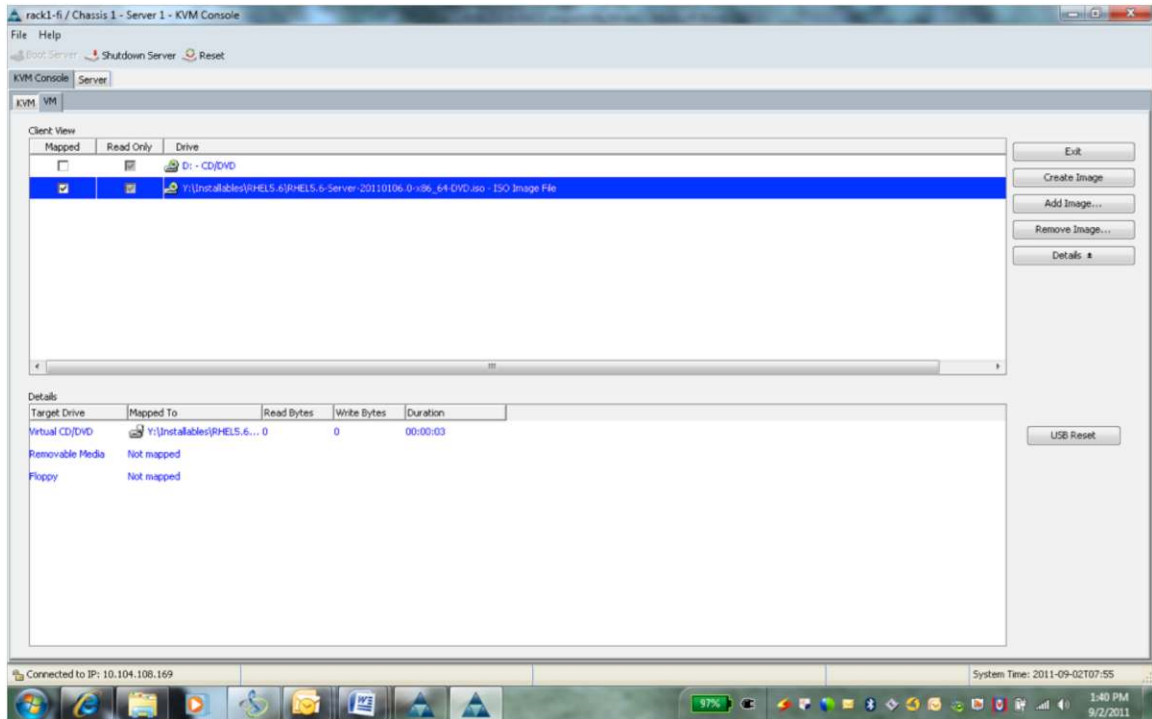
Restart the script (choose File > Run Script).

## Appendix E: Installing Red Hat Enterprise Linux

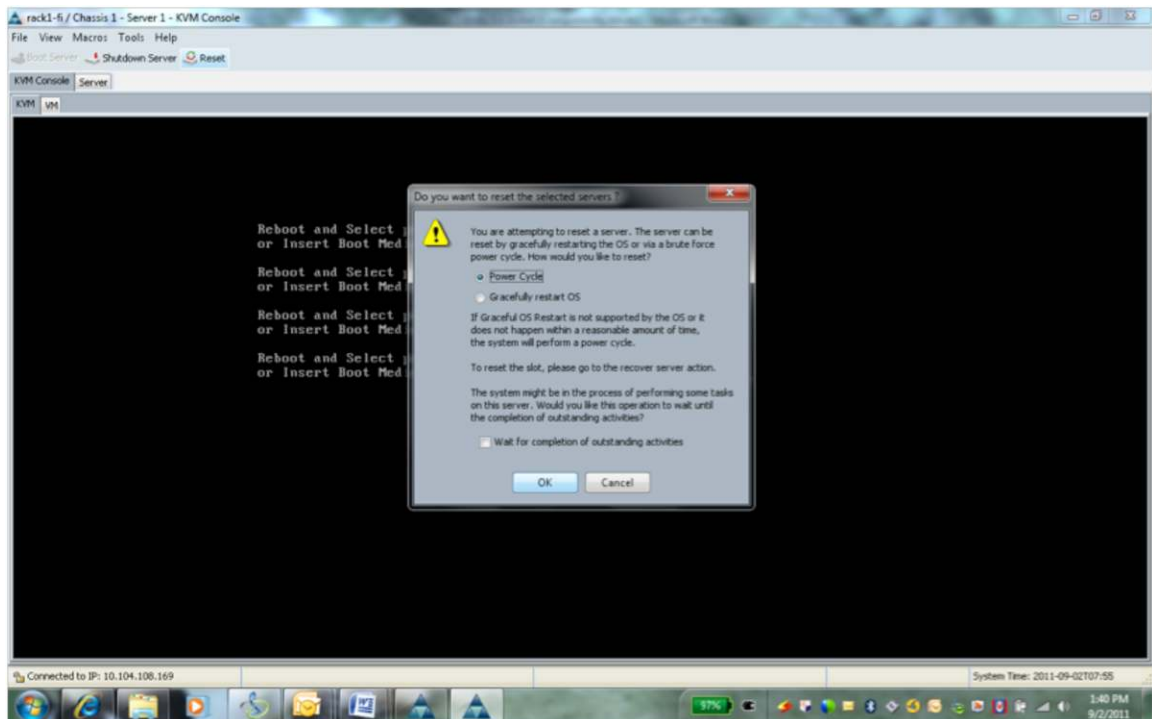
Logon to Cisco UCS Manager (Capitola).



Add the image and map it.

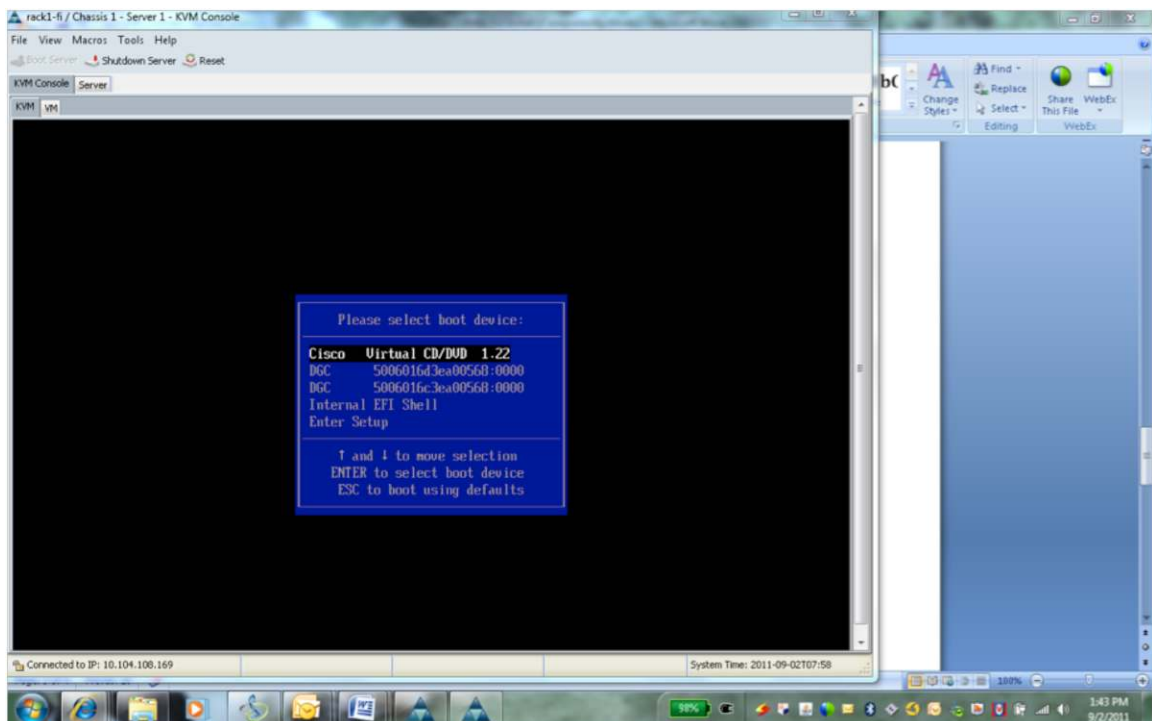
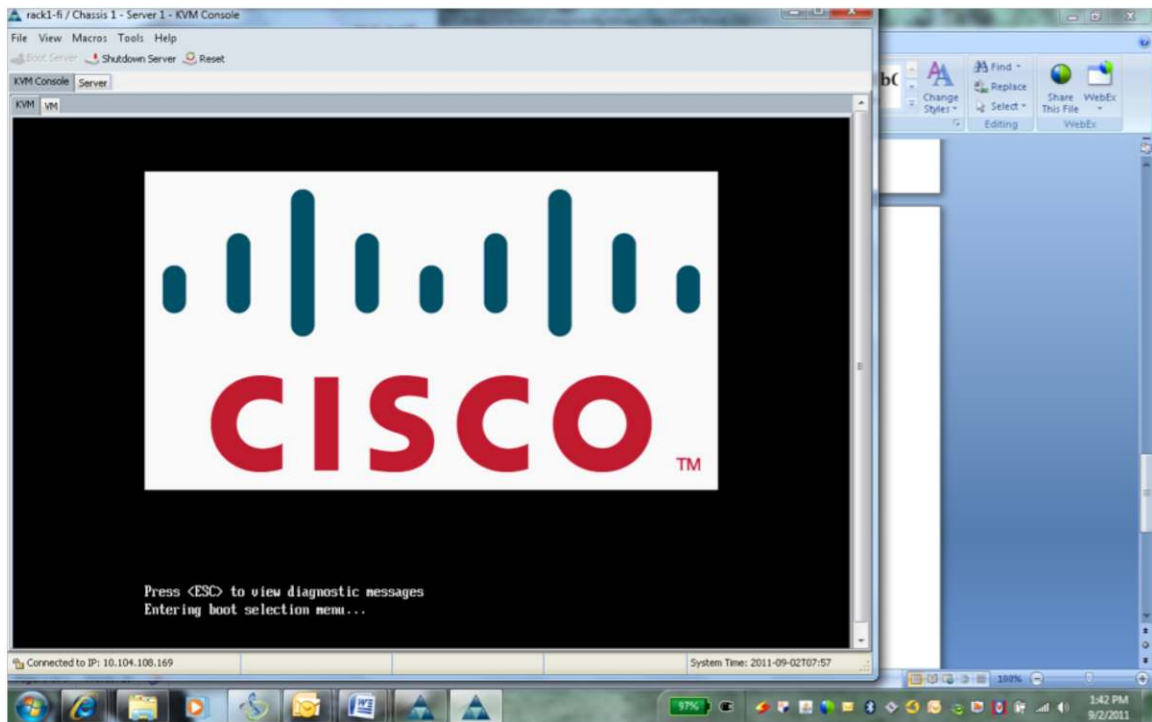


Click Reset to restart the server.



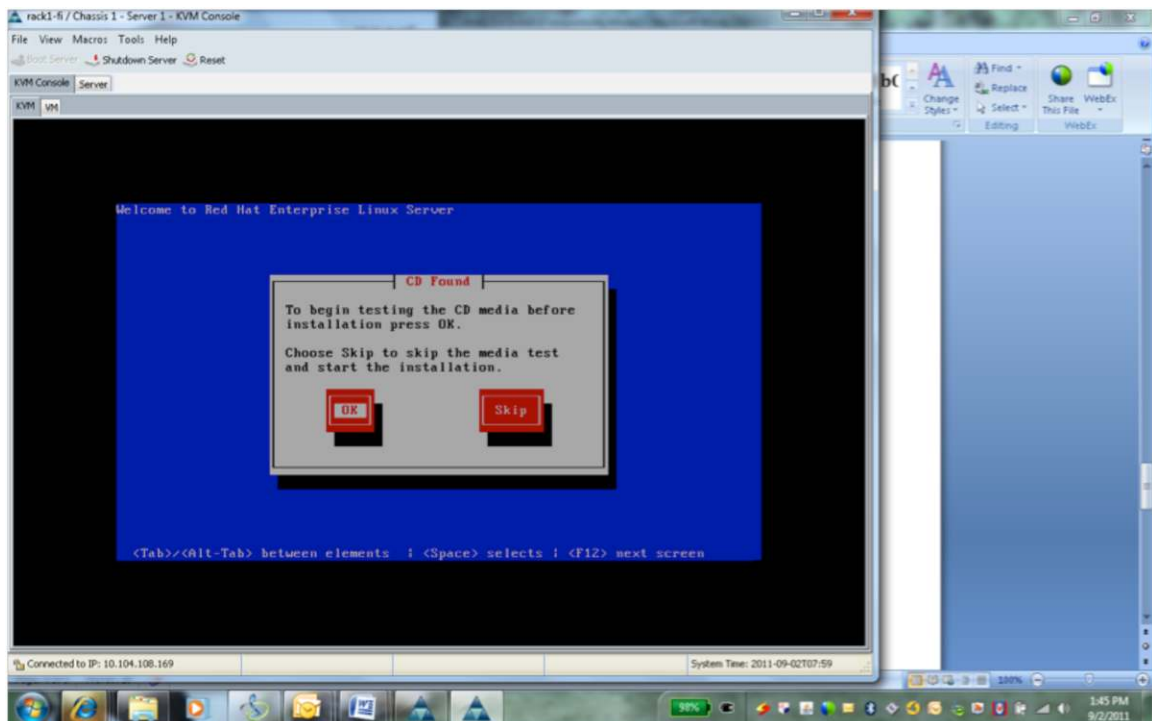
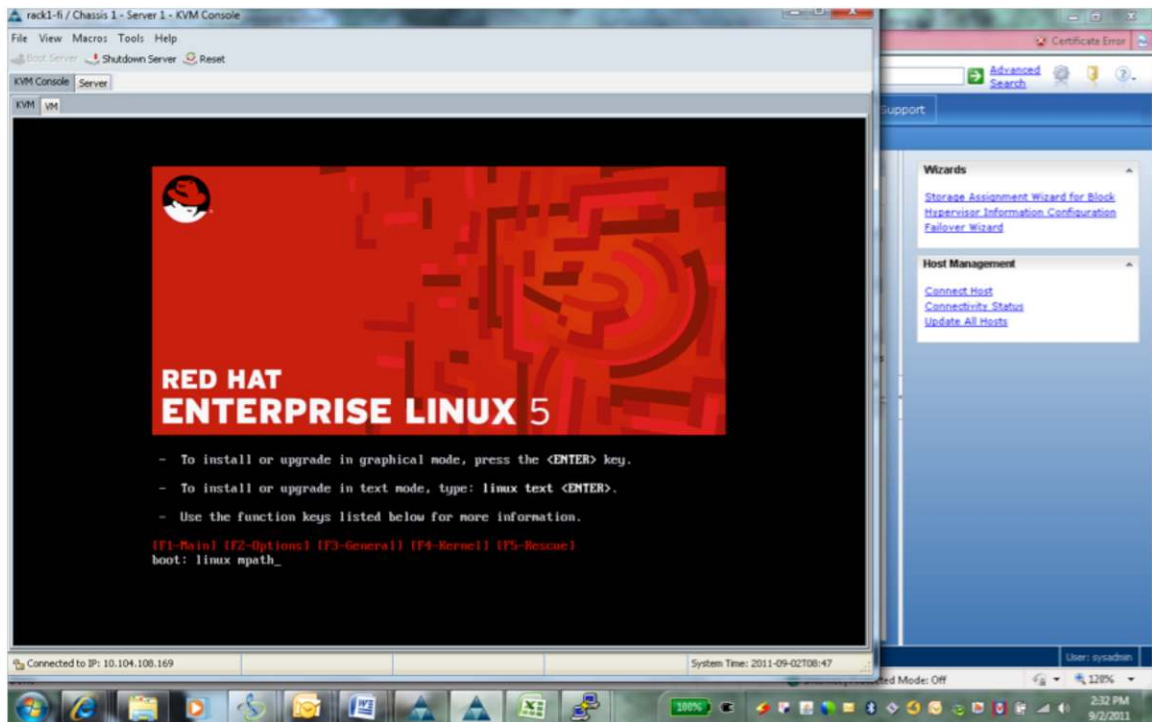


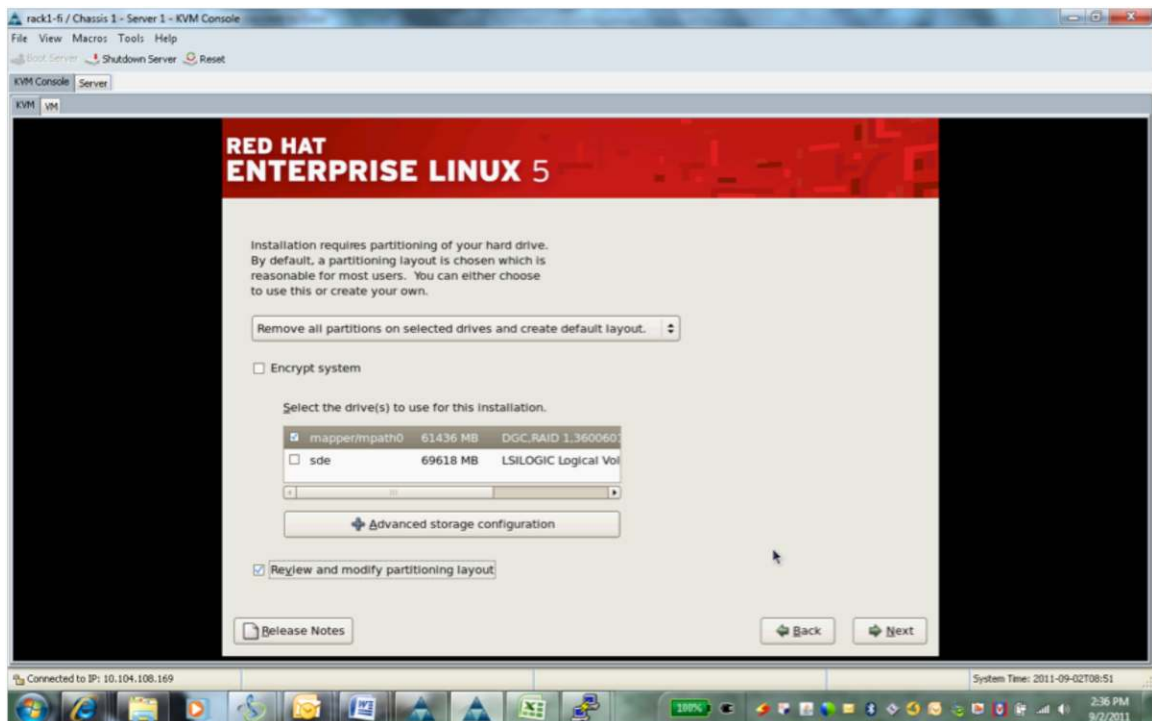
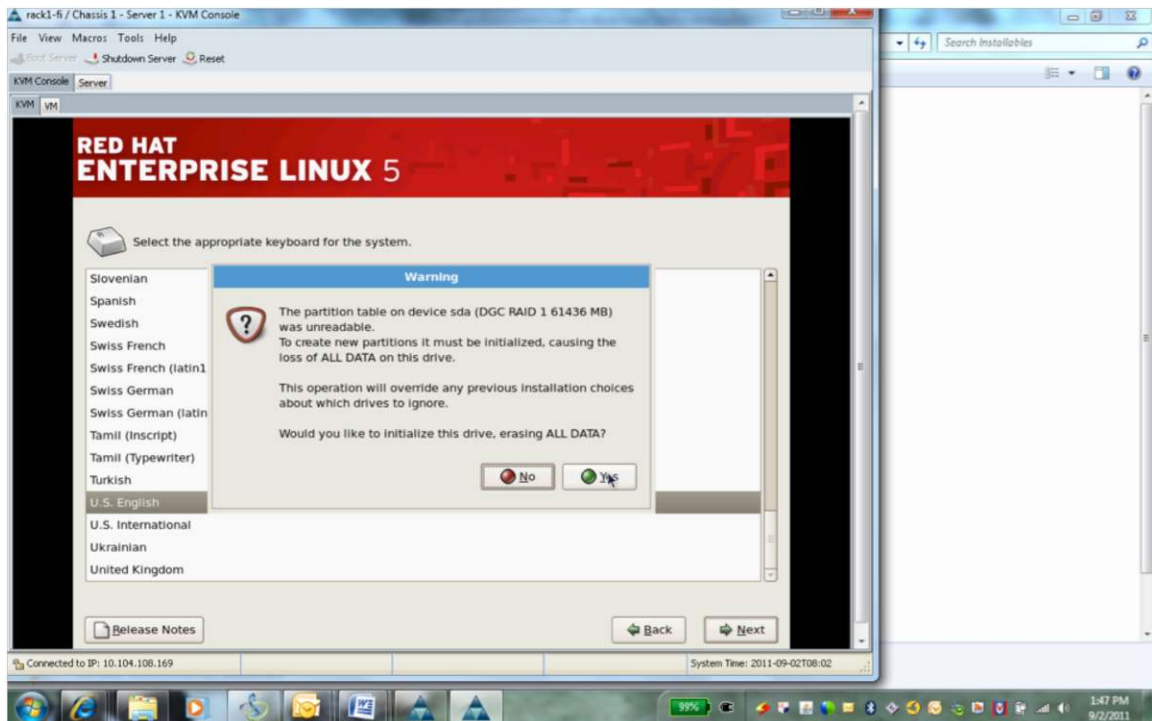
Press F6 to enter the boot media.

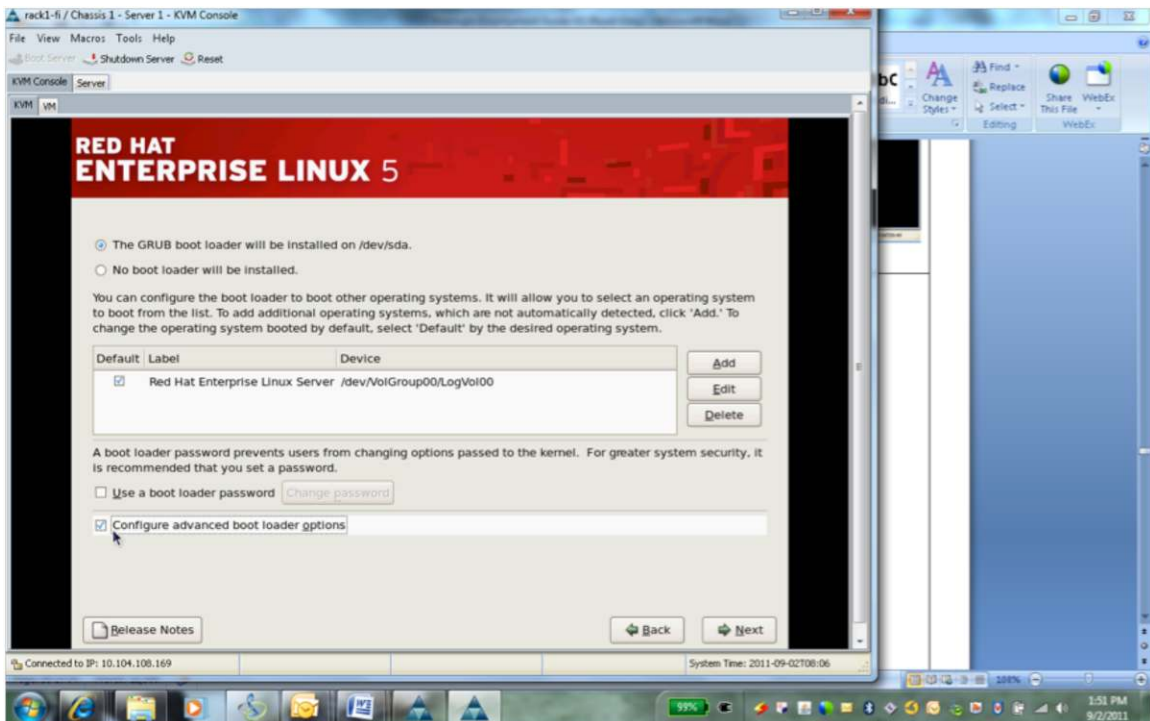
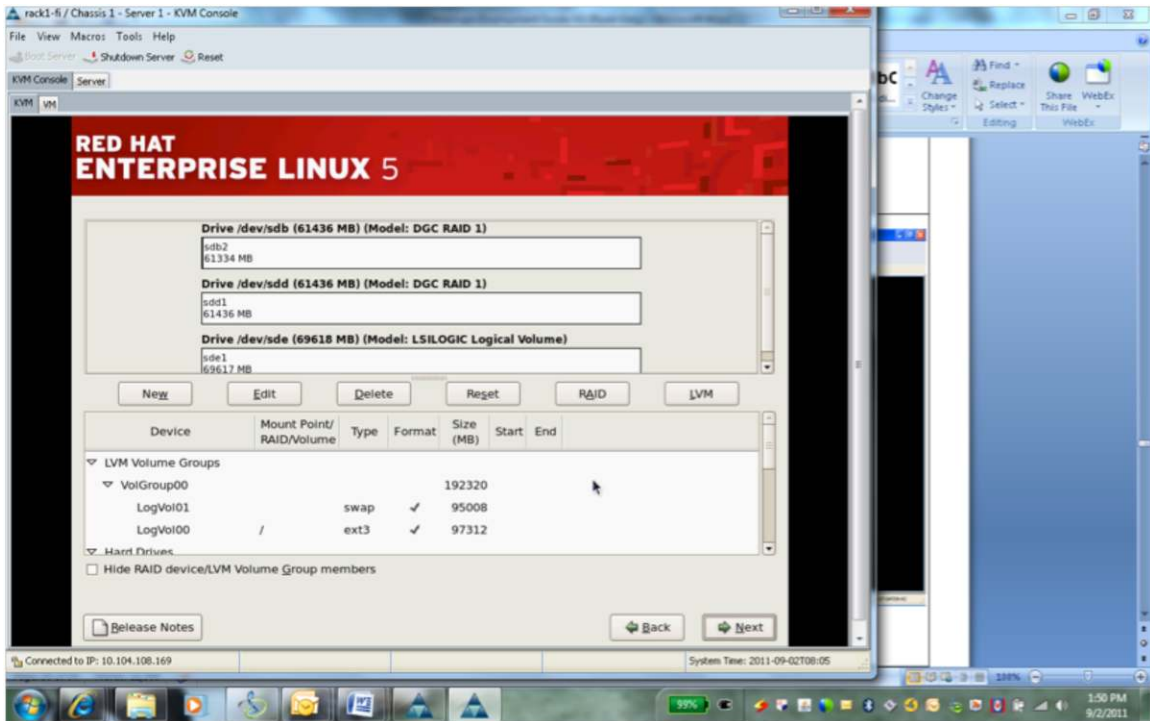


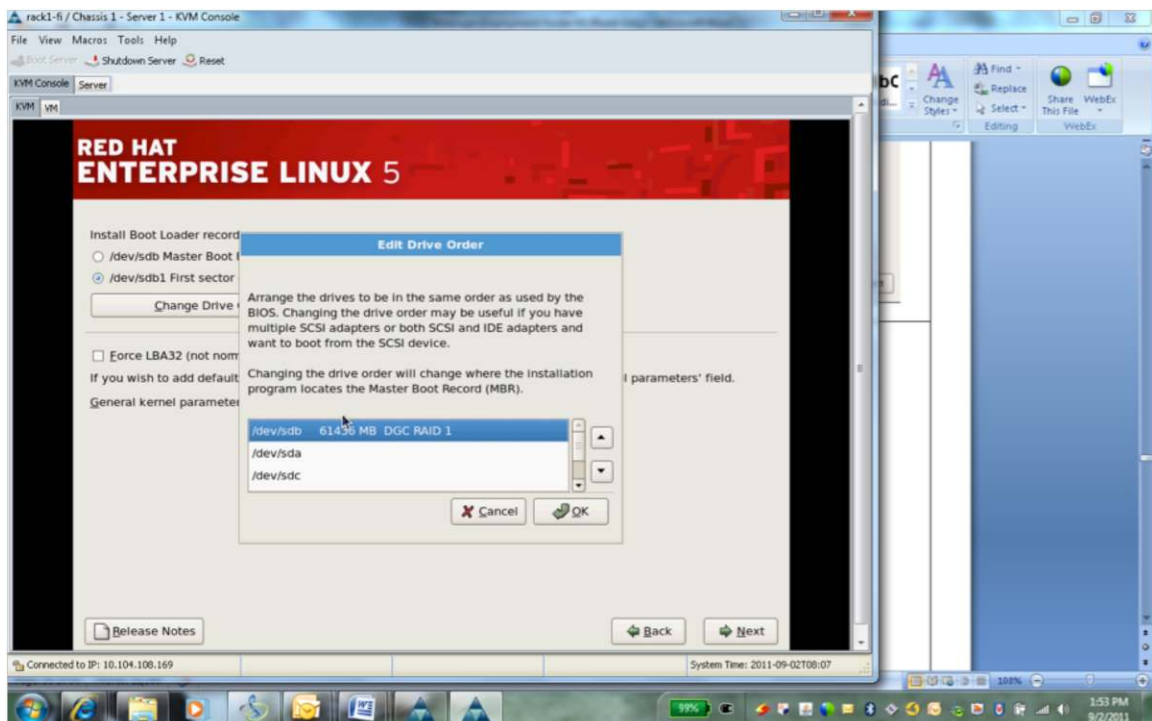
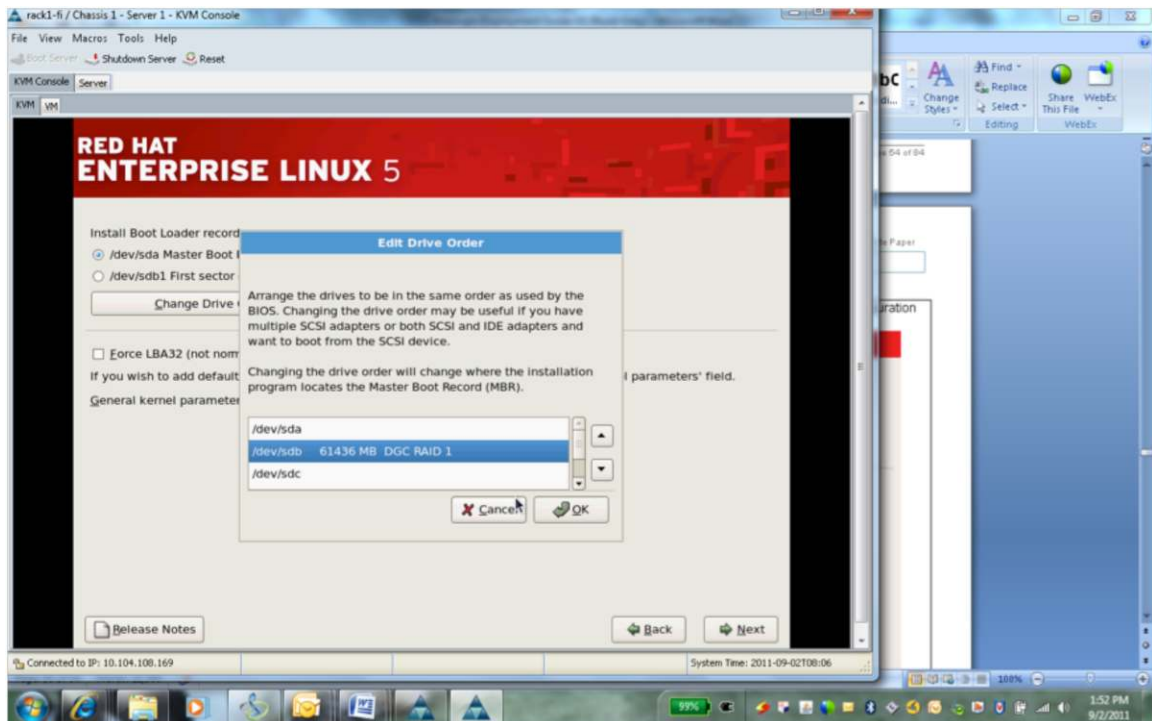


Remember to type linux mpath



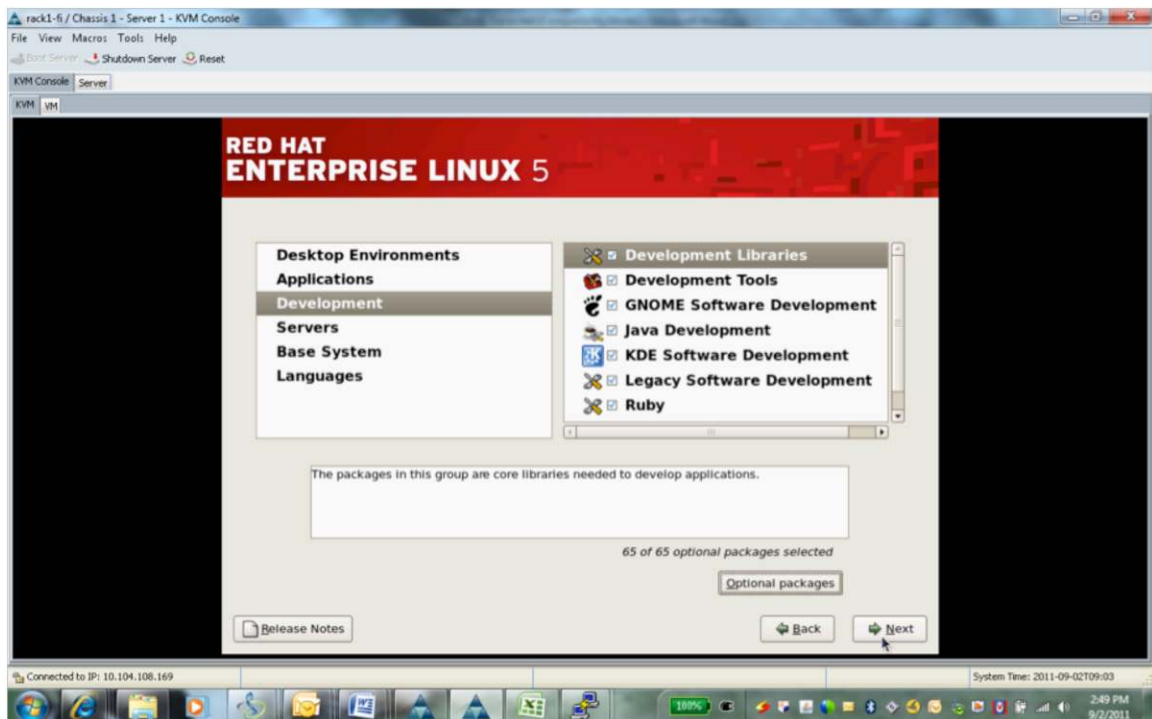
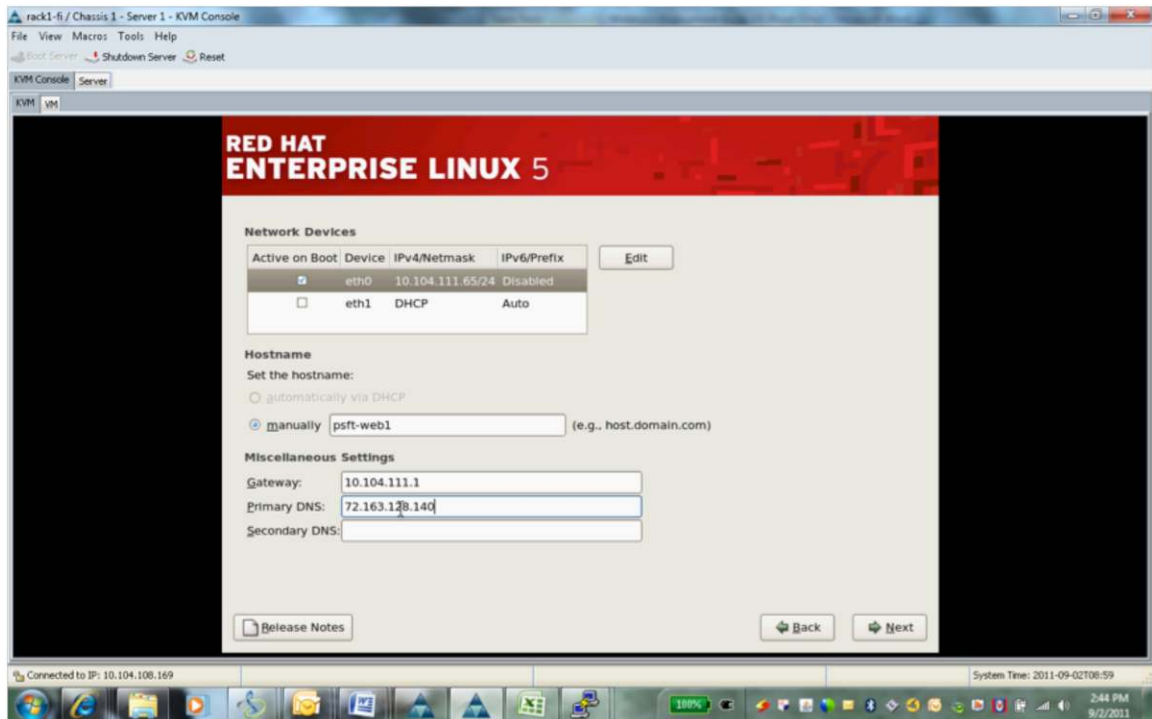




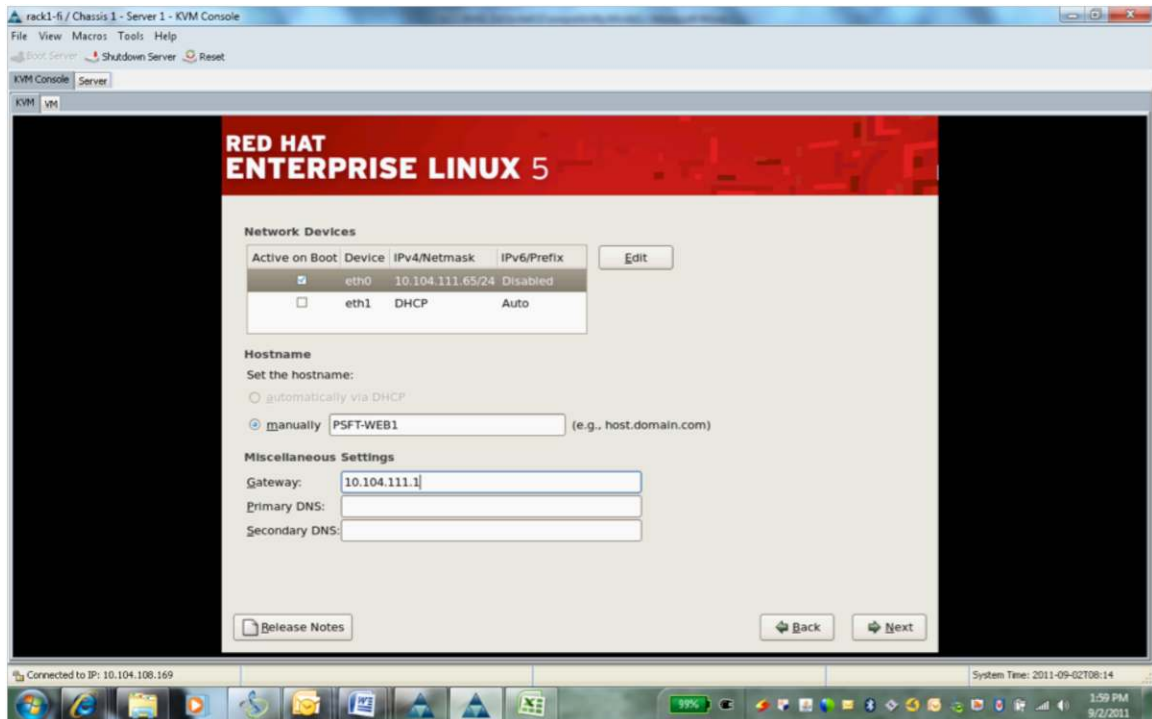


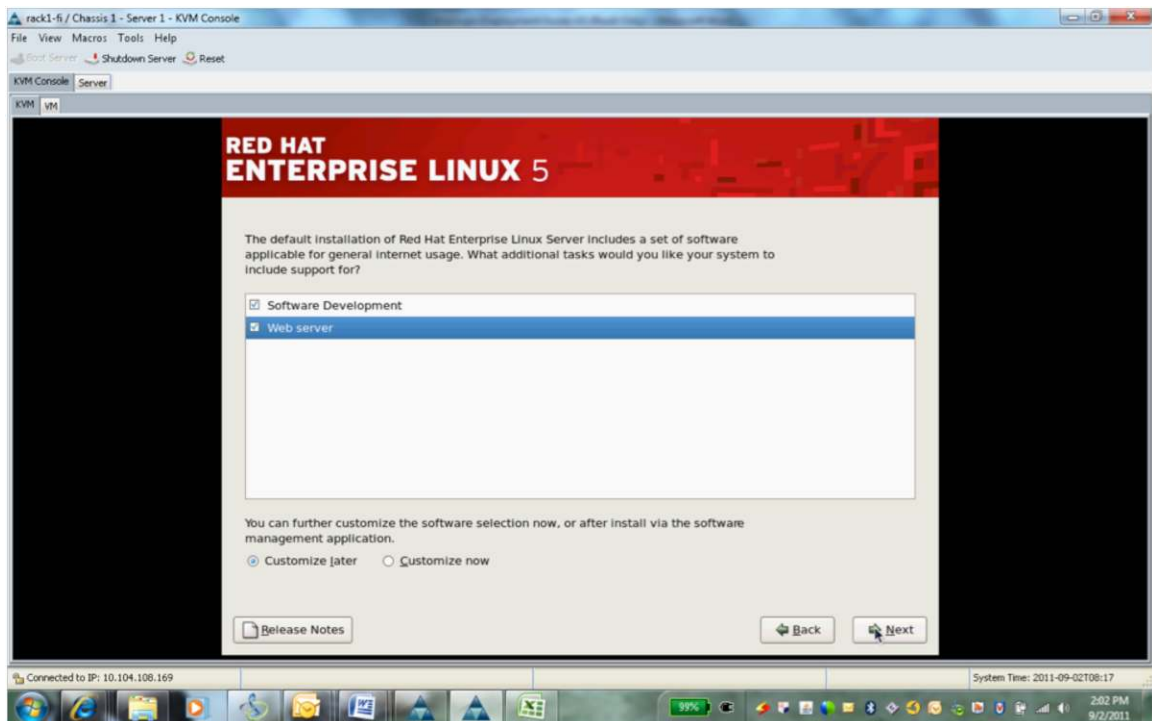
Gateway : 10.1xx.1xx.1

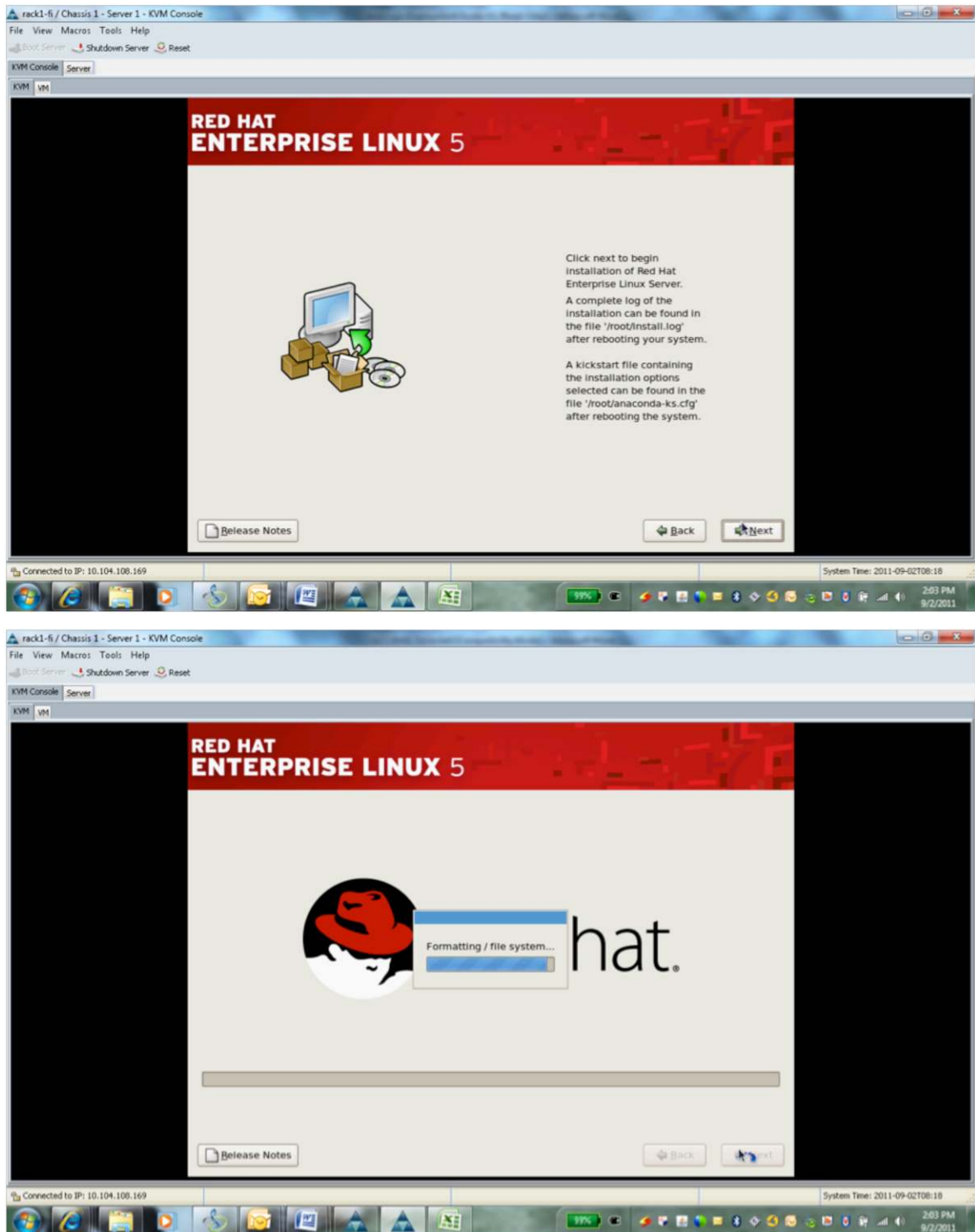
Primary Domain Name System (DNS): 7x.1xx.1xx.1xx



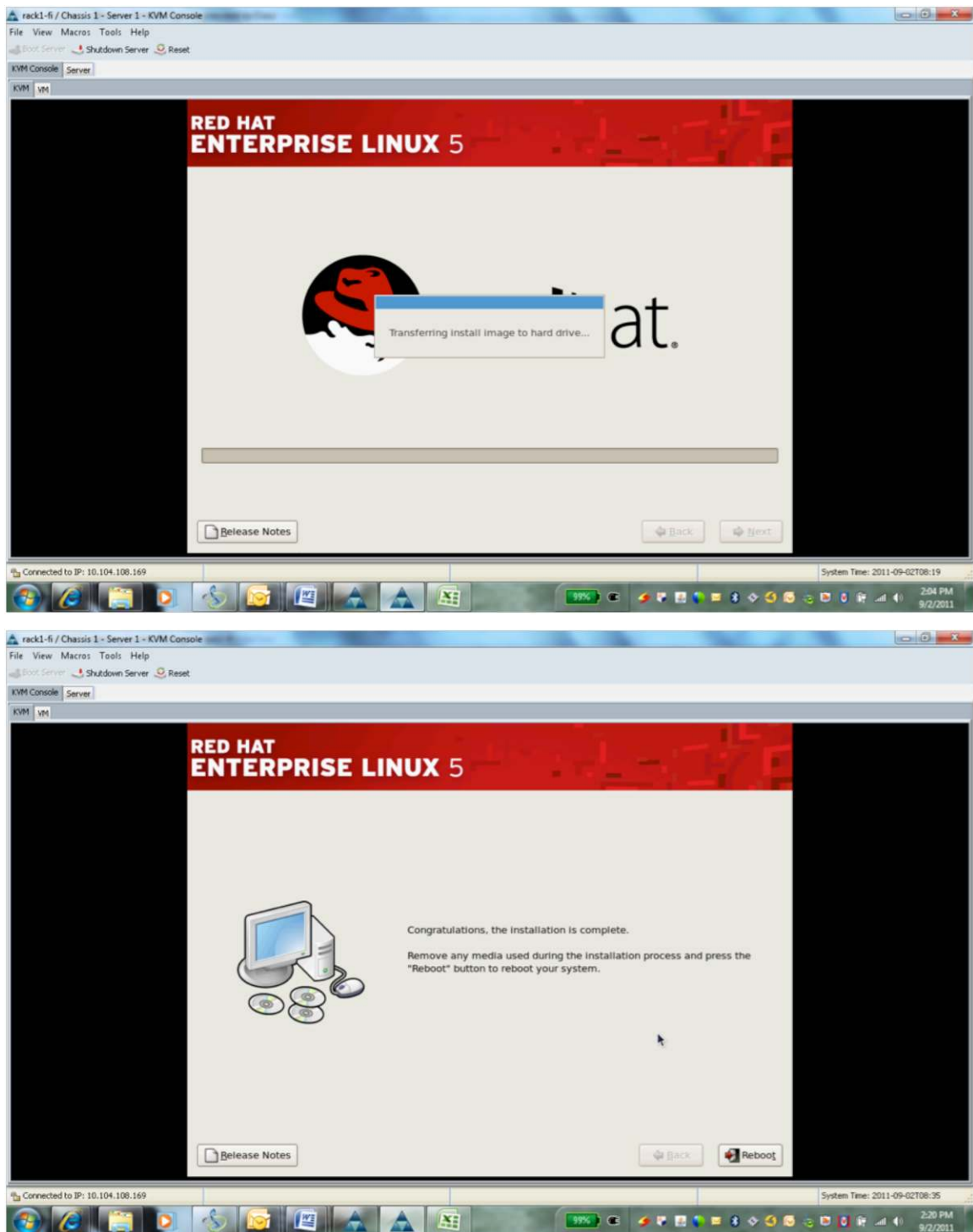


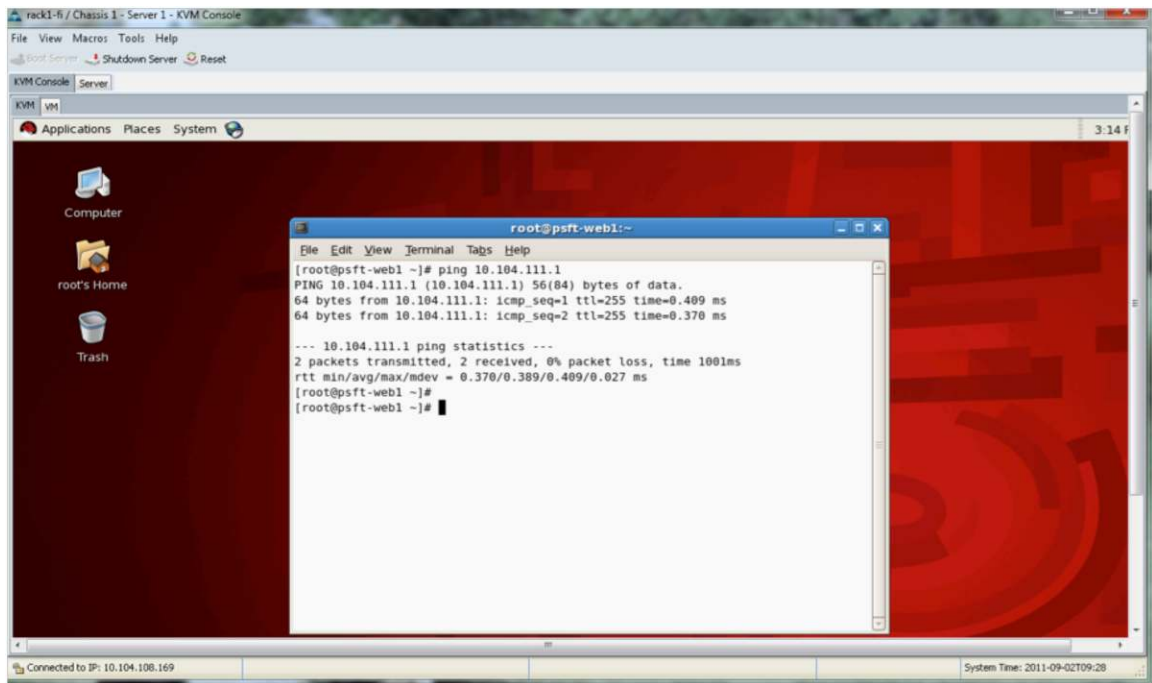












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## Appendix F: Reference Documents

- Oracle PeopleSoft PeopleTools 8.51 Certification Matrix on Linux x86-64 Red Hat Enterprise Linux 5  
<https://support.oracle.com/CSP/ui/flash.html>
- Cisco Hardware and Software Interoperability Matrix Release 1.4.3  
[http://www.cisco.com/en/US/products/ps10477/prod\\_technical\\_reference\\_list.html](http://www.cisco.com/en/US/products/ps10477/prod_technical_reference_list.html)
- Oracle PeopleSoft PeopleTools 8.51 Release Notes  
[https://support.oracle.com/CSP/ui/flash.html -  
tab=KBHome\(page=KBHome&id=\(\)\),\(page=KBNavigator&id=\(viewingMode=1143&bmDocTitle=PeopleTools 8.51 Release  
Notes&bmDocDsrc=KB&bmDocType=REFERENCE&bmDocID=1203023.1&from=BOOKMARK\)\)](https://support.oracle.com/CSP/ui/flash.html-tab=KBHome(page=KBHome&id=()),(page=KBNavigator&id=(viewingMode=1143&bmDocTitle=PeopleTools 8.51 Release Notes&bmDocDsrc=KB&bmDocType=REFERENCE&bmDocID=1203023.1&from=BOOKMARK)))
- Hardware and Software Guide for Oracle PeopleTools 8.51  
[http://docs.oracle.com/cd/E18373\\_01/psft/acrobat/PeopleTools\\_8.51\\_HardwareSoftwareGuide.pdf](http://docs.oracle.com/cd/E18373_01/psft/acrobat/PeopleTools_8.51_HardwareSoftwareGuide.pdf)
- 733205.1: Migration of Oracle Database Instances Across OS Platforms  
[https://support.oracle.com/CSP/ui/flash.html -  
tab=KBHome\(page=KBHome&id=\(\)\),\(page=KBNavigator&id=\(bmDocDsrc=KB&bmDocID=733205.1&from=  
BOOKMARK&viewingMode=1143&bmDocTitle=Migration of an Oracle Database Across OS  
Platforms&bmDocType=HOWTO\)\)](https://support.oracle.com/CSP/ui/flash.html-tab=KBHome(page=KBHome&id=()),(page=KBNavigator&id=(bmDocDsrc=KB&bmDocID=733205.1&from=BOOKMARK&viewingMode=1143&bmDocTitle=Migration of an Oracle Database Across OS Platforms&bmDocType=HOWTO)))
- 243304.1-10g: Transportable Tablespaces Across Different Platforms  
[https://support.oracle.com/CSP/ui/flash.html -  
tab=KBHome\(page=KBHome&id=\(\)\),\(page=KBNavigator&id=\(bmDocDsrc=KB&bmDocID=243304.1&from=  
BOOKMARK&viewingMode=1143&bmDocTitle=10g : Transportable Tablespaces Across Different  
Platforms&bmDocType=BUht](https://support.oracle.com/CSP/ui/flash.html-tab=KBHome(page=KBHome&id=()),(page=KBNavigator&id=(bmDocDsrc=KB&bmDocID=243304.1&from=BOOKMARK&viewingMode=1143&bmDocTitle=10g : Transportable Tablespaces Across Different Platforms&bmDocType=BUht)
- 371556.1: How to Move Tablespaces Across Platforms Using Transportable Tablespaces with RMAN  
[https://support.oracle.com/CSP/ui/flash.html -  
tab=KBHome\(page=KBHome&id=\(\)\),\(page=KBNavigator&id=\(bmDocDsrc=KB&bmDocID=371556.1&from=  
BOOKMARK&viewingMode=1143&bmDocTitle=How to Move Tablespaces Across Platforms Using  
Transportable Tablespace](https://support.oracle.com/CSP/ui/flash.html-tab=KBHome(page=KBHome&id=()),(page=KBNavigator&id=(bmDocDsrc=KB&bmDocID=371556.1&from=BOOKMARK&viewingMode=1143&bmDocTitle=How to Move Tablespaces Across Platforms Using Transportable Tablespace)

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## Appendix G: For More Information

- The racking, power, and installation of the chassis are described in the installation guide:  
[http://www.cisco.com/en/US/docs/unified\\_computing/ucs/hw/chassis/install/ucs5108\\_install.html](http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/chassis/install/ucs5108_install.html)
- Cisco Unified Computing System CLI Configuration Guide:  
[http://www.cisco.com/en/US/docs/unified\\_computing/ucs/sw/cli/config/guide/1.4/b\\_UCSM\\_CLI\\_Configuration\\_Guide\\_1\\_4.html](http://www.cisco.com/en/US/docs/unified_computing/ucs/sw/cli/config/guide/1.4/b_UCSM_CLI_Configuration_Guide_1_4.html)
- Cisco UCS Manager GUI Configuration Guide:  
[http://www.cisco.com/en/US/docs/unified\\_computing/ucs/sw/gui/config/guide/1.4/b\\_UCSM\\_GUI\\_Configuration\\_Guide\\_1\\_4.html](http://www.cisco.com/en/US/docs/unified_computing/ucs/sw/gui/config/guide/1.4/b_UCSM_GUI_Configuration_Guide_1_4.html)
- VP for Unified Storage System—A Detailed Review:  
<http://www.emc.com/collateral/software/white-papers/h8058-fast-vp-unified-storage-wp.pdf>
- EMC FAST Cache—A Detailed Review:  
<http://www.emc.com/collateral/software/white-papers/h8046-clariion-celerra-unified-fast-cache-wp.pdf>
- EMC FAST VP for Unified Storage System—A Detailed Review:  
<http://www.emc.com/collateral/software/white-papers/h8058-fast-vp-unified-storage-wp.pdf>
- Additional information about EMC PowerPath/VE:  
<http://www.emc.com/collateral/software/data-sheet/l751-powerpath-ve-multipathing-ds.pdf>
- Additional information about EMC VNX:  
<http://www.emc.com/collateral/hardware/data-sheets/h8520-vnx-family-ds.pdf>

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