



N1 Grid Console - Container Manager 1.0 Release Notes

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Preface

N1™ Grid Console - Container Manager 1.0 is an add-on software product to the Sun™ Management Center 3.5 Update 1 release and is used for resource allocation and management. *N1 Grid Console - Container Manager 1.0 Release Notes* contains runtime issues and bugs that were not available until immediately before the release of the N1 Grid Console - Container Manager 1.0 software. These release notes are in printed form only.

You can find the N1 Grid Console - Container Manager 1.0 documentation on the Sun Management Center 3.5 Update 1 software 2 of 2 CD.

Note – The N1 Grid Console - Container Manager 1.0 software runs on both the SPARC® and x86 platforms. The information in this document pertains to both platforms unless otherwise specified in a special chapter, section, note, bulleted item, figure, table, or example.

Who Should Use This Book

These notes are for users and system administrators who install and use the N1 Grid Console - Container Manager 1.0 software.

Related Books

For information on installing or using N1 Grid Console - Container Manager 1.0, see *Installing and Administering N1 Grid Console - Container Manager 1.0*. You can also get help from the application by clicking Help in the upper right corner of the screen.

Using UNIX Commands

These notes do not contain information about basic UNIX[®] commands and procedures, such as shutting down the system, booting the system, or configuring devices.

See one or more of the following sources for this information:

- *Solaris Handbook for Sun Peripherals*
- Online documentation for the Solaris[™] software environment (available from <http://docs.sun.com>)
- Other software documentation that you received with your system

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Typographic Conventions

The following table describes the typographic changes that are used in this book.

TABLE P-1 Typographic Conventions

Typeface or Symbol	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name%</code> you have mail.
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name%</code> su Password:
<i>AaBbCc123</i>	Command-line placeholder: replace with a real name or value	The command to remove a file is <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . Perform a <i>patch analysis</i> . Do <i>not</i> save the file. [Note that some emphasized items appear bold online.]

Shell Prompts in Command Examples

The following table shows the default system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

TABLE P-2 Shell Prompts

Shell	Prompt
C shell prompt	<code>machine_name%</code>
C shell superuser prompt	<code>machine_name#</code>
Bourne shell and Korn shell prompt	<code>\$</code>

TABLE P-2 Shell Prompts *(Continued)*

Shell	Prompt
Bourne shell and Korn shell superuser prompt	#

Runtime Issues

This chapter describes runtime issues and bugs in the N1 Grid Console - Container Manager 1.0 (Container Manager) software.

Container Manager Issues

SPARC: Extended Accounting Feature Is Disabled in Solaris 8 Release

The Extended Accounting feature is disabled in Container Manager on systems that run the Solaris 8 Operating System (OS). As a result, the Extended Accounting Data (Exact) column of the CSV file for a container on a Solaris 8 system will be null.

Some Projects in the `/etc/project` Database Might Not Be Discovered By Container Manager

If a project in an agent host's `/etc/project` database has the same project ID as a project in the Oracle® database but has a different project name, then the project will not be discovered by Container Manager. A unique project ID across all hosts in the same server context is a Container Manager requirement.

You should not use the `projadd` command to create projects. Use only Container Manager to manage projects.

Workaround: Delete the non-default project that was created by the `projadd` command from the agent host's `/etc/project` database and create the container by using the New Container wizard in Container Manager.

Container Manager Bugs

Existing Projects on Solaris 8 OS Might Be Discovered as Application-Based Container (5026619)

If Container Manager is installed on a Solaris 8 system and projects exist in the `/etc/project` database with project names that do not conform with the naming convention (`user.username`), these projects will be discovered as an application-type container. This assignment can be confirmed in the properties sheet for the container.

If an `Inode` of `username` and a project name of `user.username` exist for this project, the container will be identified as a user-based container. The container will function normally in Container Manager.

If no `Inode` is associated with this project, you can deactivate the project. The entry in the `/etc/project` database is deleted. If you subsequently attempt to activate the container, the following error message is displayed:

```
There was an error while activating the Container.  
Container activation failed.
```

Workaround: To re-create the container definition through Container Manager, perform the following steps:

1. Delete the container definition.
2. Re-create the container definition through Container Manager.

Utilization Graphs Do Not Display Correctly (5020762)

Occasionally, utilization graphs do not display correctly. All data points relative to the x-axis appear as a single line on the y-axis.

Workaround: To reload the frame in which the utilization graph appears, perform one of the following workarounds:

- Netscape™ 4.79:
 1. In the frame in which the utilization graph is displayed, press mouse button 3.
 2. Choose Reload Frame from the pop-up menu.
- Netscape 6 and above:

1. In the frame in which the utilization graph is displayed, click mouse button 3.
 2. Choose This Frame from the pop-up menu.
 3. Choose Reload Frame from the submenu.
- Internet Explorer 5.0 and above:
 1. In the frame in which the utilization graph is displayed, click mouse button 3.
 2. Choose Refresh from the pop-up menu.

Note – Do not click the Reload or Refresh button in the browser’s toolbar. You might return to the Hosts navigation window.

SPARC: Container Manager Agent Module Causes Memory Leak on Solaris 8 (4982743)

When the Container Manager module is loaded, the module refreshes the container table by reading the `/etc/project` database. On agent hosts that run the Solaris 8 OS, a memory leak occurs due to a bug in the APIs of the `libproject` library.

Workaround: To resolve the memory leak problem, perform one of the following workarounds:

- For a permanent solution, install the following patches:

```
108528-29 108987-13 108993-33 109147-28 111023-03 111111-03
111317-05 112396-02 113648-03 115827-01 116602-01
```

- To temporarily fix the problem, edit the `/etc/nsswitch.conf` file and remove `nis` from the project line. The revised project line should look like the following example:

```
project: files
```

Some Processes Owned By User `nobody` Are Not Moved To a Container (5011290)

On the Solaris 9 Operating System, some processes, for example, the Java™ application run by user `nobody`, are not moved to a container due to a bug in the `newtask` command.

Workaround: Start the applications run by user `nobody` in the appropriate container by using the `newtask` command.

```
# /usr/bin/newtask -p projectname command
```

where *projectname* is the project in which the application is to be started and *command* is the command to start the application.

For more information, see the `newtask(1)` man page.

Help Is Not Context Sensitive (4970176)

Clicking the Help button displays the Help Table of Contents. Context-sensitive help is not currently available.

Workaround: Use one of the following options to access Help for a specific panel:

- Each panel contains inline help immediately below the page title. Click the link following the inline help to open the Help window for this panel.
- Use the Table of Contents to access the Help for a specific panel. The naming convention of the links within the Table of Contents is based on the page title. For example, to view the Help window for the *Host and Groups* panel, click the *About Host and Groups* link in the Table of Contents.

Using `nscd` as a Match Expression Causes Host to Hang (4975191)

If you use one of the following match expressions when creating a container definition and subsequently activate it, the agent host hangs:

- `n`
- `ns`
- `nsc`
- `nscd`

Workaround: Start the `nscd` process in the appropriate project by using the `newtask` command:

```
# /usr/bin/newtask -p projectname command
```

where *projectname* is the project in which the application is to be started and *command* is the command to start the application.

For more information, see the `newtask(1)` man page.

Agent Hosts Missing After Reinstalling or Running Setup of Server Layer (4964051)

If you plan to reinstall the N1 Grid Console - Container Manager 1.0 software on the server layer, be sure to save the data when uninstalling. Similarly, if you run setup again on the server layer, be sure to answer No when asked if you want to re-create the database. Otherwise, agent hosts previously discovered might be missing from the database if the data was not saved and you then reinstall or setup again on the server layer.

Workaround: If hosts are missing after you reinstall or rerun setup, restart the Sun Management Center agent on the hosts by doing the following procedure:

1. Log into agent system.
2. Become superuser (su -).
3. Stop the Sun Management Center agent by typing:

```
# /opt/SUNWsymon/sbin/es-stop -a
```

4. Start the Sun Management Center agent by typing:

```
# /opt/SUNWsymon/sbin/es-start -a
```


Documentation Issues

This chapter describes known documentation problems.

Documentation Errata

Document Affected: “Resource Utilization Reports and Extended Accounting Data” in *Installing and Administering N1 Grid Console - Container Manager 1.0*”

The description of the resource utilization graphs report for the Container Definition is incorrect. The corrected version follows:

Container Definition Data is represented as a percentage of the resource reservations for minimum CPU and memory cap for all active containers using this container definition. This percentage compares the actual resources used to the resources reserved.

Document Affected: “Managing Containers” in
*Installing and Administering N1 Grid Console -
Container Manager 1.0*”

Disregard the information in the second paragraph under the heading of Inactive Container in the Container States section.