



Sun Control Station

Software Installation

Sun Microsystems, Inc.
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Installing the Sun™ Control Station 2.0 software

The Quick Start Guide details the system requirements for running the Sun™ Control Station 2.0 software on a server.

The guide also takes you through the process for installing the software on your server and installing the control-station agent on the hosts that you want to manage.

Note – For known issues, refer to the Release Notes on the Sun Control Station CD-ROM.

For the Release Notes and all other documentation, go to `/docs`.

Requirements

Supported Operating Systems

The Sun Control Station 2.0 software has been tested on the following operating systems (OSs).

- Red Hat Linux 7.3
- Red Hat Enterprise Linux 2.1 ES (Update 1 and Update 2)
- Red Hat Enterprise Linux 2.1 AS (Update 1 and Update 2)

IP Address

The server on which you install the Sun Control Station software must have a static IP address.

Required Packages

The following list of RPMs must be installed on the server before you install the Sun Control Station 2.0 software.

The Installer program verifies that the following RPMs are present. If any one of these RPMs is not found, the Installer program exits.

- perl-5.6.x
- perl-XML-Parser-2.x
- perl-DBI-1.x
- perl-DBD-MySQL-1.x
- apache-1.3.x
- openssh-3.1.x
- mysql-3.23.x
- mysql-server-3.23.x
- mysqlclient9-3.23.x

Server Hardware

Server dedicated solely to Sun Control Station

Sun strongly recommends that you run the Sun Control Station software on a server dedicated solely to running the software and storing packages files.

The Sun Control Station 2.0 software makes modifications to certain areas of your OS that can affect other programs that are running on the server.

If you uninstall the software, certain programs and directories are deleted. For more information, see “Uninstalling the Sun Control Station 2.0 Software” on page 13.

Recommended Server Configuration

Sun recommends the following server configuration for running the Sun Control Station 2.0 software.

- a 1 GHz or higher x86 processor
- 1 GB of RAM
- two 80GB hard disk drives (HDDs), in a RAID-1 (mirroring) setup
- at least 250 MB of free disk space in the directory `/usr`
- at least 1 GB of free disk space in the directory `/var`

If you want to create custom partitions on your HDD, create the directories `/var/mgmt` and `/var/tomcat4`, and allocate as much space as possible to these two directories.

Minimum Server Configuration

The server running the Sun Control Station 2.0 software should meet the following minimum configuration.

- a 600MHz x86 processor
- 512 MB of RAM
- one 40GB HDD
- at least 200 MB of free disk space in the directory `/usr`
- at least 250 MB of free disk space in the directory `/var`

Port Usage

The following ports must be free for the Sun Control Station to use:

- Port 80 is currently used by Apache; Health Monitor events come in to the control station over port 80.
- Port 8080 is currently used by tomcat4 for the browser-based user interface (UI).
- Port 8443 is currently used by tomcat4 for an ssl connection to the UI.
- Port 3306 is currently used by MySQL.

System Modifications

The Sun Control Station 2.0 software makes the following modifications to the OS:

- installs tomcat4 and uses that version
- creates a tomcat4 user and group
- takes over the Web server
- inserts several cron jobs
- starts MySQL
- adds several logrotate files in /var

Web Browsers

To manage the Sun Control Station from the browser-based UI, you must enable cookies, cascading style sheets and JavaScript™ on your browser (these features are normally enabled by default).

Tested Browsers

The Sun Control Station 2.0 software has been tested on the following combinations of Web browsers Java™ plug-ins and platforms.

Linux (Red Hat 7.3, Red Hat Enterprise Linux 2.1 ES)

- Browser: Mozilla™ 1.2.1
- Java plug-in: 1.4.1_01; 1.4.1_03

Microsoft Windows (NT 4.0)

- Browser: Internet Explorer 6.0
- Java Plug-in: 1.4.1_03

Solaris™ Operating System (8.0 and 9.0)

- Browser: Netscape™ 7.0
- Java plug-in: 1.4.1-b21

Compatible Browsers

The Sun Control Station 2.0 software should function properly on the following browsers:

- All platforms: Netscape 7.0; Mozilla 1.0.1 and higher
- Microsoft Windows 98/NT/2000: Internet Explorer 5.2
- Mac OS X: Internet Explorer 6.0; Safari 1.0 (v85); Camino 0.7; Mozilla 1.3.1

Released product versions of the browsers are usually more reliable than beta versions, and later versions typically work the most reliably. A browser program failure, although annoying, does not adversely affect your data on a Sun Control Station.

Installing the Sun Control Station 2.0 Software

Installation from the CD

If the server on which you are installing the software has a CD-ROM drive, insert the Sun Control Station 2.0 Software Install CD into the drive.

To install the Sun Control Station 2.0 software from the CD:

1. Become the root user.

```
su -
```

2. Mount the CD.

If the following line is in your system `fstab` file:

```
/dev/cdrom /cd iso9660 ro,user,noauto,unhide
```

You can mount the CD with one of the two following commands:

```
mount /dev/cdrom
```

or

```
mount /cd
```

3. Move to the directory <cd_mount>.

```
cd <cd_mount>
```

4. Run the installation script.

```
/bin/sh ./install/install
```

The following message appears:

```
The software is now ready to install. Continue? Y / N
```

Enter **Y** on your keyboard to proceed with the installation.

The Installer program now performs a number of validations, such as:

- Info: Validating OS
- Info: Validating architecture
- Info: Validating version of Perl installed
- Info: Validating version of Apache installed
- Info: Validating version of MySQL installed
- Info: Validating version of OpenSSH installed
- Info: Checking to see if Tomcat is installed
- Info: Checking to see if Java is installed

A number of information and installation messages appear on the screen as the installation proceeds.

Once the installation is complete, the system displays a message stating so.

Post-Install Issues

You may experience some problems once the installation is complete.

If you are unable to access the UI through a browser window, `tomcat4` may not have started on the server.

A. Restart `tomcat4`

1. **ssh in to the Sun Control Station server.**

2. **Become the root user.**

```
su -
```

3. **Stop `tomcat4`.**

```
/etc/init.d/tomcat4 stop
```

4. Start tomcat4.

```
/etc/init.d/tomcat4 start
```

5. Verify that several java processes are now running.

```
/bin/ps -et | grep java
```

If there are no java processes running, try Steps B and C.

B. Check permissions for the file catalina.out

If the UI still does not appear, check the permissions on the file `/var/tomcat4/logs/catalina.out`.

The owner and group of the file should both be `tomcat4`. If they are not `tomcat4`, you need to set them as such.

1. ssh in to the Sun Control Station server.

2. Become the root user.

```
su -
```

3. Change the ownership of the file:

```
chown tomcat4:tomcat4 /var/tomcat4/logs/catalina.out
```

4. Stop tomcat4.

```
/etc/init.d/tomcat4 stop
```

5. Start tomcat4.

```
/etc/init.d/tomcat4 start
```

C. Check whether file `/var/lock/subsys/tomcat4` exists

You can also verify whether the file `/var/lock/subsys/tomcat4` exists.

If this file does exist, remove it and then kill any currently running java processes.

Now stop and start `tomcat4` again.

Installing the Sun Control Station Agent

Note – The package files for the different agents are also found in the directory `/var/tomcat4/web/pkgs` on the Sun Control Station server.

Agent for Linux-based hosts

You can manually load the package file for the agent on to a Linux-based host that you want to manage, or you can automatically load it from a URL.

On the control station, the agent file for a Linux-based host is found in the following location:

```
/var/tomcat4/web/pkgs/base-mgmt-agent-1.1-16.i386.rpm
```

or

```
http://<host_name_of_SCS_server>/pkgs/base-mgmt-agent-1.1-16.i386.rpm
```

To load the agent manually, download the RPM to the system and then run the command:

```
rpm -ivh base-mgmt-agent-1.1-16.i386.rpm
```

To load the agent automatically, run the command:

```
rpm -ivh http://<host_name_of_SCS_server>/pkgs/base-mgmt-agent-1.1-16.i386.rpm
```

Agent for Solaris-based hosts

You must manually load the package file for the agent on to a Solaris-based host that you want to manage.

On the control station, the file for a Solaris-based host is found in the following location:

```
/var/tomcat4/web/pkgs/base-mgmt-agent-1.1-16.sparc.pkg.Z
```

or

```
http://<host_name_of_SCS_server>/pkgs/base-mgmt-agent-1.1-15.s6arc.pkg.Z
```

To load the agent, you must download the package to the system, uncompress the file and then add the package file. This last command loads the package into the correct directory on a Solaris-based host.

```
uncompress base-mgmt-agent-1.1-16.sparc.pkg.Z
pkgadd -d base-mgmt-agent-1.1-16.sparc.pkg
```

Agent on a host running Sun Linux 5.0.x

The Sun Linux 5.0.x operating system (OS) contains the control-station agent but the agent is disabled by default.

To enable the agent on a host running Sun Linux 5.0.x:

1. **ssh to the host or use the serial console port and log in as *root*.**
2. **From the command line, execute the following command.**

```
/sbin/chkconfig init.agent on
```

This command ensures that the agent remains enabled if the host is rebooted.

3. **From the command line, execute the following command.**

```
/etc/rc.d/init.d/init.agent start
```

The Sun Control Station agent is now enabled on the host running Sun Linux 5.0.x.

Sun Control Station User Interface

Once you have installed the Sun Control Station software on a server, you can access the features through a browser-based user interface (UI).

To access the Sun Control Station UI:

1. Open a browser window and enter the following URL.

`http://<IP_address_of_server>`

Note – If you do not want to use the SSL connection, enter the following URL instead: `http://<IP_address_of_server>:8080/sdui/`

The Login page appears; see FIGURE 1.

2. Enter the user name *admin* and the password *admin*.

Note – Sun recommends that, once you log in, you change the `admin` password as soon as convenient. See the section “Password” in Chapter 2 of the *Administrator Manual*.

3. Click Login.

The main splash page of the Sun Control Station 2.0 software appears; see FIGURE 2.

You can change the `admin` password under the Station Settings menu item. For more information, see Chapter 2 of the PDF *Administrator Manual*.

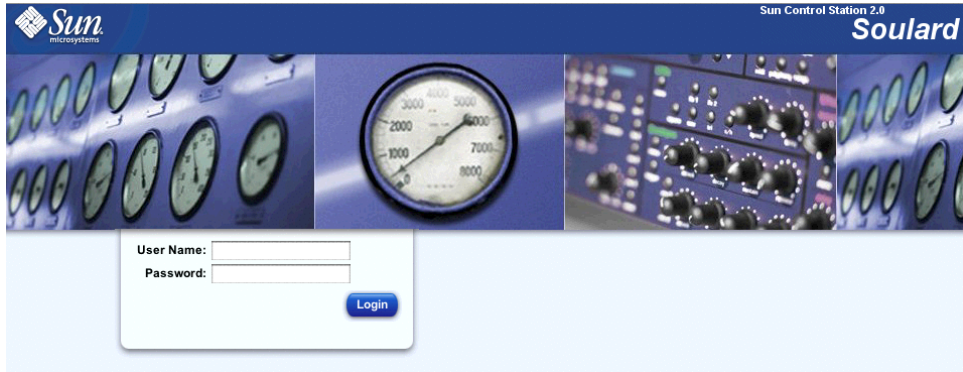


FIGURE 1 Sun Control Station login page



FIGURE 2 Main splash page

Uninstalling the Sun Control Station 2.0 Software

Uninstalling the Sun Control Station 2.0 software removes all of the server-side components of the software from your server, as well as all of the control modules.

Note – The uninstall program does not remove the agent(s) or any client-side components of the software or control modules.

Note – When you uninstall Sun Control Station 2.0 software, the uninstall program asks whether you also want to remove `tomcat` and `jdk` from your server.

To uninstall the Sun Control Station 2.0 software:

1. Become the root user.

```
su root
```

2. Move to the uninstall directory.

```
cd /usr/mgmt/uninstall
```

3. Run the uninstall script.

```
./uninstall
```

4. The system asks you to confirm that you want to proceed with the uninstall process. The default is N (no).

Enter Y.

5. In separate steps, whether you also want to remove `tomcat` and `jdk`. The default for each of these prompts is Y (yes).

Enter Y or N for each prompt.

If you enter Y (or accept the default value), the rpm or package for that component is removed.

If you enter N, the rpm or package for that component is left intact.

6. The uninstall operation proceeds.

Uninstalling the Sun Control Station Agent

Uninstalling the Sun Control Station agent from a managed host removes the agent itself and any client-side components of the modules that are installed on the host.

Caution – This command does not ask you to confirm the uninstall operation once you run the command.

To uninstall the Sun Control Station agent:

1. **ssh in to the managed host.**
2. **Become the root user.**
`su root`
3. **Move to the uninstall directory.**
`cd /usr/mgmt/libexec`
4. **Run the uninstall script.**
`./agentcleanup.sh`
5. **The uninstall operation proceeds.**

Documentation



You can access the user manuals in PDF format from the UI. If you have installed third-party software on the Sun Control Station, the relevant documentation is also available.

To access the PDF file for a user manual, click on the help icon in the top-right corner. A separate browser window opens displaying a list of PDF files available. Click the link for a PDF file; you can open the PDF file in the browser window or save it to your personal computer.

Status Colors

In the UI, the status of each service or hardware component is indicated by a colored circle and icon—grey with dotted line, green with checkmark, yellow with exclamation mark or red with X mark—beside each item. The colors have the following significance:



Grey with dotted line—No information is available, or the service or the monitoring feature is not enabled on the host.



Green with checkmark—The service or component is functioning normally.



Yellow with exclamation mark—There is moderate use on the host or a component is recovering.



Red with X—There is heavy use on the host or a failure.

