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Intro – Sun Enterprise 10000 Capacity on Demand 1.0 administration

DESCRIPTION

This section describes commands, scripts, and programs executed in the Sun Enterprise 10000 Capacity on Demand Environment. SSP 3.1.1 is the first release of the SSP software that supports Sun Enterprise 10000 Capacity on Demand 1.0.

LIST OF COMMANDS

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**NAME**
codcheck – verify that the Capacity on Demand secure log files are valid.

**SYNOPSIS**
codcheck [−h] [files]

**CAUTION**
Do not execute this command. It is for the exclusive use of Sun Service personnel or service providers.

**DESCRIPTION**
The codcheck utility checks that the Capacity on Demand secure log files have not been corrupted. By default, codcheck checks all the secure log files in the /var/opt/SUNWssp/adm directory. If you specify one or more filenames on the command line, only those log files are checked.

codcheck writes the name of each file it checks to stdout, along with an indication of whether the file is valid or not.

**OPTIONS**

−h Display command line usage information.

files One or more Capacity on Demand secure log filenames, separated by spaces.

**RETURN VALUES**
Upon successful completion codcheck returns a zero value; otherwise, it returns a non-zero value.

**EXAMPLES**

EXAMPLE 1

The following example shows the usage information displayed by the −h option:

$ codcheck −h
COD Secure Log Checker (codcheck)
Usage: codcheck [−h] [files]
Where:
files are one or more COD log files to check.
−h Displays this help message and exits

EXAMPLE 2

In this example, one file is specified on the command line:

$ codcheck $SSPLOGGER/cod.log
Checking file /var/opt/SUNWssp/adm/cod.log . . . OK

EXAMPLE 3

This example shows the default behavior of codcheck:

$ codcheck
Checking file /var/opt/SUNWssp/adm/cod.log . . . OK
FILES

codcheck uses the following files:

/var/opt/SUNWssp/adm/cod.log

The Capacity on Demand secure log file.

/var/opt/SUNWssp/adm/cod.log.[0-12]

Archived secure log files.

SEE ALSO
codd(1M)

Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide

Sun Enterprise 10000 SSP 3.1.1 User Guide
### NAME
codd – Sun Enterprise 10000 Capacity on Demand daemon

### SYNOPSIS
codd

### CAUTION
Do not execute this command manually. It is automatically invoked and monitored for restart by the SSP startup script.

### DESCRIPTION
The Capacity on Demand daemon is a process that runs in the background on the SSP that verifies that the resources being used on the Capacity on Demand system are in agreement with the licenses found in the license file.

If the license file validation fails or the number of processors in use exceeds the number of processor licenses, \texttt{codd} sends a warning message to the following:

- The platform messages file on the SSP
  \( (/\text{var/opt/SUNWssp/adm/messages}) \)
- The system log file on the SSP \( (/\text{var/adm/messages}) \)
- The secure Capacity on Demand log file
  \( (/\text{var/opt/SUNWssp/adm/cod.log}) \)
- The /\text{etc/motd} file on the SSP.
- The ssp user as an email message, and to any other users listed in the
  \( (/\text{var/opt/SUNWssp/.ssp_private/cod_resource}) \)
- All users logged in to the SSP (sent by using \texttt{wall(1M)}).

\texttt{codd} generates warning messages until the number of processors in use is the same as, or less than, the number of processor licenses.

The Capacity on Demand daemon performs the following license validation checks when it is started:

- Verifies that the license file exists
- Verifies that the license file has not been modified
- Verifies that all licenses listed in the license file are valid for this host
- Verifies that the number of processors in use does not exceed the number of licenses

After \texttt{codd} starts, it runs until the SSP is shutdown or switched over to the spare SSP, performing license validation checks at regular intervals.

### FILES
\texttt{codd} uses the following files:
\( (/\text{var/opt/SUNWssp/.ssp_private/SUNWcod.lic}) \)
Contains Capacity on Demand license keys.
/var/opt/SUNWssp/adm/cod.log
The secure Capacity on Demand log file.
/var/opt/SUNWssp/.ssp_private/cod_resource
The Capacity on Demand resource file.

SEE ALSO
codlit(1M), cod_resource(4)
Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide
Sun Enterprise 10000 SSP 3.1.1 User Guide
NAME
codlit – install Capacity on Demand license keys

SYNOPSIS
codlit [-h ] files

DESCRIPTION
codlit installs Capacity on Demand license keys in the license file. Before running this command, you must obtain license keys from your sales representative (see the Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide) and copy the license keys to the SSP.

codlit performs validity checks on the existing license file, as well as license key files (the same validity checks that are performed by codd(1M)). Any error messages that result from these validity checks are written to standard error.

codlit does not install a license in the following situations:

- The license is a duplicate of a line already in the license file.
- The license is expired.
- The license is in the wrong tier class.
- The license has an incorrect host ID.
- The license has a signature code that does not match the license line.
- The license is at a tier level for which the tier prerequisites have not been satisfied.

OPTIONS
The following options are supported:

- -h Display command line usage information.
- files One or more license key filenames, separated by white space.

RETURN VALUES
Upon successful completion codlit returns a zero value; otherwise, it returns a non-zero value.

EXAMPLES
EXAMPLE 1

The following example shows the message codlit displays for each license key file:

ssp% codlit file
codlit: x license key(s) installed from file, file

SEE ALSO
codd(1M)
Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide
Sun Enterprise 10000 SSP 3.1.1 User Guide

7 Capacity on Demand 1.0

Last modified 12 Sep 1999
NAME
codsendlog – send the Capacity on Demand secure log file to Sun Microsystems

SYNOPSIS
codsendlog [−h] [monthly]

CAUTION
Do not execute this command. It is for the exclusive use of Sun Service personnel or service providers.

DESCRIPTION
codsendlog sends an email message to Sun Microsystems that contains the Capacity on Demand secure log file.

The address to which the email is sent is specified by the SunAddr resource in the cod_resource(4) file. If the SunAddr resource is missing, email is sent to COD_lic@sun.com.

OPTIONS
The following options are supported:
−h Display command line usage information.

monthly Do not use this parameter; it is used only by the log rotation utility that is started by cron(1M) each month.

RETURN VALUES
Upon successful completion codsendlog returns a zero value; otherwise, it returns a non-zero value.

SEE ALSO
codd(1M), cod_resource(4)

Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide

Sun Enterprise 10000 SSP 3.1.1 User Guide
Capacity on Demand 1.0 File Formats
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 Capacity on Demand resource file |

Last modified 12 Sep 1999  
Capacity on Demand 1.0
NAME  cod_resource – Capacity on Demand resource file

DESCRIPTION  The cod_resource file contains Capacity on Demand resource information. This file is read by the Capacity on Demand daemon, codd(1M), when it is started, and by codsendlog(1M) when it is invoked.

The resources in the cod_resource file have the following format:

resource_name:resource_value

where resource_name is the name of the resource and resource_value is the value for the resource. Each resource name can only occur once in the cod_resource file. Resource names are case sensitive.

The LicenseNotifyList resource lists user names to which email violation notifications are sent. In the default cod_resource file, LicenseNotifyList contains the ssp user. Removing the ssp user from the LicenseNotifyList resource (or removing the LicenseNotifyList resource from this file) has no effect; email violation messages are still sent to the ssp user. You can add additional email addresses to the cod_resource file by editing the file with a text editor. The value of LicenseNotifyList is a list of email addresses separated by spaces. For example:

LicenseNotifyList:ssp root

The SunAddr resource specifies the email address at Sun Microsystems to which the secure log file is sent each month. You can customize this address as needed by editing the cod_resource file with a text editor. For example, you might need to add additional address information required to send email external to your site. If you remove the SunAddr resource from this file, the secure log file will be sent to COD_lic@sun.com (the default email address).

The default cod_resource file contains the following:

LicenseNotifyList:ssp
SunAddr:COD_lic@sun.com

If you modify the cod_resource file, you must stop and restart the SSP, as follows:

ssp# /etc/init.d/ssp stop
ssp# /etc/init.d/ssp start

FILES  The following file is supported:

$SSPVAR/.ssp_private/cod_resource

SEE ALSO  codd(1M)