

CiscoWorks CD Installation Instructions

The following instructions describe installing the CiscoWorks CD-ROM from either a local or a remote machine. Included are procedures for installing CiscoWorks on SunOS, Solaris, and HP-UX (Versions 9.x and 10.x).

Note Perform all tasks as the superuser. If this is an upgrade from CiscoWorks 3.0, refer to “Installing from a Remote CD-ROM Drive on SunOS, HP-UX 9.x and HP-UX 10.x” in the *CiscoWorks Installation and Reference Guide* before proceeding.

Installing from a Local CD-ROM

To install the CD-ROM from a local CD-ROM drive, perform the following steps:

- 1 Log in as the superuser by entering **su** and the root password.
- 2 Create a */cdrom* directory, if one does not exist, by entering the following command:

```
# mkdir /cdrom
```

If the */cdrom* directory already exists, proceed to the next step.

- 3 Place the CD-ROM in its caddy and insert it into the CD-ROM drive.
- 4 To mount the CD-ROM, enter the following command:

On SunOS:

```
# /etc/mount -rt hsf s /dev/device_name /cdrom
```

On HP-UX:

```
# /etc/mount -rt cdfs /dev/device_name /cdrom
```

where *-r* mounts the CD-ROM in read-only mode, *-t* indicates the type of file system, and *hsfs* specifies a file system with an ISO 9660 standard or High Sierra standard with Rock Ridge extensions and a *CDFS* file system. *device_name* is the device that you mount, usually *sr0* on SunOS, *dsk/c201d5s0* on HP-UX 9.x, or *dsk/c0t3d0* on HP-UX 10.x. If you do not use these options, media error messages may display on the console.

On Solaris:

The CD is automatically mounted onto the */cdrom* directory. If you are running File Manager, a separate File Manager window displays

the contents of the CD-ROM. If the */cdrom* directory is empty because the CD was not mounted, or if File Manager did not open a window displaying the contents of the CD-ROM, check if the *vold* daemon is running by entering the following command:

```
# ps -e | grep vold | grep -v grep
```

If the system does not display anything, enter the following command:

```
# /usr/sbin/vold &
```

The *vold* daemon manages the CD-ROM device and performs the mounting.

Proceed to the appropriate section to perform your installation.

Installing from a Remote CD-ROM

To install the CD-ROM from a remote CD-ROM drive, perform the following steps on the *remote* machine:

- 1 Log in as the superuser by entering **su** and the root password.
- 2 Create a */cdrom* directory, if one does not exist, by entering the following command:

```
# mkdir /cdrom
```

If the */cdrom* directory already exists, proceed to the next step.

- 3 Place the CD-ROM in its caddy and insert it into the CD-ROM drive.
- 4 Use a text editor to create an */etc/exports* file on SunOS and HP-UX or an */etc/dfs/dfstab* file on Solaris, if one does not exist.
- 5 Add the following line to the */etc/exports* file on SunOS and HP-UX:

```
/cdrom -ro
```

Add the following line to the */etc/dfs/dfstab* file on Solaris:

```
share -F nfs -o ro /cdrom
```

- 6 Ensure that your workstation is enabled as an NFS server.

On SunOS, check NFS server status with the following command. Both *nfsd* and *rpc.mountd* daemons must be running for a workstation to be an NFS server.

```
# ps -ax | grep nfsd | grep -v grep
```

If no *nfsd* daemons are running, start some with the following command:

```
# nfsd 8 &
```

Check *rpc.mountd* daemon status with the following command:

HP-UX

```
# ps -ax | grep rpc.mountd | grep -v grep
```

For HP-UX 9.x only:

If no *rpc.mountd* daemon is running, start one with the following command:

```
# /usr/etc/rpc.mountd -n
```

On Solaris, check NFS server status with the following command:

```
# ps -ef | grep nfs | grep -v grep
```

If your machine is enabled as an NFS server, the following daemons should be running: */usr/lib/nfs/nfsd* and */usr/lib/nfs/mountd*.

If these daemons are not running, enable your machine as an NFS server with the following command:

HP-UX 9.x:

```
# /etc/nfs.server start
```

HP-UX 10.x:

```
# /sbin/init.d/nfs.server start
```

- 7 To mount the CD-ROM, enter the following command:

On SunOS:

```
# /etc/mount -rt hsf s /dev/device_name /cdrom
```

On HP-UX 9.x:

```
# /etc/mount -rt cdfs /dev/device_name /cdrom
```

On HP-UX 10.x:

```
# /etc/usr/sbin/mount -rt cdfs /dev/device_name  
/cdrom
```

where *-r* mounts the CD-ROM in read-only mode, *-t* indicates the type of file system, and *hsfs* specifies a file system with an ISO 9660 standard or High Sierra standard with Rock Ridge extensions and a *CDFS* file system. *device_name* is the device that you mount, usually *sr0* on SunOS, *dsk/c201d5s0* on HP-UX 9.x, or *dsk/c0t3d0* on

HP-UX 10.x. If you do not use these options, media error messages may display on the console.

On Solaris:

The CD is automatically mounted onto the */cdrom* directory. If you are running File Manager, a separate File Manager window displays the contents of the CD-ROM. If the */cdrom* directory is empty because the CD was not mounted, or if File Manager did not open a window displaying the contents of the CD-ROM, check if the *vold* daemon is running by entering the following command:

```
# ps -e | grep vold | grep -v grep
```

If the system does not display anything, enter the following command:

```
# /usr/sbin/vold &
```

The *vold* daemon manages the CD-ROM device and performs the mounting.

8 Run **exportfs -a** with the following command on SunOS and HP-UX:

```
# exportfs -a
```

On Solaris and HP-UX 10.x, do not invoke the **exportfs** command.
The **nfs.server start** command is already sharing the CD-ROM drive.

9 Go to the *local* machine.

10 Become the superuser by entering **su** and the root password.

11 Create a */cdrom* directory, if one does not already exist, by entering the following command:

```
# mkdir /cdrom
```

12 To mount the CD-ROM, enter the following command:

On SunOS and HP-UX 9.x:

```
# /etc/mount remote_machinename:/cdrom /cdrom
```

On Solaris and HP-UX 10.x:

```
# /usr/sbin/mount remote_machinename:/cdrom /cdrom
```

13 a. On SunOS and HP-UX 9.x, if you are installing CiscoWorks for the first time, create a directory for the CiscoWorks files with the following command:

```
# mkdir /usr/nms
```


If you already have a version of CiscoWorks installed in the directory */usr/nms* on your system, and you want to save it, enter the following commands:

```
# mv /usr/nms /usr/nms.save
# mkdir /usr/nms
```

The installation process overwrites the contents of the existing */usr/nms* directory.

b. On Solaris, it is not necessary to create the directory for the CiscoWorks files. By default, CiscoWorks is installed in the following directories:

<i>/opt/CSCOcws</i>	Sun NetManager version
<i>/opt/CSCOcwh</i>	HP OpenView version
<i>/opt/CSCOsyl</i>	All Sybase modules

c. HP-UX 10.x, it is not necessary to create the directory for the CiscoWorks files. By default, CiscoWorks is installed in the following directories:

<i>/opt/CSCOcwh</i>	HP OpenView version
<i>/opt/CSCOsyl</i>	All Sybase modules

Proceed to “Installing on SunOS,” “Installing on Solaris,” “Installing on HP-UX 9.x 9.x,” or “Installing on HP-UX 10.x.”

Installing on SunOS

To install the CiscoWorks files on a SunOS platform, perform the following steps:

- 1 Extract the files from the CD-ROM by entering the following commands:

```
# cd /cdrom/CISCOWORKS/SunOS4.1.3
# ./extract_unbundled
```

Make sure you include the ./ in the **extract_unbundled** command to ensure that you run the correct version of this command.

- 2 Answer the system prompt questions.
- 3 Reboot your system, if you were prompted whether you wanted automatic kernel modification and you answered Yes. Rebooting ensures that the new kernel is used when you by enter the following command:

```
# reboot
```

If you were prompted whether you wanted automatic kernel modification and you answered No, you must manually update the kernel before rebooting by performing the steps in the “Sybase Modifications to the Kernel Configuration File” section in your *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX*.

- 4 Log into your system as the superuser after your computer reboots.

```
login: root  
password: rootpassword  
#
```

- 5 Complete configuration of CiscoWorks with the following command:

```
# /usr/tmp/unbundled/cwconfigure
```

Answer the system prompt questions.

- 6 To unmount and eject the CD-ROM from your local machine, enter the following commands:

```
# cd /  
# umount /cdrom  
# eject sr0
```

The CD-ROM caddy is ejected from the drive. Remove the CD-ROM from the caddy and store it in a safe place. Skip to Step 9.

- 7 To unmount and eject the CD-ROM from a remote machine, enter the following commands from your local machine:

```
# cd /  
# umount /cdrom
```

- 8 Log into the remote machine as root and enter the following commands:

```
# cd /  
# umount /cdrom  
# eject sr0
```

The CD-ROM caddy is ejected from the drive. Remove the CD-ROM from the caddy and store it in a safe place.

- 9 See *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX* for installation verification procedures and customizing information.

Installing on Solaris

The installation process on Solaris requires you to install the CiscoWorks packages, modify the kernel configuration file, and run the configuration scripts.

To install CiscoWorks on a Solaris 2.4 platform, perform the following steps:

- 1 Extract the files from the CD-ROM by entering the following command:

pkgadd -d /cdrom/CISCOWORKS/Solaris2.4 all
- 2 Answer Yes each time **pkgadd** prompts whether you want to install a package.
- 3 Reboot your system, if you were prompted whether you wanted automatic kernel modification and you answered Yes.

Rebooting ensures that the new kernel is used. Enter the following command:

```
# reboot
```

If you were prompted whether you wanted automatic kernel modification and you answered No, you must manually update the kernel before rebooting by performing the steps in the “Sybase Modifications to the Kernel Configuration File” section in your *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX*.

- 4 Log into your system as the superuser after your computer reboots.

```
login: root
password: rootpassword
#
```

- 5 Begin the CiscoWorks configuration process by entering the following command:

```
# cd /opt/CSCOcwh/install
# ./cwconfigure
```

While the **cwconfigure** script runs, answer the questions it displays according to the information you entered on the CiscoWorks Configuration Worksheet in your *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX*.

- 6 To unmount and eject the CD-ROM, enter the following command:

```
# umount /cdrom
# eject cdrom
```

Remove the CD-ROM caddy from the drive and store it in a safe place. Skip to Step 9.

- 7 To unmount and eject the CD-ROM from a remote machine, enter the following commands from your local machine:

```
# cd /
# umount /cdrom
```

- 8 Log into the remote machine as root and enter the following commands:

```
# cd /
# umount /cdrom
# eject sr0
```

The CD-ROM caddy is ejected from the drive. Remove the CD-ROM from the caddy and store it in a safe place.

- 9 See *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX* for installation verification procedures and customizing information.

Installing on HP-UX 9.x

To install the CiscoWorks files on an HP-UX 9.x platform, perform the following steps:

- 1 Create the directory in which you will install CiscoWorks files:

```
# mkdir /usr/nms
```

Ensure you have enough disk space to load CiscoWorks.

- 2 Copy the installation and configuration scripts to the new CiscoWorks directory by entering the following command:

```
# /etc/update -s /cdrom/HPUX_9/cw.tar -d /usr/nms  
CWIC
```

where *-s* specifies where the CiscoWorks software is located on the CD-ROM, and *-d* indicates the destination where the scripts are stored. For example, if you enter the path name */usr/nms*, the scripts are stored in */usr/nms*.

- 3 Enter the **cwinstall** command to install the CiscoWorks software:

```
# cd /usr/nms/install/bin  
./cwinstall -s /cdrom/HPUX_9/cw.tar -d /usr/nms
```


If you do not enter any options, **cwinstall** prompts you for them.

The path name you enter after **-s** is the same as the source path name you entered in Step 2. **-d** specifies where the CiscoWorks software will be installed.

cwinstall command options include:

- s**—Source
- d**—Destination
- help**—Print the usage
- f filesets**—CiscoWorks software to install

where **-f** specifies the file sets that must be loaded. To install just CiscoWorks, specify **CISCO-WORKS**. To install CiscoWorks, Sybase, and HyperHelp, specify **CISCO-WORKS SYBASE HYPERHELP**. If you do not specify the **-f** option, **cwinstall** loads CiscoWorks, Sybase, and HyperHelp.

For detailed information on the **cwinstall** command, refer to the *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX*.

- 4 Verify that Sybase is running with the following command:

```
ps -ef |grep sybase
```

- 5 Run `$NMSROOT/sybase10/sybase/install/sybinit`.

Refer to *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX* for instructions on how to answer the prompts.

- 6 Verify the log file to check for errors.
- 7 Use the **isql** command to turn off database checkpoints in the databases indicated in the error log.

For more information, refer to *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX* for instructions on how to answer the prompts.

- 8 After installation of the CiscoWorks files, enter the following command to configure CiscoWorks:

```
# /usr/nms/install/bin/cwconfigure
```

Answer the system prompt questions. For detailed installation information, refer to the *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX*.

- 9 To unmount and eject the CD-ROM from your local machine, enter the following commands:

```
# cd /  
# umount /cdrom
```

Remove the CD-ROM from the caddy and store it in a safe place.
Skip to Step 12.

- 10** To unmount and eject the CD-ROM from a remote machine, enter the following commands from your local machine:

```
# cd /  
# umount /cdrom
```

- 11** Log into the remote machine and enter the following commands:

```
# cd /  
# umount /cdrom
```

Remove the CD-ROM from the caddy and store it in a safe place.

- 12** Refer to *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX* for installation verification procedures and customization information.

Installing on HP-UX 10.x

The installation process on HP-UX requires you to install the CiscoWorks packages, modify the kernel configuration file, and run the configuration scripts.

Before performing this procedure, refer to “Software Access Control on HP-UX 10.x Only” in the *CiscoWorks Installation and Reference Guide* or use the **man swacl** command.

To install CiscoWorks on an HP-UX 10.x platform, perform the following steps:

- 1 Extract the files from the CD-ROM by entering the following commands:

```
# cd /cdrom/HPUX_10
# ./cwinstall -s /cdrom/HPUX_10
```
- 2 Answer Yes each time **cwinstall** prompts whether you want to install a package.
- 3 Log into your system as the superuser after your computer reboots.

```
login: root
password: rootpassword
#
```

- 4 Begin the CiscoWorks configuration process by entering the following command:

```
# cd /opt/CSCOcwh/install  
# ./cwconfigure
```

While the **cwconfigure** script runs, answer the questions it displays according to the information you entered on the CiscoWorks Configuration Worksheet in your *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX*.

- 5 To unmount and eject the CD-ROM, enter the following command:

```
# umount /cdrom
```

Remove the CD-ROM caddy from the drive and store it in a safe place. Skip to Step 8.

- 6 To unmount the CD-ROM from a remote machine, enter the following commands from your local machine:

```
# cd /  
# umount /cdrom
```

- 7 Log into the remote machine as root and enter the following commands:

```
# cd /  
# umount /cdrom
```

Remove the CD-ROM caddy from the drive. Remove the CD-ROM from the caddy and store it in a safe place.

- 8 Refer to the *CiscoWorks Installation and Reference Guide on SunOS, Solaris, and HP-UX* for installation verification procedures and customizing information.

CD Contents

The CiscoWorks software is shipped on this CD-ROM.

Hardware and Software Requirements

For information on minimum and recommended requirements, refer to the *CiscoWorks Installation and Reference Guide on SunOS, Solaris and HP-UX*.

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