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Announcements

The Enterprise Cluster Master Toolkit is a set of templates and scripts that allow you to configure ServiceGuard packages for the HP Domain Internet servers as well as for several third-party database management systems. This unified set of high availability tools is being released together with the HP-UX Mission Critical Operating Environment, HP-UX 11i B.11.11.

The master toolkit is a collection of specific product toolkits, which include the following:

- HA Foundation Monitor toolkit, designed to monitor the status of an entire mission critical environment.
- HA internet toolkits for use with HP Domain server products.
- Database toolkits for Oracle, Informix, Sybase, and Progress database management systems.

What's in this Version

What's in this Version

Version B.01.03 contains a new toolkit for the use of Oracle Standby Database as a logical data replication method in a continental cluster. This toolkit, which is installed into /opt/cmcluster/toolkit/SGOSB, allows you to replicate data between the primary cluster and the recovery cluster. Refer to the README-CC file in the SGOSB directory for complete instructions on using the files that are provided in the toolkit.

Effective with this release, the following product toolkits are available:

HA Foundation Monitor Toolkit. This toolkit is designed to monitor
the status of the mission critical environment. It assists the HP
support engineer with tracking cluster availability in the areas of
cluster nodes, network components, and packages. A cluster
availability report will be generated nightly if an event occurs in any
of these areas.

A white paper describing this toolkit, "Installing and Configuring the Foundation Monitor Toolkit," is available on the documentation web site:

http://docs.hp.com/hpux/ha

- HA Internet Toolkits. These toolkits enable you to run all your Domain server software as ServiceGuard packages. Each toolkit contains example scripts and package configuration files, together with a README file that explains how to customize the package for your needs. Toolkits are provided for the following Domain components:
 - FastTrack Server
 - Enterprise Server
 - Enterprise Server Pro
 - Proxy Server
 - Directory Server
 - Messaging Server
 - Collabra Server
 - Calendar Server

What's in this Version

Refer to the *HP Domain Release Notes on HP-UX 10.20* (J1582-90112) or the *HP Domain Release Notes on HP-UX 11.0* (J1582-90128) for a discussion of recent changes to these products, as well as a description of problems and workarounds.

- Database Toolkits. These are provided to simplify the setup of ServiceGuard packages for your database software. Each toolkit contains example scripts and package configuration files, together with a README file that explains how to customize the package for your needs. Toolkits are included for the following database products:
 - Informix
 - Oracle
 - Oracle 8i's Oracle Standby Database
 - Progress
 - Sybase.

Minor corrections and enhancements are included with this release.

Compatibility Information and Installation Requirements

Compatibility Information and Installation Requirements

Compatibility

The Enterprise Cluster Master Toolkit requires the installation of the HP-UX operating system together with either MC/ServiceGuard (B3935CA or B3935DA) or ServiceGuard OPS Edition (B5161DA or B5161EA), formerly known as MC/LockManager.

Compatible versions of ServiceGuard and ServiceGuard OPS Edition are shown in the following table for the Foundation Monitor:

Table 1-1 Foundation Monitor Compatibility with ServiceGuard and HP-UX

| Foundation Monitor Toolkit Version | HP-UX Version | ServiceGuard Version | ServiceGuard OPS Edition Version |
|--|----------------------|-------------------------|--|
| B.01.47 | HP-UX 10.20 | A.10.10 or greater | A.10.07.01 or greater |
| B.01.47 | HP-UX 11.0 | A.11.01 or greater | A.11.01 or greater |
| B.01.47 | HP-UX 11i B.11.11 | A.11.09 or greater | A.11.09 or greater |

Compatible versions of MC/ServiceGuard and ServiceGuard OPS Edition are shown in the following table for the database and internet toolkits:

Table 1-2 Database and Internet Toolkit Compatibility with MC/ServiceGuard and ServiceGuard OPS Edition

| Master Toolkit Version | HP-UX Version | ServiceGuard Version | ServiceGuard OPS Edition Version |
|---------------------------|---------------|-------------------------|--|
| B.01.03 | HP-UX 10.20 | A.10.10 or greater | A.10.07.01 or greater |

Compatibility Information and Installation Requirements

Table 1-2 Database and Internet Toolkit Compatibility with MC/ServiceGuard and ServiceGuard OPS Edition

| Master Toolkit Version | HP-UX Version | ServiceGuard Version | ServiceGuard OPS Edition Version |
|---------------------------|----------------------|-------------------------|--|
| B.01.03 | HP-UX 11.0 | A.11.01 or greater | A.11.01 or greater |
| B.01.03 | HP-UX 11i B.11.11 | A.11.09 or greater | A.11.09 or greater |

Compatible versions of specific database and Internet server software products are shown in the following table:

Table 1-3 Script Compatibility with Internet Servers and Databases

| Internet Server or Database Name | Internet Server or Database Version (as shown in swlist output) | Toolkit Version ("what" string) |
|-------------------------------------|---|------------------------------------|
| FastTrack Server | B.03.01.05 | B.01.02 |
| Enterprise Server | B.03.06.00 | B.01.02 |
| Enterprise Server Pro | B.03.05.04 | B.01.02 |
| Proxy Server | B.03.05.04 | B.01.02 |
| Directory Server | B.03.01.03 | B.01.02 |
| Messaging Server | B.03.05.04 | B.01.02 |
| Collabra Server | B.03.05.01 | B.01.02 |
| Calendar Server | B.03.05.02 | B.01.02 |
| Informix | All | A.10.11 |
| Oracle | 7.3.x, 8.0.x, 8.1.x | B.01.02 |
| Oracle Standby Database | B.01.03 | B.01.03 |
| Sybase | 10.0.2 | B.01.02 |
| Progress | 7.3.A | A.10.11 |

Compatibility Information and Installation Requirements

Installation

The Enterprise Cluster Master Toolkit is installed on your systems when you install the Mission Critical Operating Environment. The locations of the specific toolkits are given in the next sections.

Location of Foundation Monitor Toolkit

The foundation monitor toolkit is found in the following directory:

Table 1-4 Directory Pathnames of Toolkits

| Toolkit | Directory Pathname |
|-----------------------|-----------------------------------|
| HA Foundation Monitor | /opt/cmcluster/toolkit/foundation |

Follow the instructions in the readme.pdf file that accompanies the toolkit.

Locations of Internet Toolkits

The Internet toolkits are found in the following directories:

Table 1-5 Directory Pathnames of Internet Toolkits

| Internet Toolkit | Directory Pathname |
|-----------------------|----------------------------------|
| FastTrack Server | /opt/cmcluster/toolkit/fasttrack |
| Enterprise Server | /opt/cmcluster/toolkit/domain |
| Enterprise Server Pro | /opt/cmcluster/toolkit/domain |
| Proxy Server | /opt/cmcluster/toolkit/domain |
| Directory Server | /opt/cmcluster/toolkit/domain |
| Messaging Server | /opt/cmcluster/toolkit/domain |
| Collabra Server | /opt/cmcluster/toolkit/domain |
| Calendar Server | /opt/cmcluster/toolkit/domain |

Follow the instructions in the README file that accompanies the toolkit you wish to configure as a package.

Compatibility Information and Installation Requirements

Locations of Database Toolkits

The database toolkits are found in the following directories:

Table 1-6 Directory Pathnames of Database Toolkits

| Database Toolkit | Directory Pathname |
|------------------|---------------------------------|
| Informix | /opt/cmcluster/toolkit/informix |
| Oracle | /opt/cmcluster/toolkit/oracle |
| Oracle Standby | /opt/cmcluster/toolkit/SGOSB |
| Sybase | /opt/cmcluster/toolkit/sybase |
| Progress | /opt/cmcluster/toolkit/progress |

Follow the instructions in the README file that accompanies the toolkit you wish to configure as a package.

What Manuals are Available for this Version

For information about configuring packages using the toolkits, refer to the following manuals. In addition, be sure to review the README file that accompanies the toolkit you are using.

- Managing MC/ServiceGuard (B3936-90026)
- Configuring OPS Clusters with ServiceGuard OPS Edition (B5158-90026)

If you are a Domain user, you should refer to the *HP Domain Release Notes on HP-UX 10.20* (J1582-90112) or the *HP Domain Release Notes on HP-UX 11.0* (J1582-90128) for a discussion of recent changes to these products as well as a discussion of problems and workarounds.

For the Foundation Monitor toolkit, a white paper entitled "Installing and Configuring the Foundation Monitor Toolkit" now appears on the HP documentation web page:

http://docs.hp.com/hpux/ha

Patches and Fixes in this Version

Patches and Fixes in this Version

There are no patches or fixes for this version.

Known Problems and Workarounds

The following describes known problems with the Enterprise Cluster Master Toolkit and workarounds for them.

If you are a Domain user, you should refer to the *HP Domain Release Notes on HP-UX 10.20* (J1582-90112) or the *HP Domain Release Notes on HP-UX 11.0* (J1582-90128) for a discussion of additional problems and workarounds.

Naming of Netscape Server Instances

- What is the problem? If you configure multiple instances of the same Netscape server type, and the ServerID of one server is a substring of the ServerID of another server, ServiceGuard may fail the wrong package unexpectedly.
- What is the workaround? Choose distinct, non-overlapping instance names as in the following example:

```
ServerID1: httpd-default1
ServerID2: httpd-default2
```

Do not use httpd-default for ServerID1 and httpd-default1 for ServerID2.

Changed Directory Location and Port Setting for Enterprise Server (Version 3.6)

- What is the problem? In Netscape Enterprise Server (version 3.6), the installation directory and port setting have been modified.
- What is the workaround? In the runhalt script enterprise.sh (version B.01.02) line 51, modify the environment variable SERVER as follows, to reflect the new installation directory:

```
SERVER=/opt/ns-enterprise36/https-${SERVER_ID}
```

When accessing the administration server for Enterprise Server version 3.6, use port 17493. For example in your browser, use the following URL:

Known Problems and Workarounds

http://192.1.1.3:17493

where 192.1.1.3 is the IP address of the system on which you are running the administration server.

Failure of the uxwdog Monitoring Process

• What is the problem? In Enterprise Server version 3.6, a Unix daemon, uxwdog, now monitors the health of the web server daemon, known as https-<InstanceName>, where InstanceName is the name you give to a specific server instance. (The default daemon name is https-default.)

If the web server process terminates, the uxwdog daemon will automatically restart the web server daemon. The problem is that when the uxwdog daemon terminates with the web server still running, the administration server cannot be used to stop or start the web server. (This problem can be caused by using the command kill -9 <PID>, where <PID> is the process id of the uxwdog daemon.) Furthermore, the toolkit that is monitoring the uxwdog daemon will cause the package to fail over to the adoptive node, and it will fail to run on the adoptive node.

• What is the workaround? If the uxwdog daemon fails, the web server process should be manually killed as in the following:

where <*PID>* is the process id of the web server process. This will allow the web server to be started through the control of the administration server.

Software Availability in Native Languages

The Enterprise Cluster Master Toolkit is not available in native language versions.

Software Availability in Native Languages