



# Quickstart: Installing and Setting Up Solaris Container Manager 3.6 With Sun Management Center

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# Contents

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<b>1</b>	<b>Installing and Setting Up Solaris Container Manager 3.6</b>	<b>5</b>
	Installing the Product	5
	Preinstallation Information	8
	Sun Management Center and Solaris Container Manager Requirements	10
	Installing the Required JDK Version	12
	▼ To Install the Required JDK Version	12
	Installing Solaris Container Manager 3.6 With Sun Management Center	13
	▼ To Install Solaris Container Manager 3.6 With Sun Management Center	13
	Setting Up Solaris Container Manager 3.6 With Sun Management Center	16
	▼ To Set Up Solaris Container Manager 3.6 With Sun Management Center	16
	Launching Solaris Container Manager	20
	▼ To Launch the Container Manager GUI	20
	▼ To Restart Java Web Console	22
	Solaris Container Manager 3.6 Documentation Resources	22
	<b>Index</b>	<b>25</b>



# Installing and Setting Up Solaris Container Manager 3.6

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This chapter describes how to install Solaris™ Container Manager 3.6. This chapter assumes that the product has not been installed before.

This chapter has the following topics:

- “Installing the Product” on page 5
- “Preinstallation Information” on page 8
- “Sun Management Center and Solaris Container Manager Requirements” on page 10
- “Installing the Required JDK Version” on page 12
- “Installing Solaris Container Manager 3.6 With Sun Management Center” on page 13
- “Setting Up Solaris Container Manager 3.6 With Sun Management Center” on page 16
- “Launching Solaris Container Manager” on page 20
- “Solaris Container Manager 3.6 Documentation Resources” on page 22

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## Installing the Product

Solaris Container Manager 3.6 is an add-on product to the Sun™ Management Center 3.6 release. Sun Management Center is the base software or framework on which Solaris Container Manager works.

Sun Management Center has three main components, called *base layers*, that need to be installed: server, agent, and Java™ Console. The server is a collection of processes on a central host that enables management services. The agent is a process that runs on each monitored host. The Java Console is the window through which you monitor and manage the agents. The Java Console is the main user interface to the Sun Management Center product, but is not required for Solaris Container Manager.

Before you can use Solaris Container Manager, you must install Sun Management Center 3.6 on the following layers:

- Server – On at least one machine.

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**Note** – When the server is installed, the Sun Management Center agent is installed on the server machine as well.

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- Agent – On any machine you want to monitor.
- Java Console – On any machine from which users log in to Sun Management Center. This layer is optional. However, if you want to manage alarms, you must install the Java Console.

The Solaris Container Manager add-on needs to be installed on the following:

- The Sun Management Center agents, which are monitored by the Sun Management Center server.
- The Sun Management Center server.

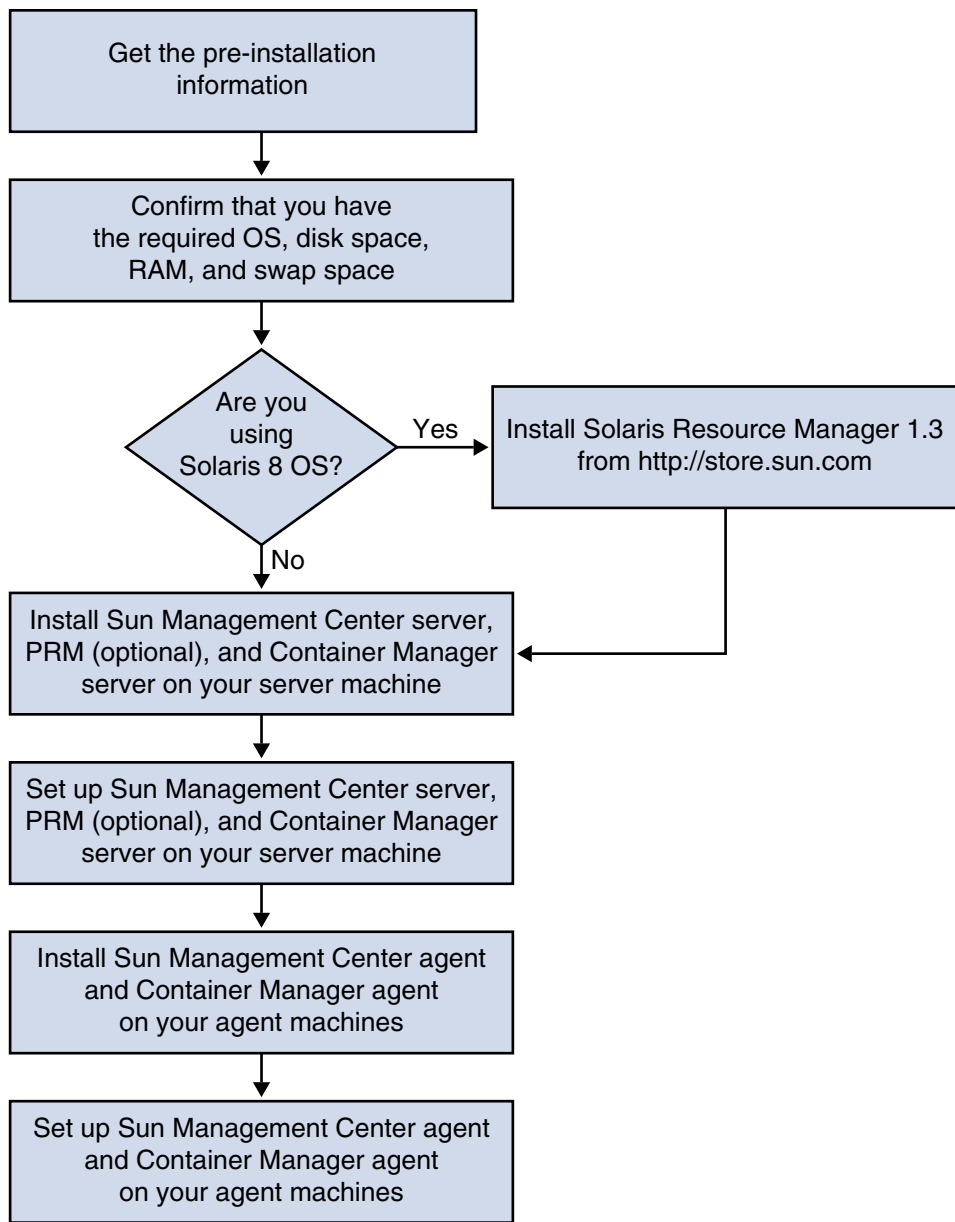
The user interface for Solaris Container Manager is based on the browser interface called the Java Web Console, which is shipped with Sun Management Center. Do not confuse the Java Web Console that is used by Solaris Container Manager with the Java Console layer of Sun Management Center.

In planning your installation, you need to consider the following issues:

- On which machine do you want to run the Sun Management Center server?
- In addition to the Solaris Container Manager 3.6 add-on, you might also want to install the Performance Reporting Manager add-on. The Performance Reporting Manager add-on enables you to create reports detailing the status of your machines. If this add-on is not installed, the resource utilization graphs of Solaris Container Manager will not be available.

In addition to *installing* the product components and the add-ons, you must *set up* the product components and add-ons before you can start the product.

The following flowchart depicts the stages required to install and set up Solaris Container Manager.



**FIGURE 1-1** Stages in Installation

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# Preinstallation Information

The following table lists the prerequisite information that you need before installing the product.

**TABLE 1-1** Information Needed Before Installing

Installation Item	Description
Environment	Choose the <i>production</i> environment.
Base Layers (Components)	Determine the machines on which you install each component, for example, server, agent, and console.
Languages	Determine which, if any, additional languages (French, Traditional Chinese, Simplified Chinese, Korean, or Japanese) you want.  The documentation for Solaris Container Manager 3.6 is <i>not</i> available on the media. Go to <a href="http://docs.sun.com">http://docs.sun.com</a> for documentation in English and the supported languages.
Add-on Products	Review the add-on supplements to determine which add-ons you want to install. For a list of add-on supplements, see Chapter 2, "Installation Overview," in <i>Sun Management Center 3.6 Installation and Configuration Guide</i> .  Add-on products are installed on the same machine as the server and agent.
Space Needed	If the machine does not have enough space in the default <code>/opt</code> directory, you might need to perform one of the following adjustments: <ul style="list-style-type: none"><li>■ Specify an alternate file system that has sufficient space</li><li>■ Select a machine with sufficient resources</li><li>■ Create more space in <code>/opt</code></li></ul>
Permissions	You must have permission to write to the <code>/var/opt</code> and <code>/opt/SUNWsymon</code> directories as <code>root</code> on each machine. You also need privileges to run commands such as <code>chmod</code> .

After installing the product and its add-ons, you need to set up the product and its add-ons. The following table lists the prerequisite information that you need before *setting up* the product.



**TABLE 1–2** Information Needed Before Setting Up

Setup Item	Description
Administrator user name	A valid user name for the Solaris Operating System (Solaris OS) is required for assignment as the Sun Management Center administrator on Sun Management Center server machines.
Network Addressing Mode	<p>Sun Management Center uses two types of addressing for communication between the server and agent: IP addressing, and Network Address Translation (NAT). You must have the following information:</p> <ul style="list-style-type: none"><li>■ Which addressing mode is used in your network</li><li>■ The name of each machine that is to be managed by Sun Management Center</li><li>■ The IP addresses and names for all machines that have been assigned static IP addresses</li></ul> <p>See Chapter 6, “Installing and Updating Agents and Installing on Microsoft Windows,” in <i>Sun Management Center 3.6 Installation and Configuration Guide</i> for further information.</p>
Sun Management Center Password to Generate Security Key	<p>Sun Management Center requires an encrypted security key for communication between processes. The security key is generated, based on a unique password you provide.</p> <p>Store the password securely. You need the password if you modify your Sun Management Center installation.</p>
SNMPv1 Community String	<p>Sun Management Center requires an SNMPv1 community string for security. The default is <code>public</code>. You have the option of specifying a more secure custom string.</p> <p>Store the SNMPv1 string securely. You need the SNMPv1 security string if you modify your Sun Management Center installation.</p>
Information to Generate Web Server Security Key	<p>The Sun Management Center Web server requires an encrypted security key. The security key is generated, based on your organization name and location.</p> <p>Store the organization name and location securely. You need this information if you modify your Sun Management Center Web server.</p>

**TABLE 1-2** Information Needed Before Setting Up (Continued)

Setup Item	Description
Ports	Determine the assignments for the following ports: <ul style="list-style-type: none"><li>■ SNMPv1 Port: default 161</li><li>■ Sun Management Center Port: default 161, recommended 1161</li><li>■ Database port: default 2521</li><li>■ Web server port: default 8080</li><li>■ Web server secure port: 8443</li></ul> See Chapter 6, "Installing and Updating Agents and Installing on Microsoft Windows," in <i>Sun Management Center 3.6 Installation and Configuration Guide</i> for further information.

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## Sun Management Center and Solaris Container Manager Requirements

The following table provides a summary of Sun Management Center and Solaris Container Manager requirements.

For specific information about determining the total amount of resources needed, see Appendix C, "Determining Hardware Resources," in *Sun Management Center 3.6 Installation and Configuration Guide*.

**TABLE 1-3** Sun Management Center and Solaris Container Manager System Requirements

Base Layer	Operating System	Disk Space	RAM	Swap Space
Sun Management Center Server (SPARC)	Solaris 8, Solaris 9, and Solaris 10	800 Mbytes total 300 Mbytes in /opt	512 Mbytes minimum	1 Gbyte recommended
	Solaris Developer Software Group installation	500 Mbytes in /var/opt	1 Gbyte recommended for small to large servers 2 Gbytes recommended for extra-large servers	

**TABLE 1-3** Sun Management Center and Solaris Container Manager System Requirements *(Continued)*

Base Layer	Operating System	Disk Space	RAM	Swap Space
Sun Management Center Agent (SPARC)	Solaris 8, Solaris 9, and Solaris 10	18 Mbytes per agent in /opt/SUNWsymon 2 Mbytes per agent in /var/opt/SUNWsymon	10 to 29 Mbytes per agent depending on modules loaded and system type	
Sun Management Center Agent (x86)	Solaris 9 and Solaris 10	18 Mbytes per agent in /opt/SUNWsymon 2 Mbytes per agent in /var/opt/SUNWsymon	10 to 29 Mbytes per agent depending on modules loaded and system type	
Solaris Container Manager Server (SPARC)	Solaris 8, Solaris 9, and Solaris 10	300 Mbytes	512 Mbytes minimum 1 Gbyte recommended for small to large servers 2 Gbytes recommended for extra-large servers	1 Gbyte recommended
Solaris Container Manager Agent (SPARC and x86)	Solaris 9, and Solaris 10. Share memory is supported from Solaris 9 Update 5.	18 Mbytes per agent in /opt/SUNWsymon 2 Mbytes per agent in /var/opt/SUNWsymon	10 to 29 Mbytes per agent depending on modules loaded and system type	
Performance Reporting Manager Server (SPARC)	Solaris 8, Solaris 9, and Solaris 10	Depends on reporting options selected. ■ Small configuration: 5 Gbytes ■ Medium configuration: 12 Gbytes ■ Large configuration: 24 Gbytes	1 Gbyte	1 Gbyte recommended

**TABLE 1-3** Sun Management Center and Solaris Container Manager System Requirements *(Continued)*

Base Layer	Operating System	Disk Space	RAM	Swap Space
Performance Reporting Agent (SPARC and x86)	Solaris 9, and Solaris 10	8000 Kbytes minimum 80 Mbytes needed for 1000 properties logged at five-minute intervals		

The default maximum heap size for the Sun Management Center console and the Sun Management Center server is 64 Mbytes each.

You can customize the maximum heap size for the console and server as described in Chapter 8, “Starting and Stopping Sun Management Center,” in *Sun Management Center 3.6 Installation and Configuration Guide*.

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## Installing the Required JDK Version

Sun Management Center 3.6 requires JDK™ 1.4.2, which is available on the `<DiskMountDir>/jdk_dir` directory, where `jdk_dir` is the name of the JDK directory on the CD.

### ▼ To Install the Required JDK Version

**Steps** 1. **Install the JDK from CD 1 of 2 using the `pkgadd` command.**

Type the command `pkgadd -d <DiskMountDir>/jdk_dir/Solaris`.

Press Return to install all of the packages. The JDK packages are installed in the `/usr/j2se` directory.

2. **Reset the `JAVA_HOME` environment variable to `/usr/j2se`.**

- In a C shell environment, type:

```
# setenv JAVA_HOME /usr/j2se
```

- In a Bourne or Korn shell environment, type:

```
# JAVA_HOME=/usr/j2se  
# export JAVA_HOME
```

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**Tip** – Set the `JAVA_HOME` environment variable in your `.login` or `.cshrc` file.

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## Installing Solaris Container Manager 3.6 With Sun Management Center

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**Note** – (Solaris 10 only) Install Solaris Container Manager in a global zone.

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This section describes how to install Solaris Container Manager 3.6 with Sun Management Center 3.6 on the Solaris platform using the graphical user interface (GUI).

For information about using the command-line installation script, see Appendix B, “Using the Command Line for Uninstall, Install, and Setup,” in *Sun Management Center 3.6 Installation and Configuration Guide*.

This installation procedure assumes that you are installing Solaris Container Manager 3.6 from a *image* directory on your network.

For information about creating an installation image, see Chapter 4, “Preparing Systems for Sun Management Center Upgrade and Installation,” in *Sun Management Center 3.6 Installation and Configuration Guide*.

### ▼ To Install Solaris Container Manager 3.6 With Sun Management Center

- Steps**
1. **Set up the installation environment.**
    - a. **If you are installing the product remotely, grant access to the X server by typing the command `xhost + machine` in a terminal window.**  
*machine* is the name of the machine where you want to install the product.
    - b. **Log in to the machine. If you are installing the product remotely, type the command `ssh machine` and type the password.**
    - c. **Log in as root by typing `su - root` and the root password.**

- d. If you prefer a specific UNIX shell, type the command to use the shell, for example, `csch`.
- e. If you are installing the product remotely, ensure that the `DISPLAY` environment variable is set to the machine's display.  
For example, `setenv DISPLAY local-machine:0.0`.
- f. Ensure that the group entry in the `/etc/nsswitch.conf` has files as the first token.

```
group: files nis
```

- g. To change to the `cd-image` directory, type:

```
# cd /net/machine/cd-image/disk1/sbin
```

where *machine* is the machine where you created the installation image, and *cd-image* is the root directory containing the installation images.

- h. Review `/disk1/sbin/README.INSTALL` and `disk1/sbin/INSTALL_README.HWDS`.

2. Change to the directory `disk1/sbin`.

3. To start the installation, type:

```
# ./es-guiinst
```

The welcome screen appears.

4. Install the Sun Management Center components.

- a. To accept the default `/opt` installation directory, click Next or click Browse to choose another directory.
- b. Select the production environment.
- c. Select the components you want to install.  
This procedure assumes that you are installing the Server, Agent, and Console components.
- d. Review the Server Layer Binary Code License and use the scrollbar to scroll down to the end of the text.
- e. To agree to the terms of the license, select I Agree and click Next.
- f. If you want to install help and support files in additional languages, select the additional languages and click Next.
- g. If you want to install the documentation, click the box and then click Next.

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**Note** – The documentation for Solaris Container Manager 3.6 is not available on the media. For the documentation for Solaris Container Manager 3.6, go to <http://docs.sun.com/app/docs/coll/810.4>.

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The progress bar appears.

5. **Install Solaris Container Manager and other appropriate add-ons.**
  - a. **Select Solaris Container Manager 3.6 and any other add-ons.**

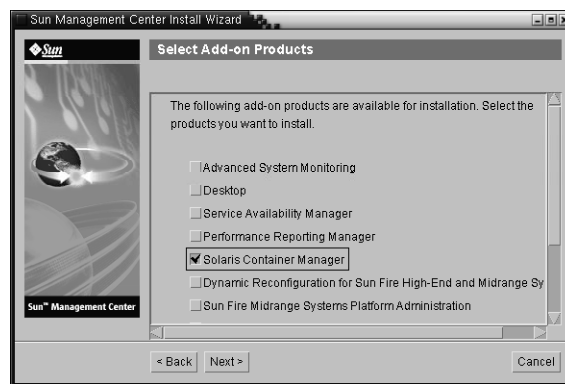


FIGURE 1-2 Add-on Products Screen

- b. **If you selected add-on products that have optional components, select the appropriate optional components and click Next.**
    - c. **Review the add-on products binary license and use the scrollbar to scroll down to the end of the text.**
    - d. **To agree to the terms of the license, select I Agree and click Next.**

The Checking Disk Space progress bar appears. If the machine does not have enough disk space, you are asked to provide an alternate file system.

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**Tip** – In a terminal window on the machine where you are installing Sun Management Center, type `df -ak` to list the amount of used and free space for each file system on the machine.

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- e. **Confirm the installation selections and click Next.**

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**Note** – The installation process can take from a few minutes to half an hour or more, depending on the products that are selected.

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If the installation failed, a summary screen is displayed.

Review the installation log in `/var/opt/SUNWsymon/install` to determine why the installation failed, and correct the problem.

- f. **To continue the setup, click Next. To run setup later, click Close.**  
You cannot run the product until you have set it up.

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## Setting Up Solaris Container Manager 3.6 With Sun Management Center

You use the graphical setup wizard to set up your Solaris Container Manager 3.6 installation.

For information about using the command-line setup script, see Appendix B, “Using the Command Line for Uninstall, Install, and Setup,” in *Sun Management Center 3.6 Installation and Configuration Guide*.

### ▼ To Set Up Solaris Container Manager 3.6 With Sun Management Center

- Steps**
1. **Set up the installation environment. For more information, see Step 1 in “To Install Solaris Container Manager 3.6 With Sun Management Center” on page 13.**

2. **To change to the Sun Management Center `sbin` directory, type:**

```
# cd /opt/SUNWsymon/sbin
```

If you installed Sun Management Center in a directory other than `/opt`, go to `/installdir/SUNWsymon/sbin`, where *installdir* is the directory you specified.

3. **To run the setup, type:**

```
# ./es-guisetup
```

The Setup screen appears.



4. Choose whether to create a setup response file.

- To create a setup response file, select **Store Response Data** and then click **Next**.

The setup responses are stored in the file `/var/opt/SUNWsymon/install/setup-responses-file`. The `setup-responses-file` file is useful if you need to duplicate the setup on the current machine on other machines.

- To continue setup without creating the setup response file, click **Next**.

5. To generate the Sun Management Center security key, type a password in both fields and click **Next**.

The password must be between one and eight characters long and contain no spaces. Entries that are greater than eight characters are truncated to eight characters.

An encrypted security key is needed for communications between all Sun Management Center processes. The key is generated, based on the password.

---

**Note** – Record in a secure location the password that you use to generate the security key for this machine. You might need to regenerate the key for the machine later. You can also change the security key later, as described in Chapter 9, “Sun Management Center Administration,” in *Sun Management Center 3.6 Installation and Configuration Guide*.

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6. Choose whether to use the default SNMPv1 community string or specify a custom community string.

The community string is used for SNMP security.

- To use the default SNMPv1 community string, click **Next**.

The default value is `public`.

- To specify a custom community string, select **Use Custom Community String**. Type the same community string in both fields, and then click **Next**.

The community string can be up to 255 characters and must not contain any spaces or blanks.

Specify the community string to a value other than `public` or `private` to provide better SNMP security.



---

**Caution** – The same SNMP community string must be used on all of the machines on which you install Sun Management Center. If you use different community strings on each machine, SNMP communications between the machines and Sun Management Center components will not work.

---

7. **Type a valid Solaris user name as the UNIX administrator account and click Next.**

The setup process checks whether the SNMP port is in use.

If the SNMP port is in use, the SNMP Port Conflict screen appears.

8. **If the SNMP Port Conflict screen appears, resolve the port conflict.**

In most cases, port 161 is the default port assigned to and used by the SNMP daemon. However, other processes or daemons, such as the System Management Agent (SMA) for Solaris 10 systems, could be using port 161. Several third-party replacements and enhancements for the SNMP daemon exist and could be installed on your system. The Sun Management Center agent is such a daemon.

- **To assign a different port number to Sun Management Center, select Use a Different Port Number. Type the port number, for example, 1161, in the Port ID field and click Next.**

For instructions on how to determine whether a port is used, see Chapter 9, “Sun Management Center Administration,” in *Sun Management Center 3.6 Installation and Configuration Guide*.

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**Note** – Record this alternate port number. You need this number if you install agents later using JumpStart or update the Sun Management Center agents using the agent update-image tools.

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- **To use port 161, select Use Port 161 and click Next.**
9. **(Solaris 8 and 9) If you use port 161, you are prompted to stop and disable the SNMP daemon `snmpdx`. (Solaris 10) If you use port 161, review the warning dialog box that appears.**
    - **To stop and disable the SNMP daemon `snmpdx` automatically, ensure that Stop and Disable SNMP Daemon `snmpdx` has been selected, and then click Next.**



---

**Caution** – Stopping and disabling the system SNMP daemon does not guarantee that you have stopped the actual process using port 161. To determine the actual daemon process that uses port 161, you must manually review all `/etc/rcN` and `/etc/rcN.d` files, where `N` is 0 through 6 and `S`. When you have identified the file that defines the process using port 161, you can disable the process by renaming the file. For example:

```
/etc/rc3.d# mv S76snmpdx s76snmpdx
```

You must stop all other processes that use port 161 before you can start Sun Management Center.

---

**10. If any Sun Management Center ports are in use, you are prompted to resolve the port conflict. Type an unused port number in the field, and then click Next.**

The ports are checked in the following order: trap service, event service, topology service, configuration service, platform agent, cst service, metadata service, database, look-up service, Web server default port, and Web server secure port.

**11. To generate the Web server security key, type the name of your organization and the name of your location and click Next.**

For example, you could type `admin` in the Name of Your Organization field and `headquarters` in the Name of Your Location field.

An encrypted security key is needed for the Sun Management Center Web server. The key is generated, based on the name of your organization and the name of your location. The names that you provide must not contain any spaces or blanks.

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**Note** – If you need to regenerate the key for a particular machine later, record in a secure location the entries that you use to generate the security key.

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**12. Confirm the setup of Sun Management Center and set up Solaris Container Manager.**

**a. Confirm the setup selections and click Next.**

The setup process can take from a few minutes to half an hour or more, depending on the products that are selected.

If the base product setup failed, you are informed that the setup of the base product was not successful. You are directed to see the log file for more details. The name of the log file is provided.

**b. If base product setup is successful, click Next.**

**c. The Select Add-on Products dialog box appears.**



**FIGURE 1-3** Add-on Products Screen

Click Next. The progress bar appears.

The Add-on Products Setup dialog box appears, informing you that Solaris Container Manager 3.6 has been set up.

**13. Start the various Sun Management Center Components.**

- a. After the add-ons are set up, click Next.
- b. Select the components to start and click Next.

The progress bar appears. When the selected components are started successfully, click Close.

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## Launching Solaris Container Manager

After installation and setup is complete, you can log in to the Solaris Container Manager through a Java Web Console.

### ▼ To Launch the Container Manager GUI

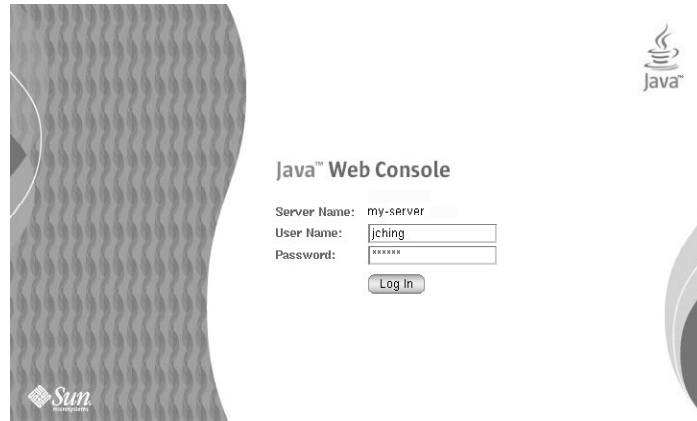
- Steps**
1. Ensure that your user ID is a Sun Management Center administrative user.  
You are considered an administrator if your user ID is a member of the `esadm` UNIX user group.
  2. Launch a browser.

3. To reach the Container Manager GUI, type:

**https://sunmc-server\_machine\_name:6789**

*sunmc-server\_machine\_name* is the machine where you have installed and set up Solaris Container Manager.

The Java Web Console login page appears.



**FIGURE 1-4** Java Web Console Login Page

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**Note** – If the login page does not appear, you might need to restart the Java Web Console. For instructions, see [“To Restart Java Web Console”](#) on page 22.

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4. **Log in to the Java Web Console using your UNIX user ID and password.**

A screen appears that has five categories: Systems, Storage, Services, Desktop Applications, and Other.

5. **Select the Solaris Container Manager 3.6 link in Systems category.**

The Container Manager GUI appears. The screen has three tabs: Hosts, Containers, and Alarms.

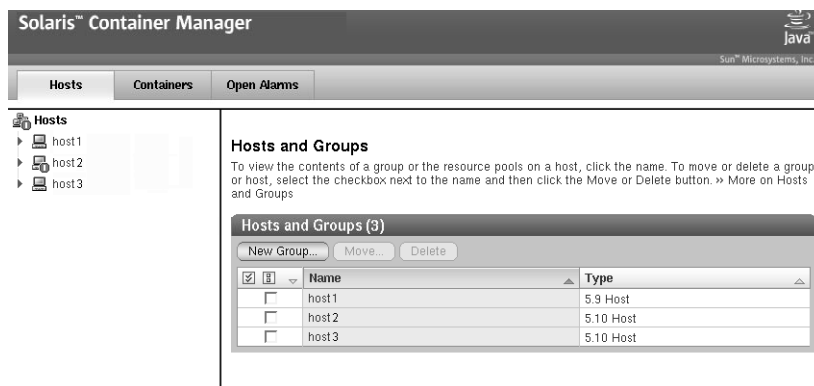


FIGURE 1-5 Container Manager Main Page

For information about using Container Manager, see *Installing and Administering Solaris Container Manager 3.6*.

## ▼ To Restart Java Web Console

If you are unable to access the Java Web Console, use this command to restart it.

**Step** ● As superuser (su -), restart the Java Web Console by typing:

```
# /usr/sbin/smcwebserver restart
```

---

## Solaris Container Manager 3.6 Documentation Resources

The following table lists the documentation resources that are available for the product. The most current versions of the documentation can be found at <http://docs.sun.com/app/docs/coll/810.6>.

TABLE 1-4 Documentation Resources

Task	Resource
To install and administer Solaris Container Manager 3.6	<i>Installing and Administering Solaris Container Manager 3.6</i>

**TABLE 1-4** Documentation Resources (Continued)

<b>Task</b>	<b>Resource</b>
To install Sun Management Center 3.6 and its add-on products, including Container Manager	<i>Sun Management Center 3.6 Installation and Configuration Guide</i>
To find installation issues, runtime issues, late-breaking news (including <i>supported hardware</i> ) and documentation issues	<i>Sun Management Center 3.6 Release Notes</i>
To obtain information about Performance Reporting Manager, the optional add-on, which works with Container Manager	<i>Sun Management Center 3.5 Update 2 Performance Reporting Manager User's Guide</i>
To obtain information about Solaris Resource Manager	<i>Solaris Resource Manager 1.3 Installation Guide</i> <i>Solaris Resource Manager 1.3 Release Notes</i> <i>Solaris Resource Manager 1.3 System Administration Guide</i>
To get information about Solaris containers and Solaris zones	<i>System Administration Guide: Solaris Containers-Resource Management and Solaris Zones</i>





# Index

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## C

commands, `es-guiinst`, graphical user interface install, 13-16

## E

`es-guiinst`, 13-16  
`es-guisetup`, 16-20

## I

installation, prerequisite information, 8-10

## J

JDK software, 12-13

## S

setup, prerequisite information, 9-10

Solaris Container Manager

documentation resources, 22-23

GUI installation, 13-16

GUI set up, 16-20

installation process diagram, 5-7

launch, 20-22

Sun Management Center and Solaris Container Manager

disk space requirements, 10-12

Sun Management Center and Solaris Container Manager (Continued)

operating system requirements, 10-12

RAM requirements, 10-12

swap space requirements, 10-12

