

# Installing Cisco Performance Engine

The Cisco Performance Engine (Cisco PerfE) software collects, processes, and stores performance data temporarily from various collection points. Cisco PerfE also sends normalized and formatted data to upper layer performance management applications. Cisco PerfE has software entities called collectors that interact with the data sources and collection points. These collectors can be created, controlled, and reconfigured without having to stop the Cisco PerfE application.

**Note**

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known as the Data Aggregation Server (DAS), therefore, you might see the abbreviation **das**

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This chapter includes the following sections:

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## General Installation Information

**Note**

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When installing Cisco Performance Engine, Release 2.1.5, consider the following:

- Cisco Performance Engine supports the Solaris 8 and Red Hat Enterprise Linux ES 2.1 platforms. For installation instructions on the Solaris platform, refer to the “[Installing Cisco PerfE on a Solaris Platform](#)” section on page 1-3. For installation instructions on the Linux platform, refer to the “[Installing Cisco PerfE on a Linux Platform](#)” section on page 1-8.

If you are upgrading from a previous version of Cisco PerfE to version 2.1.5, refer to the “[Upgrading Cisco Performance Engine](#)” section on page 1-13.

**System Recommendations**

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- **dasadmin** **perfegrp**  
account is used for Cisco PerfE administration purposes. You can set the password for the **dasadmin** account after installation.  
If the **dasadmin** account already exists and is associated with a group other than **perfegrp**, **perfegrp** will be added as a supplementary group for the **dasadmin** account.




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The installation process creates a **dasadmin** account on standalone machines. If the system upon which Cisco PerfE is going to be installed is under the NIS domain, you must explicitly create a **dasadmin** group and a **dasadmin** account (associated with the **dasadmin** group) before installation.

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## System Recommendations

B of disk storage for the Cisco PerfE software, which includes the runtime storage requirements.

### Solaris Platform

- 750 MHz CPUs
- Two 36 GB hard disk drives
- Two GB of memory
- DVD-ROM or an FTP server
- Two 10/100 Fast Ethernet network interface cards
- Solaris 8.

### Linux Platform

- Intel Pentium III 1.40 GHz 133 MHz bus
- Two GB RAM
- Two 18 GB hard disk drives
- One CD-ROM (24X)
- One 10/100 Fast Ethernet Network card
- Red Hat Enterprise Linux ES 2.1.

# Installing Cisco PerfE on a Solaris Platform

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## Directory Structure

- **bin**—contains the scripts/executables
  - lib**—contains Cisco PerfE jar files
  - config**
    - **das.properties**
    - log4j.properties**
    - package.properties**
  - config/cli**
  - config/EventTrigger**
  - config/ioscli**
  - config/template-**
  - config/baselines-**
  - baseline/bin-**
  - baseline/startup-db-**
  - baseline/backup-**
  - data**
  - data/bts**
  - data/radius**
  - data/VoipCorrelator**
  - data/VoipDasCollector**
  - db**
  - ddc**
  - examples**
  - logs**
    - perfeSom.log**
    - das.log dasadmin.log cdr.log configAudit.log**
  - MIBS**
  - plugin**
  - schema**
  - tmp**

**tomcat**  
**tools**

## Before You Begin

**CSCOPerfE-solaris-2.1.5**



**dasadmin**

**Step 1**

**UNWxcu4**

**% pkgchk -l -p /usr/xpg4/bin/sed**

**SUNWxcu4**

**Step 2**

**%**

3892961305 224794112 CSCOPerfE-solaris-2.1.5

**Step 3**

**Step 4**

*<ip\_address\_of\_another\_host>*

**Step 5**

1795381629 4764 getInput.sh

**Step 6**

**/db/cnsperfe\_db**  
**/data/cnsperfe\_data**



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### Step 7

```
/etc/system  
set rlim_fd_max=2048  
  
as.properties  
das.ulimit.maxOpenFiles=2048
```

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For instruction on installing the Cisco PerfE software, continue to the following section.

## Installing the Cisco PerfE Software

### Starting an Interactive Installation

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#### Step 1

```
#
```

- Step 2** Install the Cisco PerfE software by going to the directory where the file is located, then invoke the command:

```
#
```

- Step 3** Follow the instructions generated by the program. The following is sample output of an interactive installation:

```
The following packages are available:
```

```
 1 CSCOPerfE      Cisco CNS-PerfE  
    (sparc) 2.1.5
```

```
Select package(s) you wish to process (or 'all' to process all packages). (default: all)  
[?,??,q]: 1
```

```
Processing package instance <CSGOPerfE> from <CSGOPerfE-solaris-2.1.5>
```

Cisco CNS-PerfE  
(sparc) 2.1.5

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distribution and decompilation.

Do you want to use the default base directory (/opt/CSCOPerfE)? [y,n,?] **y**

Do you want to use the default database directory (/opt/CSCOPerfE/db)? [y,n,?] **y**

Do you want to use the default data directory (/opt/CSCOPerfE/data)? [y,n,?] **y**



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The new base directory is set to /opt/CSCOPerfE  
## Executing checkinstall script.  
Checking installation parameters...  
Using </opt/CSCOPerfE> as the package base directory.  
## Processing package information.  
## Processing system information.  
## Verifying disk space requirements.  
## Checking for conflicts with packages already installed.  
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user permission during the  
process of installing this package.

Do you want to continue with the installation of <CSCOPerfE> [y,n,?] **y**

Please wait.installation in progress.  
Installation of <CSCOPerfE> was successful.

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*Cisco Performance Engine User Guide*

## Starting a Non-Interactive Installation

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**Step 1**

**Step 2**

**Step 3**

**Step 4**

**Step 5**

**Step 6**

**Step 7****Step 8**

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# Installing Cisco PerfE on a Linux Platform

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- , page 1-9.

## Before You Begin

This section describes the pre-installation procedures you should follow when you install Cisco PerfE version 2.1.5 on a Linux platform for the first time. If you are running a previous version of Cisco PerfE, remove the Cisco PerfE files using the uninstall instructions described in the “[Uninstalling Cisco PerfE](#)” section on page 1-15.

The name of the Cisco PerfE installation files for the Linux version is:

**i386.rpm**



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**dasadmin**

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```
netstat -nr
```

```
ping
```

```
cksum CSCOPerfE-2.1.5B08-0.i386.rpm
```

```
XFree86-libs
```

```
/etc/inittab
```

3(Multi User Mode)

id:3:initdefault:

```
ncurses4-5.0-5.i386.rpm
```



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```
--nodeps
```

---

```
ncurses
```

---

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```
root
```

```
su
```

```
su root
```

```
rpm
```

```
rpm -i --nodeps CSCOPerfE-2.1.5B08-0.i386.rpm
```

```
/opt/CSCOPerfE
```

```
rpm -i --nodeps --prefix <install_dir> CSCOPerfE-2.1.5B08-0.rpm
```

```
<install_dir>
```

```
rpm
```

```
CSCOPerfE
```

```
rpm --query -i CSCOPerfE
```

# Installation Options

- Install the Microsoft SQL JDBC driver in order to retrieve data from the Call Manager collector.  
Install the Autostart feature to automatically start Cisco PerfE after your system has been rebooted.  
Refer to the following sections for instructions.

## Installing MS SQL JDBC for the Call Manager CDR Collector



### Step 1

<http://www.microsoft.com/downloads/details.aspx?FamilyID=4f8f2f01-1ed7-4c4d-8f7b-3d47969e66ae&DisplayLang=en>

Download the UNIX version:

Install the Microsoft SQL JDBC as per instructions from the download website.

Copy the SQL Server JDBC libraries into the <CNS\_PerfE\_HOME>

a.

> <ip\_address\_CNS-PerfE\_host>

:

**Password** <password>

b.

/opt/msSQLjdbc

/opt/CSCOPerfE

cp /opt/msSQLjdbc/lib/\*.jar /opt/CSCOPerfE/tools/msjdbc/\*

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## Autostart



**Note**

/etc/inittab

3



**Note**

dasadmin

dasadmin

TERM

.login

dasadmin

TERM

.profile

## Installing Autostart

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Step 1

Step 2

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## Uninstalling Autostart

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Step 1

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Step 2

## Starting and Stopping Performance Engine

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## Starting Performance Engine

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Step 1

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Step 2

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Step 3

## Checking the Cisco PerfE Servers Status

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Step 1

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Step 2

## Starting the Performance Engine GUI

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Step 1

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Step 2

## Stopping Cisco PerfE

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Step 1

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Step 2

## Upgrading Cisco Performance Engine

### Requirement



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Note

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## Recommendations

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\*\*\*\*\*User interruption not allowed during upgrade\*\*\*\*\*

The upgrade is continued, however, it is recommended to interrupt the upgrade process.

## Upgrade Considerations

- The username will be stored in the database ( ).
- will be upgraded with 20 new columns for Match Statement, Traffic Shaping, and Random Detect Statistics.
- SystemCollector table will be upgraded with the new PerfE processes statistics.
- Cisco PerfE configuration files (for example, and ) will be updated with the changed values.
- Other files (such as those in the MIBs, templates, baselines, plugin, cli, and ioscli directories) will be copied to their respective locations.
- If upgrading from 2.1, 2.1.1, or 2.1.2 to 2.1.5, be sure to upgrade the following property in the file if the secure password was not modified in an earlier installation:

**db.password.secure=vnMDzh7Q9RA=**



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**stop.sh all**

**backup.sh**

*<backup directory>*



---

*<CNS\_PerfE\_HOME>*

```
upgrade.sh  
cd /bin  
./upgrade.sh  
  
das.properties Db.properties ddc  
  
restore.sh
```

**Step 9**

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## Uninstalling Cisco PerfE



**Step 1**

**dasadmin**

```
telnet  
login dasadmin  
Password
```

**Step 2**

```
root su  
su root
```

**Step 3**

```
/bin  
cd /bin
```

**Step 4**

**./uninstall.sh**

**Step 5**

```
root  
exit
```

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■ Uninstalling Cisco PerfE