



## CHAPTER 2

# Installing and Logging In to ISC

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Use the information described in this chapter in the following order:



**Note**

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See [Chapter 1, “System Recommendations,”](#) before installing ISC.

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- [Packages Included with ISC, page 2-1](#)
- [Initial Configuration—Creating the ISC Owner, page 2-2](#)
- [Installing ISC Overview, page 2-2](#)
- [Installing ISC Using the Graphical User Interface, page 2-3](#)
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- [Configuring HTTPS, page 2-21](#)
- [Logging In for the First Time, page 2-22](#)
- [Installing License Keys, page 2-23](#)
- [Upgrading ISC Repositories to ISC 5.0, page 2-24](#)
- [Launching Topology Tool, page 2-25](#)
- [Uninstalling ISC, page 2-25](#)

## Packages Included with ISC

The ISC installer includes the following third party software:

- ADCi® World Map Version 3.1
- AdventNet® SNMP Version 4.0
- Apache® Tomcat Version 5.5
- ILOG® CPLEX Version 7.5
- JCraft® JSch Version 0.1.30
- Macrovision® FlexLM Version 7.2e
- SourceForge® Ehcache Version 1.2.4
- Sun Microsystems® Java JRE Version 1.4.2\_08

- Sybase® Adaptive Server Anywhere (ASA) Version 8.0.1
- TIBCO® Rendezvous Version 7.1.15

## Initial Configuration—Creating the ISC Owner



### Note

If you are planning to use an Oracle database, understand that ISC 5.0 has been tested with Oracle Database 10g, Enterprise Edition Release 10.2.0.1.0 - 64 bit Production. If you would like to use another version of Oracle 10g, see Oracle's compatibility information. If you are upgrading ISC and were using a version of Oracle other than 10g, you must transfer your Repository to Oracle 10g. This can be done using Oracle import/export utilities or other methods. Proceed to [Appendix A, "Setting Up Oracle for ISC"](#) before continuing with the ISC installation. After you complete the Oracle set up, return here.

The first time you install ISC, create a UNIX user to own the software. This user is the default username when you log in to ISC. Create the user and group using Solaris commands or the Solaris Admintool. This user must have a valid group ID and read and write permissions to the install directory.

To add a user to your server using the standard Solaris commands, follow these steps:

**Step 1** At the Solaris prompt, log in as **root**.

**Step 2** To create the user, enter:

```
useradd -d /users/<username> -m -s /bin/<shell_type> <username>
passwd <username>
```

where:

**-m** creates the directory specified in **-d**

**<shell\_type>** is **sh** for the Bourne Shell, **ksh** for the Korn Shell, or **csh** for the C Shell

**iscadm** is recommended as the **<username>**.

**Step 3** At the prompt, enter a password.

## Installing ISC Overview

To add ISC to your system, either as a new ISC customer or a customer upgrading from an existing ISC release, you can choose one of the following two ways to install:

- [Installing ISC Using the Graphical User Interface, page 2-3](#)
- [Installing ISC Using the Command Line Installer, page 2-19](#)



### Note

It is not possible to install ISC for use with an Oracle database using the Command Line Installer. Therefore, if you will be using Oracle, be sure to use the GUI installation method, explained in the ["Installing ISC Using the Graphical User Interface" section on page 2-3](#).

Cisco recommends you install ISC using the Graphical User Interface (GUI) installer. This option provides more configuration options.

The installer checks for two kinds of disk space:

- In the intended install location, you need 1.2 GB free for the binaries plus an extra 250 MB for log file growth and the installation of the Cisco CNS Configuration Engine 1.3.x, 1.4, 1.5, or 2.0 software.
- In the database directory, you need 1 GB free. For large systems, you should have 4 to 5 GB of space. If the directory has less than 1.2 GB free, you can still install ISC, but you might run out of space.

See [Chapter 1, “System Recommendations”](#) for more information about disk space and planning.

The complete installation for the ISC software requires 1.2 GB of free disk.

## Installing ISC Using the Graphical User Interface

After reviewing the information in the [“Installing ISC Overview” section on page 2-2](#), you can follow these steps to install the ISC software using the Graphical User Interface (GUI):



### Note

If an existing ISC installation is running, enter the **stopall** command. See the [Cisco IP Solution Center Infrastructure Reference, 5.0](#) for information about all WatchDog commands.

### Step 1

Insert the ISC installation CD-ROM.



### Caution

When you insert the CD-ROM, the File Manager is invoked automatically. Do *not* use the File Manager to install the ISC product. Run the installation script from a terminal window.



### Note

If you choose to remotely install over a wide area network, you must add two spaces at the end of each field for which you modify the entry. This is to work around a potential problem that occurs when you have two or more SSH tunnels between your location and your installation machine's location.

### Step 2

Open a terminal window and log in as **root**.

### Step 3

Change to the CD ROM directory:

```
$ cd /cdrom/cdrom0
```

### Step 4

If you have an existing ISC installation with a database, you *must* back up your current database. See the instructions to back up and restore an ISC repository or create a standby system, as explained in [Appendix C, “Backup and Restore of ISC Repository and Standby System”](#).

### Step 5

Execute the ISC product installation script:

```
cdrom> ./install.sh
```

The ISC software is installed by default in the **/opt/isc-5.0** directory or a directory set up as follows.

If you are upgrading ISC from an existing version, make sure the existing ISC is shut down completely. Then do *one* of the following:

- a. Install ISC 5.0 in the same directory with the same directory name as the existing ISC product, as follows:

- Save the ISC installation for possible uninstall purposes, as follows:

```
tar cvf <directory_name>.tar /opt/<directory_name>
```

- Select this directory name in [Step 8, Figure 2-3, “Specify Directory Location.”](#)

-or-

- b. Install ISC 5.0 in the same directory with a new name.

For example, if you are upgrading from ISC 4.2 to ISC 5.0 and the ISC installation is under the directory **/opt/isc-4.2**, then install ISC 5.0 in the same directory and rename it to **/opt/isc-5.0**, with steps like the following:

- Save the ISC 4.2 installation for possible uninstall purposes, as follows:

```
tar cvf isc-4.2.tar /opt/isc-4.2
```

- Rename the directory, as follows:

```
mv /opt/isc-4.2 /opt/isc-5.0
```

- Select the directory **/opt/isc-5.0** in [Step 8, Figure 2-3, “Specify Directory Location.”](#)

-or-

- c. Install ISC 5.0 in a separate directory.

For example, if you are upgrading from ISC 4.2 to ISC 5.0 and the ISC 4.2 installation is under the directory **/opt/isc-4.2**, then install ISC 5.0 in a new directory **/opt/isc-5.0**, with steps like the following.

- Create the new ISC 5.0 directory, as follows:

```
mkdir /opt/isc-5.0
```

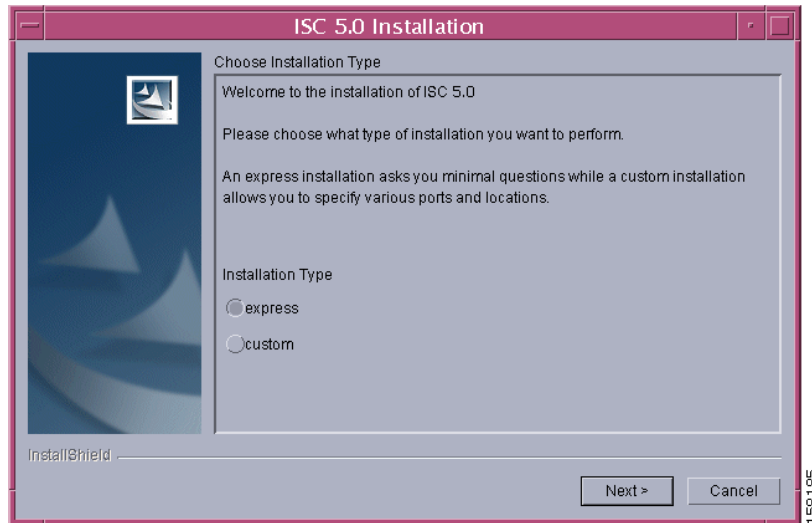
- Copy the Repository from the ISC 4.2 directory to the new ISC 5.0 directory, as follows:

```
cp -r /opt/isc-4.2/Repository /opt/isc-5.0
```

- Select the directory **/opt/isc-5.0** in [Step 8, Figure 2-3, “Specify Directory Location.”](#)

**Step 6** In the next window, as shown in [Figure 2-1, “Choose Installation Type,”](#) choose either the default **express** option or the **custom** option, then click **Next**.

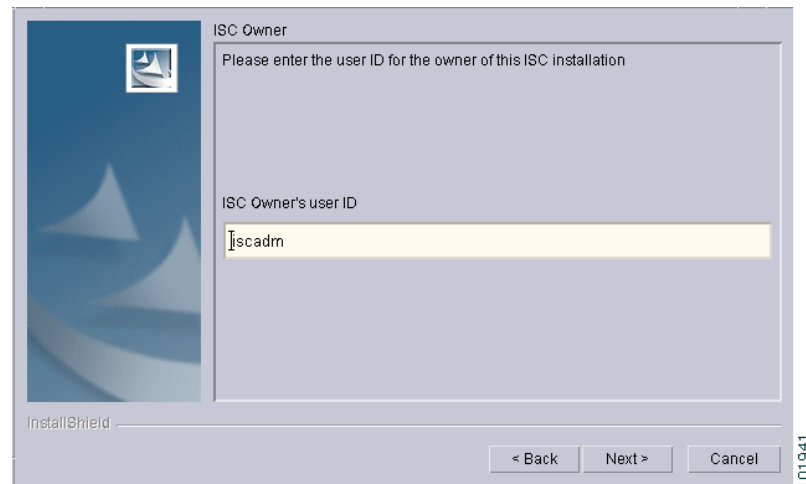
When you click **express**, you have a minimal number of choices to make. When you click **custom**, you can specify various ports and locations and you can change the watermark level for available disk space.

**Figure 2-1** Choose Installation Type

**Step 7** In the next window, shown in [Figure 2-2](#), “Choose ISC Owner,” enter the username you created in [Step 2](#) of the “Initial Configuration—Creating the ISC Owner” section on page 2-2.

**Note**

This field is only used when you are installing as **root**.

**Figure 2-2** Choose ISC Owner**Note**

If you enter an invalid name, you will receive a message indicating the name is invalid.

**Step 8** Specify the location of the directory where you want to install, as shown in [Figure 2-3](#), “Specify Directory Location,” and then click **Next**. You can click **Browse** as an aid to finding an appropriate directory.

**Note**

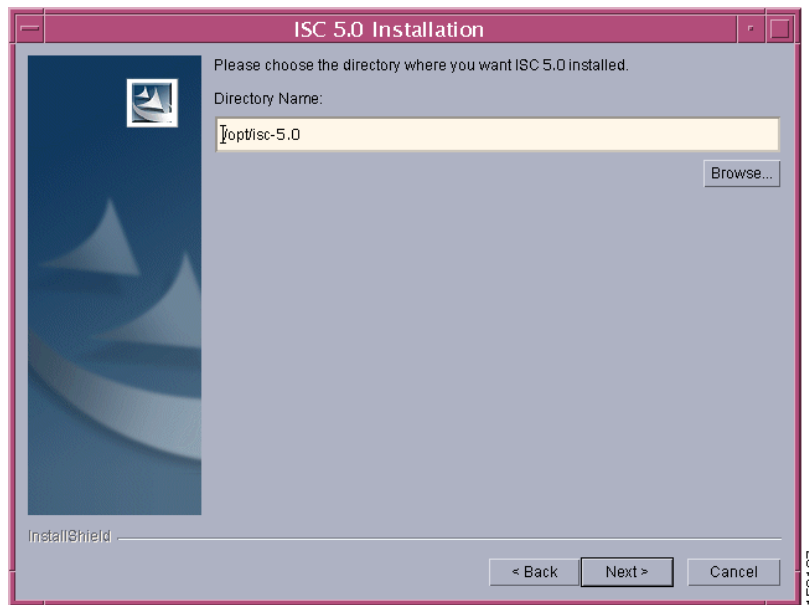
If you are not installing as **root**, you must have write permission for this directory.

**Note**

In the intended install location, you need 1.2 GB free for the binaries plus an extra 250 MB for log file growth and the installation of the Cisco CNS Configuration Engine 1.3.x, 1.4, 1.5, or 2.0 software.

In the database directory, you need 1 GB free. For large systems, you should have 4 to 5 GB of space. If the directory has less than 1.2 GB free, you can still install ISC, but you might run out of space.

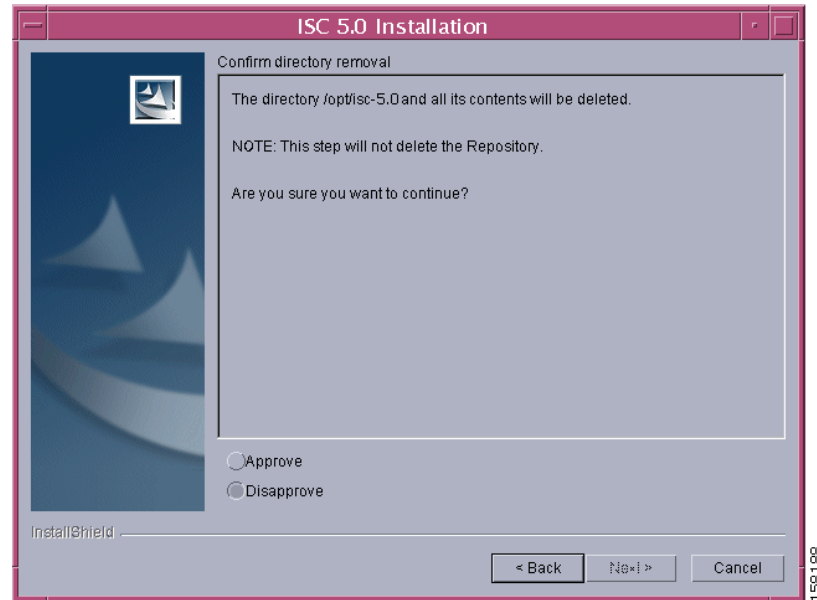
**Figure 2-3 Specify Directory Location**



**Step 9** If in [Step 8](#) you chose a directory that already exists, you proceed as follows. If you chose a new directory to be created, you proceed to [Step 10](#).

In [Figure 2-4](#), “[Confirm Directory Removal](#),” if the directory you chose already exists and you must click the default radio button **Disapprove**, you cannot proceed. You must click **Back** and return to [Step 8](#).

Be *very* careful. If you click the radio button **Approve**, you will overwrite the contents in the existing directory. Click **Next**.

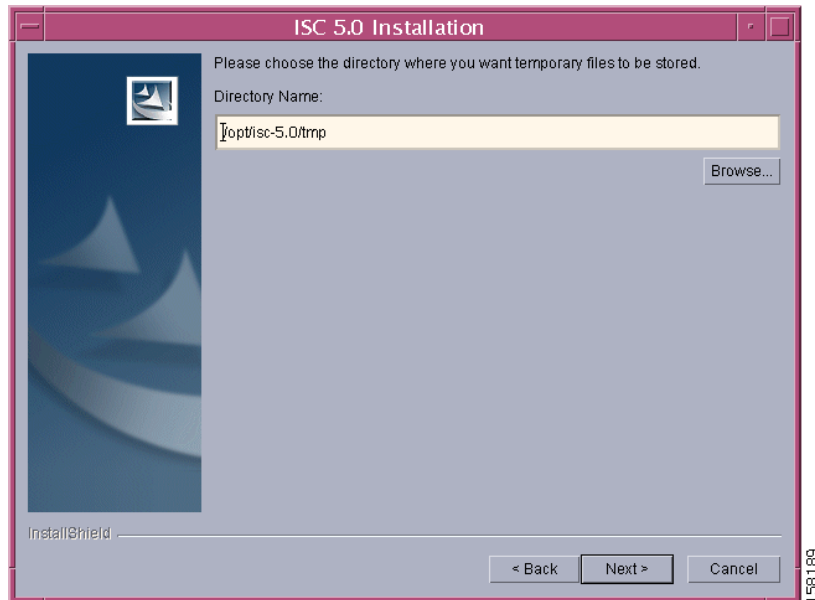
**Figure 2-4** *Confirm Directory Removal*

- Step 10** If in [Step 6](#) you chose **express**, proceed to [Step 29](#). If you chose **custom**, then you must enter the location where you want temporary files stored, as shown in [Figure 2-5](#), “Choosing the Directory for Temporary Files.”

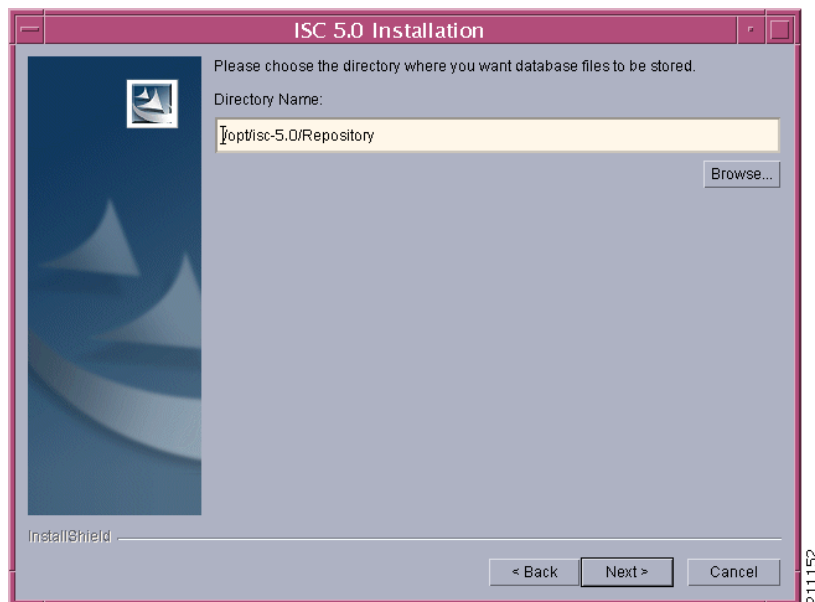
**Note**

In the intended install location, you need 1.2 GB free for the binaries plus an extra 250 MB for log file growth and the installation of the Cisco CNS Configuration Engine 1.3.x, 1.4, 1.5, or 2.0 software.

In the database directory, you need 1 GB free. For large systems, you should have 4 to 5 GB of space. If the directory has less than 1.2 GB free, you can still install ISC, but you might run out of space.

**Figure 2-5** *Choosing the Directory for Temporary Files*

- Step 11** Specify the Directory Name where you want database files to be stored, as shown in [Figure 2-6](#), “Where to Store Database Files,” and then click **Next**.

**Figure 2-6** *Where to Store Database Files*

- Step 12** If in [Step 11](#) you chose a directory that already contains a repository, you have three options, as shown in [Figure 2-7](#), “Repository Choices,”: **Keep existing ISC repository**, **Overwrite existing ISC repository**, or **Upgrade existing ISC repository**. Then click **Next** to proceed. Otherwise proceed to [Step 13](#).

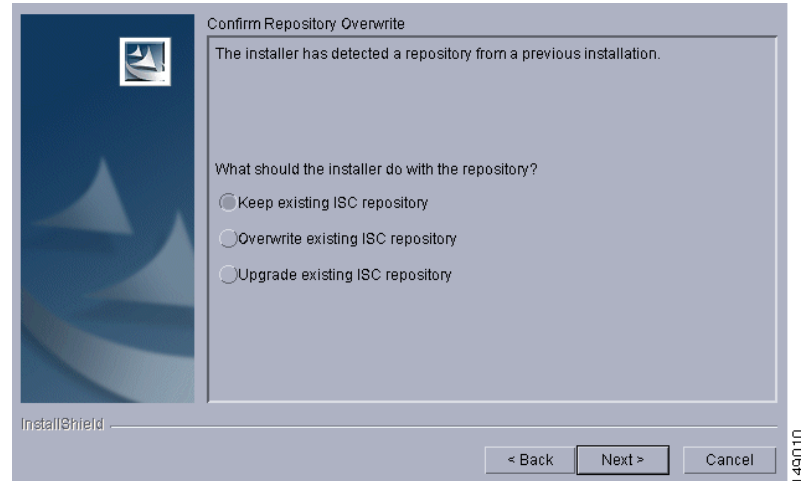
When you click **Keep existing ISC repository**, proceed to [Step 13](#).



When you click **Overwrite existing ISC repository**, proceed to [Step 14](#).

When you click **Upgrade existing ISC repository**, proceed to [Step 15](#).

**Figure 2-7 Repository Choices**



- Step 13** After choosing **Keep existing ISC repository** in [Figure 2-7](#), “[Repository Choices](#),” you will be given the opportunity in [Figure 2-8](#), “[Confirmation of Keeping Existing ISC Repository](#),” to **Disapprove** (the default). If you choose **Approve**, you will keep your existing ISC repository, which could be incompatible with this version of ISC.



**Note**

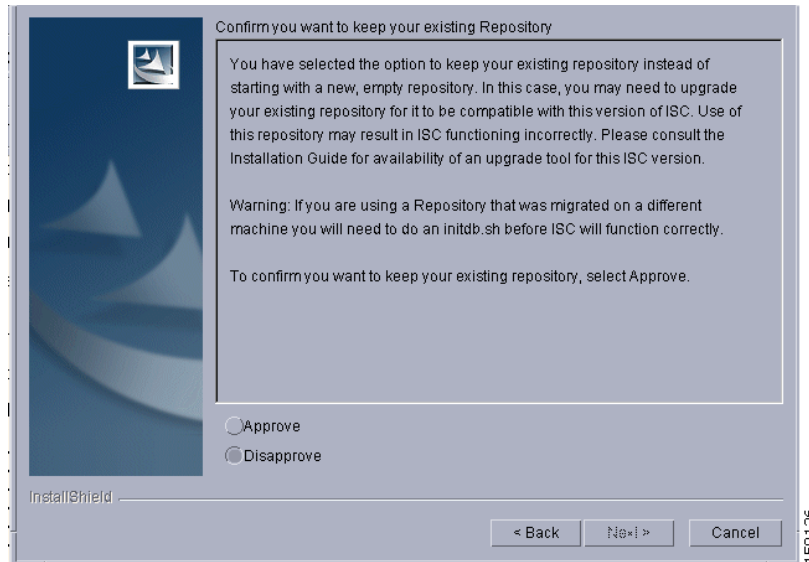
After you complete your installation and before you use ISC, to upgrade your down-level ISC 3.2 or later repository, you *must* follow the steps in the “[Upgrading ISC Repositories to ISC 5.0](#)” section on [page 2-24](#).



**Note**

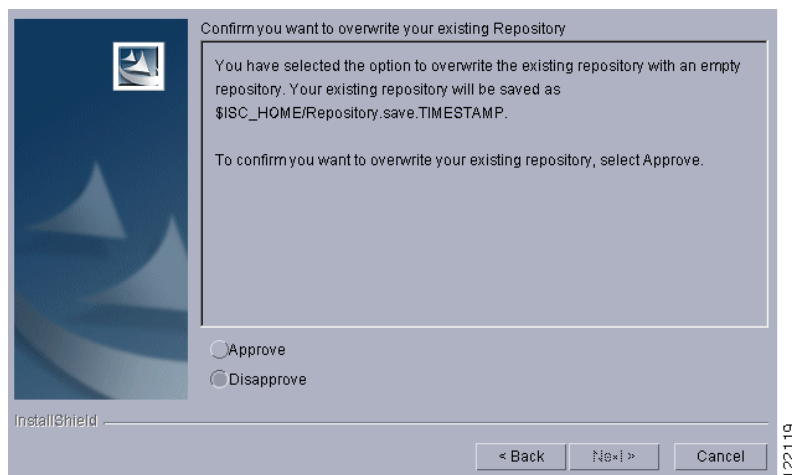
There is no direct way to upgrade from ISC 3.0 or ISC 3.1 to ISC 5.0. To upgrade from ISC 3.0 or ISC 3.1 to ISC 5.0, you *must* contact ISC Marketing, e-mail: [isc-mktg@cisco.com](mailto:isc-mktg@cisco.com).

Click **Next** and proceed to [Step 18](#).

**Figure 2-8** Confirmation of Keeping Existing ISC Repository

**Step 14** After choosing **Overwrite existing ISC repository** in Figure 2-7, “Repository Choices,” you will be given the opportunity in Figure 2-9, “Confirmation of Overwriting Existing ISC Repository,” to **Disapprove** (the default). If you choose **Approve**, you will overwrite the existing repository with an empty repository and your existing repository will be saved as **\$ISC\_HOME/Repository.save.<timestamp>**.

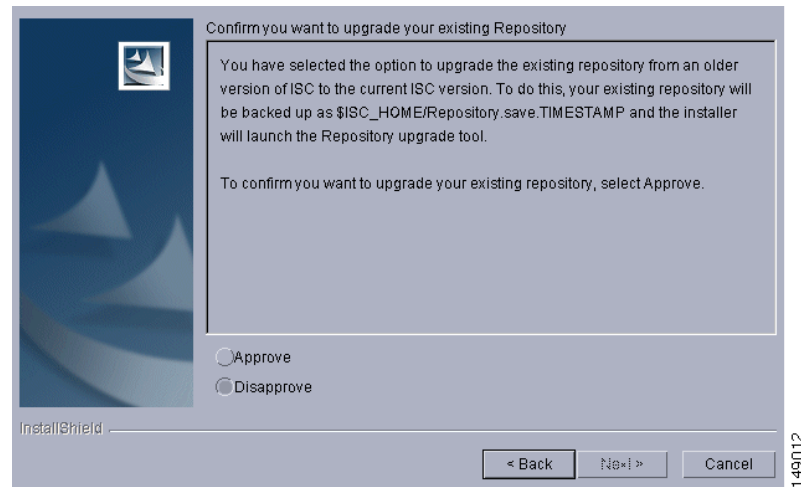
Click **Next** and proceed to Step 18.

**Figure 2-9** Confirmation of Overwriting Existing ISC Repository

**Step 15** After choosing **Upgrade existing ISC repository** in Figure 2-7, “Repository Choices,” you will be given the opportunity in Figure 2-10, “Confirmation of Upgrading Your ISC Repository After Installation,” to **Disapprove** (the default). If you choose **Approve**, you will overwrite the existing repository with an empty repository and your existing repository will be saved as **\$ISC\_HOME/Repository.save.<timestamp>**. Then your installation will proceed with a new empty repository.

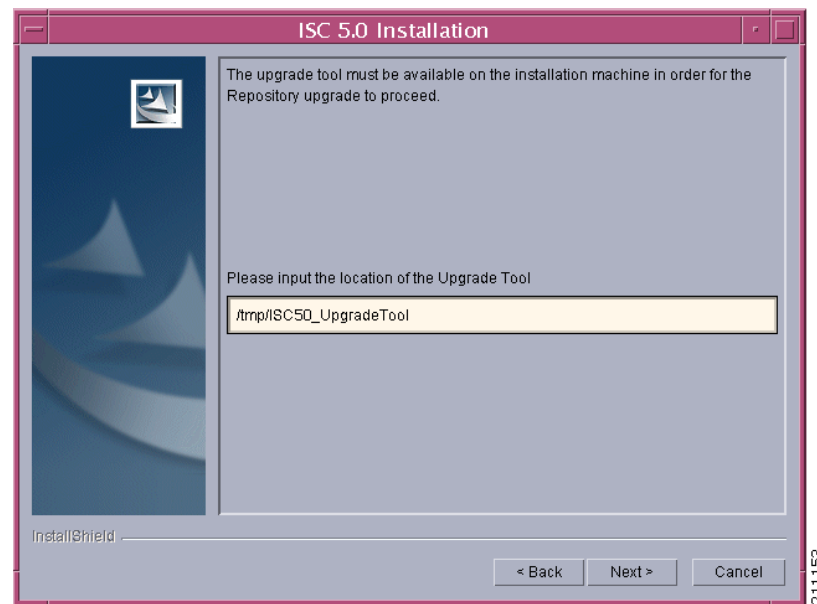
Click **Next** and proceed to [Step 18](#).

**Figure 2-10** Confirmation of Upgrading Your ISC Repository After Installation



**Step 16** After you Approve to upgrade your existing Repository, enter the location of the Upgrade Tool, as shown in [Figure 2-11](#), “[Location of Upgrade Tool](#).”

**Figure 2-11** Location of Upgrade Tool



**Step 17** If you inaccurately entered the location of the Upgrade Tool, you will receive a message as shown in [Figure 2-12](#), “[Invalid location of Upgrade Tool](#),” and you must return to [Step 16](#) and enter the correct Upgrade Tool location.

**Figure 2-12** Invalid location of Upgrade Tool

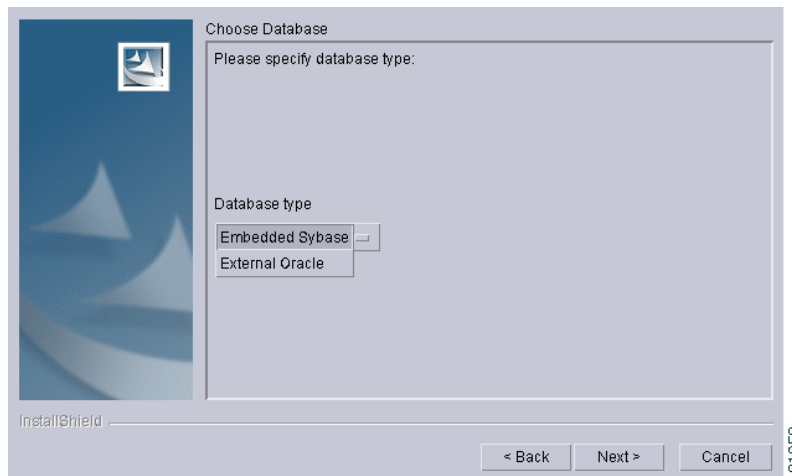
- Step 18** Choose the database you will use, as shown in [Figure 2-13](#), “Choosing a Database”. From the drop-down menu, choose either **Embedded Sybase** (Sybase ASA, 8.0.1 is embedded) or **External Oracle**. (Testing of ISC 5.0 has been done with Oracle Database 10g, Enterprise Edition Release 10.2.0.1.0 - 64 bit Production.) If you would like to use another version of Oracle 10g, see Oracle’s compatibility information.) Then click **Next**.

**Note**

If you are upgrading from a version of ISC before ISC 5.0, make sure your ISC Repository has been imported to the Oracle Database 10g, Enterprise Edition Release 10.2.0.1.0 - 64 bit Production, as indicated in the [“Initial Configuration—Creating the ISC Owner”](#) section on page 2-2.

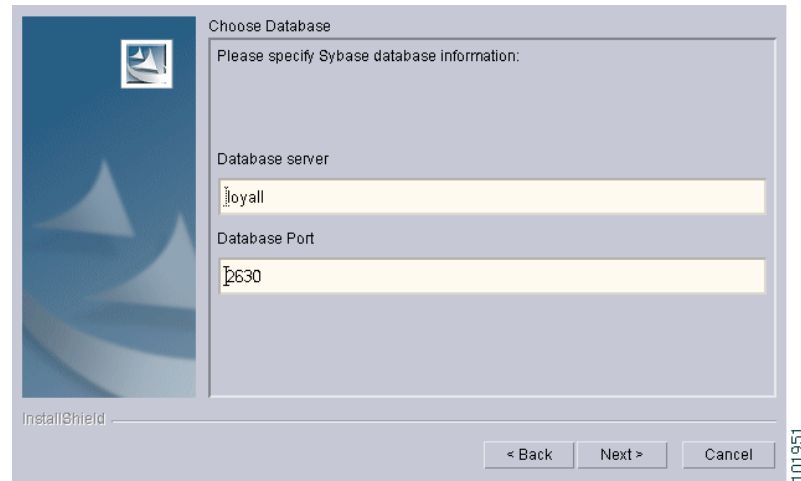
**Note**

The embedded Sybase database is used for service-level agreement (SLA), independent of whether you are using Oracle as your database.

**Figure 2-13** Choosing a Database

- Step 19** If you chose **Embedded Sybase** in [Step 18](#), enter the **Database server** name, as shown in [Figure 2-14](#), “Choosing a Database—Sybase.” The **Database Port** number is automatically updated. If you choose to change the database port number, enter your choice in the **Database Port** field. Click **Next**, and then proceed directly to [Step 22](#).

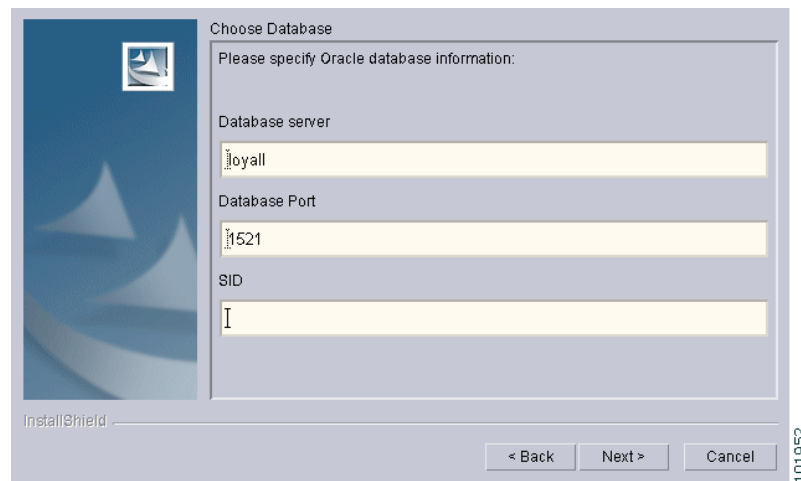
If you chose **External Oracle** in [Step 13](#), proceed to [Step 20](#).

**Figure 2-14** *Choosing a Database—Sybase*

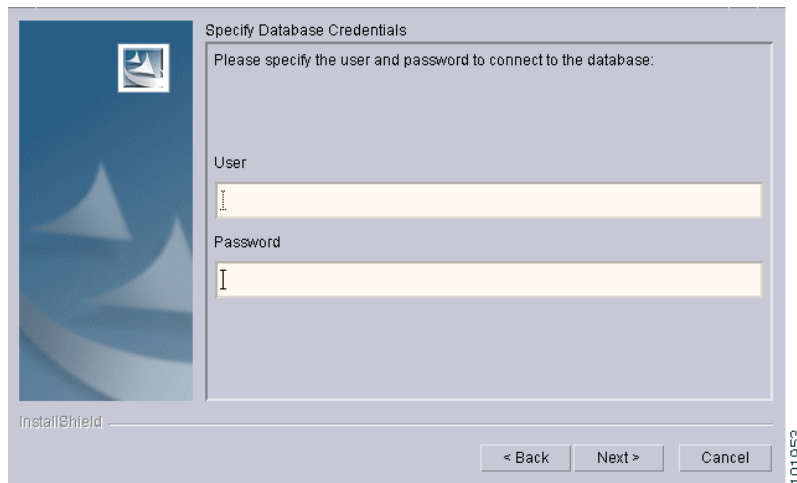
**Step 20** If you chose **External Oracle** in [Step 18](#), you must enter the **Database server** name, the **Database Port** number, and the Oracle server instance identifier (**SID**), as shown in [Figure 2-15](#), “[Choosing a Database—Oracle](#).” Otherwise, proceed directly to [Step 22](#).

**Note**

If you are upgrading from a version of ISC before ISC 5.0, make sure your ISC Repository has been imported to the Oracle Database 10g, Enterprise Edition Release 10.2.0.1.0 - 64 bit Production, as indicated in the “[Initial Configuration—Creating the ISC Owner](#)” section on [page 2-2](#).

**Figure 2-15** *Choosing a Database—Oracle*

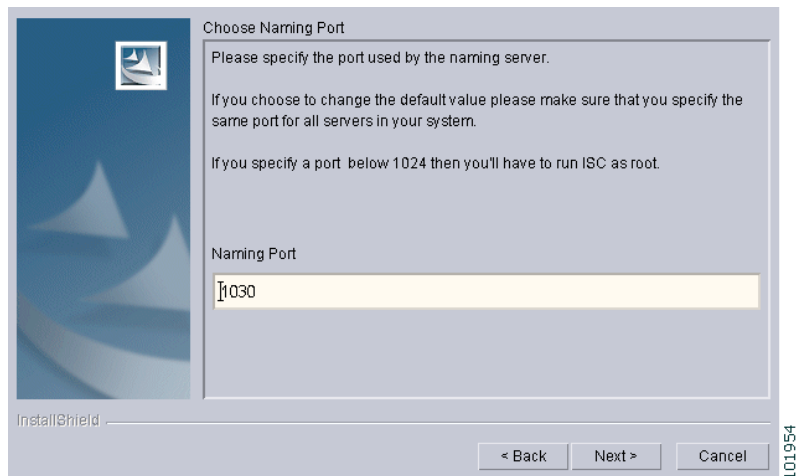
**Step 21** Because you chose **External Oracle** in [Step 18](#), you must set the Oracle database **User** and **Password** values, as shown in [Figure 2-16](#), “[Specifying Database Credentials](#).”

**Figure 2-16** Specifying Database Credentials

**Step 22** Specify the port used by the Naming Server, as shown in [Figure 2-17](#), “Specify the Port Used by the Naming Server,” then click **Next**.

**Note**

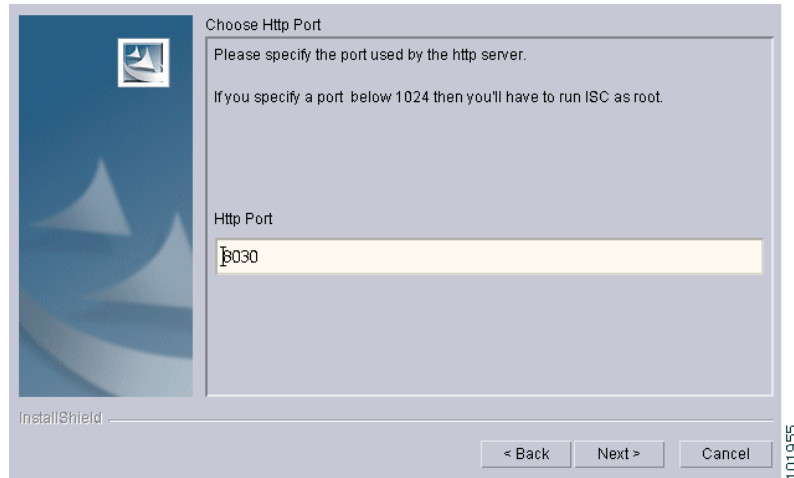
If you enter a Naming Port value less than 1024, the owner of the installation must be **root**. The owner of the installation is the user identified in [Figure 2-2 on page 2-5](#).

**Figure 2-17** Specify the Port Used by the Naming Server

**Step 23** Specify the port used by the HTTP server, as shown in [Figure 2-18](#), “Choose HTTP Port,” then click **Next**.

**Note**

If you enter an HTTP Port value less than 1024, the owner of the installation must be **root**. The owner of the installation is the user identified in [Figure 2-2](#).

**Figure 2-18 Choose HTTP Port**

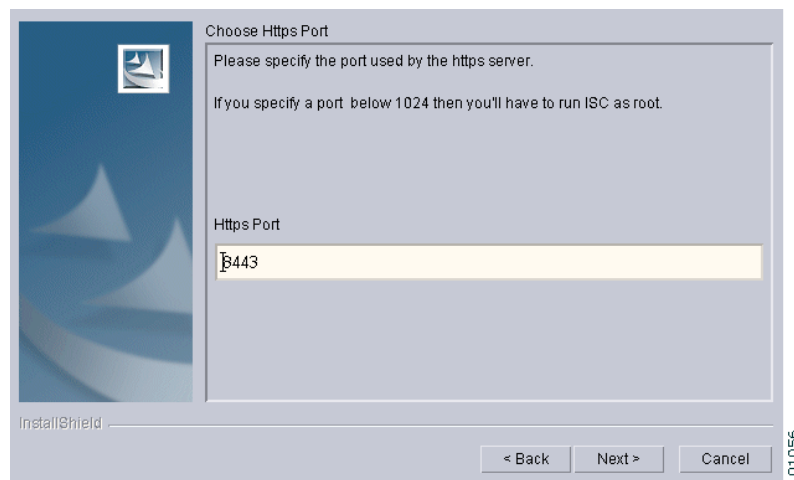
- Step 24** Specify the port used by the HTTP Over Secure Socket Layer (SSL) (HTTPS) server, as shown in [Figure 2-19](#), “[Choose HTTPS Port](#),” then click **Next**.

**Note**

If you enter an HTTPS Port value less than 1024, the owner of the installation must be **root**. The owner of the installation is the user identified in [Figure 2-2](#).

**Note**

To configure the web access to ISC, you must set up the HTTPS port as explained in [Step 35](#) and the “[Installing ISC Using the Command Line Installer](#)” section on [page 2-19](#).

**Figure 2-19 Choose HTTPS Port**

- Step 25** Specify the port used by the Rendezvous™ Agent (RVA). You must specify the RVA HTTP Port server, a TIBCO™ bus port used by ISC processes to communicate with each other. You must also specify the RVA Client Port, as shown in [Figure 2-20](#), “[Choose RVA Ports](#),” then click **Next**.

**Note**

If you enter an RVA HTTP Port or RVA Client Port value less than 1024, the owner of the installation must be **root**. The owner of the installation is the user identified in [Figure 2-2](#).

**Figure 2-20 Choose RVA Ports**

Choose RVA ports

Please enter RVA http port and the RVA port.

If you specify a port below 1024 then you'll have to run ISC as root.

RVA Http Port

7630

RVA Port

7600

InstallShield

< Back Next > Cancel

101957

**Step 26** Specify the port used by TIBCO, as shown in [Figure 2-21](#), “Choose TIBCO Port,” then click **Next**.

**Note**

If you enter a TIBCO Port value less than 1024, you *must* run ISC as **root**, the specification in [Figure 2-2](#).

**Figure 2-21 Choose TIBCO Port**

Choose TIBCO Port

Please specify the port used by TIBCO.

If you specify a port below 1024 then you'll have to run ISC as root.

Tibco Port

7530

InstallShield

< Back Next > Cancel

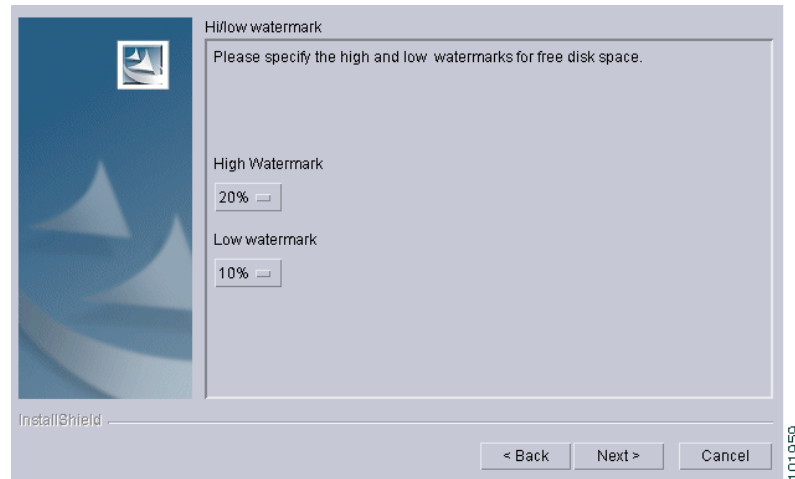
101958

**Step 27** When you click **Next**, the system checks whether any of the ports entered are duplicate port numbers. If duplicate port numbers are found, an error message indicates the two ports that have duplicate entries.



**Step 28** You can reset the High and Low watermarks for available disk space, as shown in [Figure 2-22](#), “[Setting Watermarks for Available Disk Space](#).” The defaults are 20% and 10% for High and Low respectively. Be sure the High watermark is a larger percentage than the Low watermark. When the High and Low watermarks are reached, you receive an e-mail indicating this, based upon setting your e-mail address correctly in [Step 29](#).

**Figure 2-22** *Setting Watermarks for Available Disk Space*



**Step 29** In [Figure 2-23](#), “[Setting E-mail Address for Receiving Watermark Information](#),” to receive e-mail you must specify the following:

- In the first text field, specify the hostname of the Simple Mail Transfer Protocol (SMTP).
- In the second text field, specify the username to display in the “From” field.
- In the third text field, specify the e-mail address to be notified when High and Low watermarks are reached, which indicates the specified disk space availability has been reached.
- In the fourth text field, specify the e-mail address to be notified when the ISC server restarts.

Then click **Next**.

**Figure 2-23** Setting E-mail Address for Receiving Watermark Information

**Step 30** The installation continues and the files are installed. The list of installation processes appears.

**Step 31** If the installation failed, you receive a failed message.

To review the log message, click **Back**.

If there was truncation of data, reinstall and add two spaces at the end of each field for which you have modified the entry.

**Step 32** If the installation was successful, you receive an Install Complete message. Even if you have a successful install, click **Back** to review the log to be sure there were no exceptions or failures. If data was truncated, reinstall and add two spaces at the end of each field for which you have modified the entry.

**Step 33** The ISC server is started automatically after the installation is successful.

**Step 34** Verify that ISC is properly installed, as follows:

- a. Source the ISC environment file in the \$ISC\_HOME/bin directory:

If **sh** or **ksh** shell: `. $ISC_HOME/bin/vpnenv.sh`

If **csh** shell: `source $ISC_HOME/bin/vpnenv.csh`

- b. Before logging in, repeat the following command until the servers are in the **started** mode. If any server is reported as **disabled**, ISC is not installed or configured correctly:

**wdclient status**

For more information about WatchDog commands, see the [Cisco IP Solution Center Infrastructure Reference, 5.0](#).

**Step 35** If you want to set up secure web access by using HTTPS, see the “Installing ISC Using the Command Line Installer” section on page 2-19. Then, proceed to Step 36.

**Step 36** If you are logging in for the first time, proceed to the “Logging In for the First Time” section on page 2-22.” Then, proceed to Step 37.

**Step 37** Before you can use any of the licensed services, proceed to the “Installing License Keys” section on page 2-23. Then, proceed to Step 38.

**Step 38** If you have an ISC repository, you *must* upgrade your repository to have access to it, as explained in the “Upgrading ISC Repositories to ISC 5.0” section on page 2-24.

**Note**

There is no direct way to upgrade from ISC 3.0 or ISC 3.1 to ISC 5.0. To upgrade from ISC 3.0 or ISC 3.1 to ISC 5.0, you *must* contact ISC Marketing, e-mail: [isc-mktg@cisco.com](mailto:isc-mktg@cisco.com). Then, proceed to [Step 39](#).

**Step 39** If you want to eventually use the Inventory Manager or the Topology Tool, your client machine *must* be set up properly. Proceed to the [“Launching Topology Tool”](#) section on page 2-25. This section explains what occurs and leads you to the launching explanations in the *Cisco IP Solution Center Infrastructure Reference, 5.0*. Then, proceed to [Step 40](#).

**Step 40** To uninstall ISC, proceed to the [“Uninstalling ISC”](#) section on page 2-25.

**Note**

To determine if servers are installed correctly, use the WatchDog commands explained in the *Cisco IP Solution Center Infrastructure Reference, 5.0*.

## Installing ISC Using the Command Line Installer

**Note**

It is not possible to install ISC for use with an Oracle database using the Command Line Installer. Therefore, if you will be using Oracle, be sure to use the GUI installation method, explained in the [“Installing ISC Using the Graphical User Interface”](#) section on page 2-3.

After reviewing the information in the [“Installing ISC Overview”](#) section on page 2-2, you can follow these steps to install the ISC software using the Command Line Installer:

**Note**

The command line installer only allows you to configure the installation directory and ISC owner. All other configuration options use default values. For more configuration options, use the GUI installer, explained in the [“Installing ISC Using the Graphical User Interface”](#) section on page 2-3.

**Step 1** Insert the ISC product CD-ROM.

**Note**

When you insert the CD-ROM, the File Manager is automatically invoked. Do *not* use the File Manager to install the ISC product. Run the installation script from a terminal window.

**Note**

If you choose to remotely install over a wide area network, you must add two spaces at the end of each field for which you modify the entry. This is to work around a potential problem that occurs when you have two or more SSH tunnels between your location and your installation machine's location.

**Step 2** Open a terminal window and log in as **root**.

**Step 3** Change to the CD-ROM directory, as follows:

```
$ cd /cdrom/cdrom0
```

- Step 4** If you are upgrading ISC from an existing version, use the **stopall** command to be sure the existing ISC is shut down completely. See the [Cisco IP Solution Center Infrastructure Reference, 5.0](#) for information about all WatchDog commands.
- Step 5** If you have an existing ISC installation with a database, you *must* back up your current database. See the instructions to back up and restore an ISC repository or create a standby system, as explained in [Appendix C, “Backup and Restore of ISC Repository and Standby System.”](#)

**Caution**

If you use the command line installer to install ISC in a directory containing an existing installation of ISC, the installer replaces the existing repository with a new empty repository. You are not asked to confirm this operation and no alternative option is given. The directory containing the existing repository is renamed to **Repository.save.<timestamp>**.

- Step 6** Execute the ISC product installation script, as follows:

```
cdrom> ./install.sh <target_dir> <owner>
```

where:

**<target\_dir>** Specify the location of the directory where you want to install ISC. If you are upgrading an existing ISC installation, see the options in this step.

**<owner>** Enter the username you created in [Step 2](#) of the “Initial Configuration—Creating the ISC Owner” section on page 2-2.

If you are upgrading an existing ISC installation, use *one* of the following options to specify the target directory:

- a. Install this version of ISC into the same directory as the existing ISC product.

For example, if you are upgrading from ISC 4.2 to ISC 5.0 and the existing ISC 4.2 installation is under the directory **/opt/isc-4.2**, then install ISC 5.0 in the same directory, with steps like the following:

- Save the ISC installation for possible uninstall purposes, as follows:

```
tar cvf isc-4.2.tar /opt/isc-4.2
```

- Execute the ISC product installation script, specifying the existing ISC directory name as the **<target\_dir>**.

```
cdrom> ./install.sh /opt/isc-4.2 <owner>
```

-or-

- b. Rename the existing ISC directory before installing this new version of ISC into this directory.

For example, if you are upgrading from ISC 4.2 to ISC 5.0 and the existing ISC 4.2 installation is under the directory **/opt/isc-4.2**, rename this directory to **/opt/isc-5.0** then install ISC 5.0 in the same directory, with steps like the following:

- Save the ISC 4.2 installation for possible uninstall purposes, as follows:

```
tar cvf isc-4.2.tar /opt/isc-4.2
```

- Rename the directory, as follows:

```
mv /opt/isc-4.2 /opt/isc-5.0
```

- Execute the ISC installation script, specifying the renamed directory name as the **<target\_dir>**.

```
cdrom> ./install.sh /opt/isc-5.0 <owner>
```

-or-

- c. Install ISC in a new directory.

For example, if you are upgrading from ISC 4.2 to ISC 5.0 and the existing ISC 4.2 installation is under the directory **/opt/isc-4.2**, then install ISC 5.0 in a new directory **/opt/isc-5.0**, with steps like the following:

- Save the ISC 4.2 installation for possible uninstall purposes, as follows:

```
tar cvf isc-4.2.tar /opt/isc-4.2
```

- Specify a new directory such as **/opt/isc-5.0** as the *<target\_dir>*

```
cdrom> ./install.sh /opt/isc-5.0 <owner>
```

**Step 7** If you upgraded from an existing ISC installation and want to retain the database from that installation, manually copy the database directory to the new installation before running the upgrade tool.

- a. The directory in which you installed this release contains a directory named Repository that contains an empty repository. Temporarily rename this directory before copying the old repository. For example, you might wish to rename this directory to **Repository.empty**, as follows:

```
mv $ISC_HOME/Repository $ISC_HOME/Repository.empty
```

- b. If you installed ISC in a directory that contains an existing version of ISC by following either option a. or b. in [Step 6](#), then the existing repository has been renamed to **\$ISC\_HOME/Repository.save.<timestamp>**. To restore the original database, enter the following:

```
mv $ISC_HOME/Repository.save.<timestamp> $ISC_HOME.Repository
```

- c. If you installed ISC in a new directory, as explained in option c. of [Step 6](#), copy the Repository directory and its contents from the old ISC installation directory to the new ISC installation directory. For example, if you are upgrading from ISC 4.2 to ISC 5.0, where the old installation directory is **/opt/isc-4.2** and the new installation directory is **/opt/isc-5.0**, enter the following:

```
cp -R /opt/isc-4.2/Repository /opt/isc-5.0/Repository
```

**Step 8** If you have upgraded a previous ISC installation and want to retain the database from this installation, you *must* run the upgrade tool. Run the upgrade tool as explained in the [“Upgrading ISC Repositories to ISC 5.0”](#) section on page 2-24.

## Configuring HTTPS

To configure the secure web access to ISC, set up the Hypertext Transfer Protocol (HTTP) Over Secure Socket Layer (SSL) (HTTPS) port, as follows:



### Note

If you configure HTTPS, it does not disable HTTP. If you want to only allow HTTPS, then you need to block HTTP (default port: 8030) by a firewall.

**Step 1** Source the environment file, as follows:

For K shell: **. \$ISC\_HOME/bin/vpnenv.sh**

For C shell: **source \$ISC\_HOME/bin/vpnenv.csh**

- Step 2** Run the command: **configSecurePort.sh** *<isc\_home>* *<https\_port>* *<hostname>*  
 where:  
*<isc\_home>* is the home directory for ISC, for example: **/opt/isc-5.0**  
*<https\_port>* is the secure HTTPS port you want to use, for example: **8443**.  
*<hostname>* is the name of the machine that ISC is installed on, for example: **machinename.cisco.com**
- Step 3** Copy the certificate **server.cer** from \$ISC\_HOME to all client ISC machines. Configure the browser on your client to store this certificate as trusted. For information on how to do this, see your browser documentation.

**Note**

If you specify an IP address instead of a hostname, you must then use this IP address for all HTTPS sessions. If you attempt to use the hostname after configuring with an IP address, you will receive hostname mismatch warnings and might see unexpected behavior while using ISC.

**Note**

If you do not implement [Step 3](#) correctly, your browser might warn you that it is unable to verify or trust the security of the ISC server. Always accept ISC's digital certificates when prompted. Additional security precautions might be generated by your browser but should not affect the performance of ISC.

## Logging In for the First Time

To log in to ISC for the first time, follow these steps:

- Step 1** In your browser, enter the following URL:

**http://server:port/isc/**

**Note**

If you are using secure HTTPS access, as explained in the [“Installing ISC Using the Command Line Installer”](#) section on page 2-19, enter **https://server:port/isc/** instead.

See the [“Installing ISC Overview”](#) section on page 2-2 for information about setting the port number.

- Step 2** Enter the default administrative login name, **admin**, and password, **cisco**, then click **Login**.

This default user provides administrative access to ISC. You cannot delete this user.

- Step 3** We highly recommend you change the password for **admin** from **cisco** to something secure for you. To do this, click the **Administration** tab, then click **Security**, then click **Users**. Select the **admin** check box and then click **Edit**.

The window, as shown in [Figure 2-24](#), [“Changing the Password for Security Reasons”](#) appears.

- Step 4** Enter the **Security** and **Personal Information**, then click **Save**.

**Figure 2-24** Changing the Password for Security Reasons

Security	
User ID:	admin
New Password:	<input type="text"/>
Verify New Password:	<input type="text"/>
Permissions for Others:	<input checked="" type="checkbox"/> View <input checked="" type="checkbox"/> Edit <input type="checkbox"/> Delete
User Groups:	<input type="text"/> <input type="button" value="Edit"/>
Assigned Roles:	SysAdminRole <input type="button" value="Edit"/>
Personal Information	
Full Name*:	<input type="text"/> System Administrator
Work Phone:	<input type="text"/>
Mobile Phone:	<input type="text"/>
Pager:	<input type="text"/>
Email:	<input type="text"/>
Location:	<input type="text"/>
Supervisor Information:	<input type="text"/>
User Preferences	
Language:	English
Rows per page:	10
Logging Level:	Warning
Initial Screen:	Home
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

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## Installing License Keys

To install license keys, do the following:



### Note

For detailed instructions, see the Licensing section in the [Cisco IP Solution Center Infrastructure Reference, 5.0](#).

- Step 1** From the **Home** page of the installed ISC product, navigate as follows: **Administration > Control Center >** from the **TOC**, click **Licensing**.
- Step 2** From the **Installed Licenses** table, click **Install**.
- Step 3** In the resulting window, enter a **License Key** that you received on your *Right to Use* paperwork with your product.

- Step 4** Click **Save**. Your newly installed license appears in an updated version of the Installed Licenses table.
- Step 5** Repeat [Step 2](#), [Step 3](#), and [Step 4](#) for each of the *Right to Use* documents shipped with your product.
- 

## Upgrading ISC Repositories to ISC 5.0

If you have an existing ISC repository, you *must* upgrade it to be able to use it with ISC 5.0, as follows:



### Note

Understand that the only Sybase version to which you can upgrade is the embedded Sybase ASA, 8.0.1. Also, understand that Oracle testing of ISC 5.0 has been done with Oracle Database 10g, Enterprise Edition Release 10.2.0.1.0 - 64 bit Production. If you would like to use another version of Oracle 10g, see Oracle's compatibility information.

- If you have an existing ISC 3.0 or 3.1 repository, you *must* contact [isc-mktg@cisco.com](mailto:isc-mktg@cisco.com) for upgrade instructions.



### Note

There is no direct way to upgrade from ISC 3.0 or ISC 3.1 to ISC 5.0. To upgrade from ISC 3.0 or ISC 3.1 to ISC 5.0, you *must* contact ISC Marketing, e-mail: [isc-mktg@cisco.com](mailto:isc-mktg@cisco.com). Then, proceed to [Step 39](#).

- If you have an existing ISC 3.2.0.x repository, you *must* upgrade to ISC 3.2.2 before using the instructions in the “[Upgrading ISC 3.2.2 or Later Repositories to ISC 5.0](#)” section on [page 2-24](#). To upgrade to ISC 3.2.2, you must choose the appropriate upgrade script for your Sybase or Oracle Repository and follow the instructions located at <http://www.cisco.com/cgi-bin/tablebuild.pl/isc>.
- If you have an existing ISC 3.2.2 or later repository, you must upgrade it to be able to use it with ISC 5.0, as explained in the “[Upgrading ISC 3.2.2 or Later Repositories to ISC 5.0](#)” section on [page 2-24](#).

## Upgrading ISC 3.2.2 or Later Repositories to ISC 5.0

If you have an ISC 3.2.2 or later Repository, you use the same upgrade procedure steps independent of whether your repository is a Sybase or Oracle repository.



### Note

Before you upgrade your Repository, you *must* have followed the steps in the “[Installing ISC Overview](#)” section on [page 2-2](#). You *must* have backed up your database, as explained in [Step 4](#), and you *must* have followed all the steps and reached this section from [Step 38](#). A Repository can be upgraded only once. If there is any problem during upgrade, a new copy of the backed up Repository is needed for subsequent upgrade attempts.



### Note

See [Appendix C](#), “[Backup and Restore of ISC Repository and Standby System](#),” before upgrading your repository.



Upgrade your ISC 3.2.2 or later repository as follows:

- 
- Step 1** Get the upgrade package **ISC50\_UpgradeTool.tar.gz** from <http://www.cisco.com/cgi-bin/tablebuild.pl/isc> and place it on the ISC Master machine in a directory where you can access the ISC environment.
- Step 2** Untar the upgrade tool tar file.  
`gzip -d < ISC50_UpgradeTool.tar.gz | tar xvf -`
- Step 3** Source the ISC environment files.  
 If **sh** or **ksh** shell: `.$ISC_HOME/bin/vpnenv.sh`  
 If **csh** shell: `source $ISC_HOME/bin/vpnenv.csh`
- Step 4** Stop ISC.  
`stopall`
- Step 5** Run the upgrade script.  
`cd ISC50_UpgradeTool`  
`./upgradeISCSchema.sh <ISC home>`  
 where: *<ISC home>* is the full pathname of the ISC home directory.
- Step 6** Check for a success or error message.
- 



**Note**

After upgrading between ISC versions, you should ensure that the cache of the ISC client browser has been cleared or that your browser does not use the cache. This will ensure the latest ISC images and pages are returned.

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## Launching Topology Tool

ISC provides a downloadable version of Version 1.4.2\_04 of Java Runtime Environment (JRE) for various operating systems when you launch Topology Tool. If you choose to install JRE Version 1.4.2\_04, you must quit the browser, uninstall the existing JRE version, install the new 1.4.2\_04 version, and log in again.

Specific instructions to launch the Topology Tool are explained in the [Cisco IP Solution Center Infrastructure Reference, 5.0](#).

## Uninstalling ISC

To uninstall the server, as follows:

- 
- Step 1** Log in to the server.
- Step 2** At the Solaris prompt, log in as the ISC owner.
- Step 3** Go to the ISC installation directory.

**Step 4** Source the environment, as follows:

For a sh or ksh shell:

```
. bin/vpnenv.sh
```

For a csh shell:

```
source bin/vpnenv.csh
```

**Step 5** Remove ISC by entering the following command from a location outside the *<ISC\_HOME directory>*:

```
uninstall.sh
```

This command removes all files from the installation directory. This command also removes the database and its contents. Database backups are not removed if they reside in a different directory from the installation directory.

---