Equinox Installation Guides

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Document Control

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Document Conventions

The following typefaces are used throughout this guide:

* The ‘Courier’ typeface is used for directory objects and attributes, file names and command line code.
* ‘Italics’ are used for emphasis and for cross references.
* This bold typeface is used to represent information you should type in at the keyboard.

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| aperto-b | Note: This Note is used to illustrate that you should pay particular attention to its accompanying information. |

References

[1] None

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## Chapter 1: Introduction

Equinox is an application server providing a general purpose interworking function between other network elements over a number of IT de-facto protocols. Equinox can be used to convert protocol or to exchange sequences of messages with other systems.

Equinox Application Server (EAS) provides resilience through it’s distributed and replicated architecture which means that EAS is deployed on a number of “commodity” hardware platforms and can be supported on either Solaris 10 or Linux.

The EAS maintains all data in memory storage for the fastest possible access, but for availability reasons (since memory is a volatile storage medium) the memory critical process (E11) is actually realized by a number of synchronized physical/logical servers. Each server within an EAS E11 process has an identical copy of the data which represents the portion of the session/instance held by that EAS.

For whatever application is loaded onto the EAS, the EAS functions as a hosting platform for the software and provides a session database management.

This engineering specification is use to determine how the EAS performs in terms of responsiveness and stability under a particular workload. This can also serve to investigate measure, validate or verify other quality attributes of the system, such as scalability, reliability, and resource usage.

Installation guides refer to how to install Equinox on Linux OS (Debian , Red Hat) they have different step installation

## Chapter 2: Prerequisite

This release of software has been fully tested with following environments, and all installation procedures require super user privilege.

1. Linux kernel 2.6.18 ( kernel 2.6.x should be compatible )

2. gcc 4.1.2 ( version 4.1.x should be compatible )

3. cyrus-sasl-2.1.22-4 ( version 2.1.x should be compatible )

4. openssl-0.9.8b-10.el5 ( version 0.9.x should be compatible )

5. openldap 2.4.16 ( require)

6. JDK version 1.6.0\_38

Chapter 3: Installation on Debain

This chapter will guide how to install Equinox on Debain OS and setting configuration.

1. Copy Equinox package file into directory [ /opt/package/ ]

cp equinox\_1.0.0-final\_amd64.deb /opt/package/

2. Install Equinox package file and verify package

dpkg –i equinox\_1.0.0-final\_amd64.deb

dpkg -l |grep equinox

**Result:**

ii equinox 1.0.0-final Application Framework Debian Version

3. Set up crontab by command

crontab -e

4. Insert this command into crontab

0 \* \* \* \* . /opt/equinox/.profile; /opt/equinox/utils/files\_housekeeper

5. Verify crontab by command

crontab -l

**Result:**

0 \* \* \* \* . /opt/equinox/.profile; /opt/equinox/utils/files\_housekeeper

**Upgrade Equinox**

Use this follow command

dpkg –i equinox\_x.x.x-release\_amd64.deb

**Uninstall Equinox**

Use this follow command

dpkg –r equinox

**Note:** If this command has a problem with debian package, you will use other command.

dpkg –-purge equinox

Verify these command by command (It must be exist in list.)

dpkg –l |grep equinox

Chapter 4: Installation on Red Hat

This chapter will guide how to install Equinox on Red Hat OS and setting configuration.

1. Copy Equinox package file into directory [ /opt/package/ ]

cp equinox-1.0.0-final.x86\_64.rpm /opt/package/

2. Install Equinox package file and verify package

rpm -ivh /opt/packages/equinox-1.0-0-final.x86\_64.rpm

rpm -qa |grep equinox

**Result:**

equinox-1.0.0-final

3. Set up crontab by command

crontab -e

4. Insert this command into crontab

0 \* \* \* \* . /opt/equinox/.profile; /opt/equinox/utils/files\_housekeeper

5. Verify crontab by command

crontab -l

**Result:**

**Result:**

0 \* \* \* \* . /opt/equinox/.profile; /opt/equinox/utils/files\_housekeeper

**Upgrade Equinox**

Use this follow command

rpm -Uvh equinox-x.x.x-release.rpm

**Uninstall Equinox**

Use and verify with this follow

rpm –e equinox

rpm –qa |grep equinox

**Rollback Equinox with RPM package**

When you install rpm package file and it have many problem . You can rollback to stable earlier version with this follow.

1. In directory [/etc/yum.conf] add this command

tsflags=repackage

2. In directory [/etc/rpm/macros] add the line (create this file if it doesn’t exist)

%\_repackage\_all\_erasures 1

3. Use this command to rollback version

rpm -Uhv ‘[timing parameter]’

**Note:** You should know earlier versionwhen it was installed. Timing parameter can use in format time, date such as (HH:MM, X hours ago, Month Date, yesterday)

**Example**

rpm -Uhv –rollback ’14:00′  
rpm -Uhv –rollback ’9 hours ago’  
rpm -Uhv –rollback ‘december 12′  
rpm -Uhv –rollback ‘yesterday’

Chapter 5: Installation on Solaris (sparc)

This chapter will guide how to install Equinox on Solaris OS and setting configuration.

1. Copy Equinox package file into directory [ /opt/package/ ]

cp equinox-xx.xx.xx-solaris.pkg /opt/package/

2. Install Equinox package file and verify package

pkgadd -d /opt/packages/equinox-xx.xx-xx-solaris.pkg

pkginfo | grep equinox

**Result:**

application equinox equinox version 1.2.0

**Patch Equinox**

Patching is the same installing.

1. Copy Equinox patch file into directory [ /opt/package/ ]

cp equinox-XX.XX.XX-YY-solaris.patch /opt/package/

2. Install Equinox patch file and verify patch

pkgadd -d equinox-XX.XX.XX-YY-solaris.patch

showrev -p|grep equinox

**Result:**

Patch: EQXPATCH-XX.XX.XX-YY Obsoletes: Requires: Incompatibles: Packages: equinox

**Backing out (Rollback)**

Backing out is rollback patch which will roll back to previous patch.

1. See patch label, Use command “showrev”.

showrev –p | grep equinox

**Result:**

Patch: EQXPATCH-XX.XX.XX-YY Obsoletes: Requires: Incompatibles: Packages: equinox

2. Backing out patch with current path.

*Warning: You must ensure equinox all process had stopped.*

patchrm EQXPATCH-XX.XX.XX-YY

**Uninstall Equinox**

*Warning: Using uninstall command will delete all package and patch*.

Removing package. Use command “pkgrm”

pkgrm equinox

Chapter 6: Install EquinoxAS on Debian

EqunoxAS is use for communicate with application they connect between application and EAS Core Layer.

1. Before install EqunoxAS module you should be check user & group. ( See in Ch 3,4 )

2. Copy EqunoxAS package file into directory [ /opt/package/ ]

cp equinoxAS\_2.2.2-final\_amd64.deb /opt/package/

3. Install EqunoxAS package file and verify package

dpkg –i equinoxAS\_2.2.2-final\_amd64.deb

dpkg -l |grep equinoxAS

4. Configure (app.EC02.serv.ins) for starting EC02 Process

5. Create symbolic link on /opt/equinox/conf with this command

ln -s /opt/equinoxAS/conf/app.EC02.serv.ins app.EC02.serv.ins

**Upgrade EquinoxAS**

Use this follow command

dpkg –i equinoxAS\_x.x.x-release\_amd64.deb

**Uninstall EquinoxAS**

Use this follow command

dpkg –purge equinoxAS

Chapter 7: Install EquinoxAS on Redhat

EquinoxAS is use for communicate with application they connect between application and EAS Core Layer.

1. Before install EquinoxAS module you should be check user & group. ( See in Ch 3,4 )

2. Copy EquinoxAS package file into directory [ /opt/package/ ]

cp equinoxAS-2.2.2-final.x86\_64.rpm /opt/package/

3. Install EquinoxAS package file and verify package

rpm –ivh equinoxAS-2.2.2-final.x86\_64.rpm

rpm -qa |grep equinoxAS

4. Configure (app.EC02.serv.ins) for starting EC02 Process

5. Create symbolic link on /opt/equinox/conf with this command

ln -s /opt/equinoxAS/conf/app.EC02.serv.ins app.EC02.serv.ins

**Upgrade EquinoxAS**

Use this follow command

rpm -Uvh equinoxAS-x.x.x-release.rpm

**Uninstall EquinoxAS**

Use this follow command

rpm -e equinoxAS

Chapter 8: Miscellaneous

**Add group**

configure by this follow

groupadd –g 1000 sanduser

**Add user**

configure by this follow

useradd -u 1001 -g 1000 -d /home/toro -s /bin/bash toro

**Profile**

In UNIX operating system have many different configuration. In Debain it read from .profile but Red Hat it read from ***.bash\_profile***. When bash is invoked as an interactive login shell, or as a non-interactive shell with the --login option, it first reads and executes commands from the file ***/etc/profile***, if that file exists. After reading that file, it looks for **~/.bash\_profile,** **~/.bash\_login**, and **~/.profile**, in that order, and reads and executes commands from the first one that exists and is readable. The --noprofile option may be used when the shell is started to inhibit this behavior.

**Equinox command utilities**

This utilities may help you to manage Equinox process.

eqx[Option]<Application>[Process][forcestop|start|stop|getstats|flushstats|resetstats

|show|status]

**Description:**

Application Process when you match flow on.

Process Indentify process you want to start.(When you want to

start all process don’t input this parameter.)

**[Command Description]**

**start** Start process follow configuration.

**stop**  Stop process which is running.

**forcestop** Force stop process.

**getstats** Display current stats in buffer.

**flushstats** Flushing all stat in buffer to file.

**resetstats**  Clear and Reload stats configuration.

**show** Show all process equinox.

**status** Show current status process equinox.

**flushcdr** Flushing buffer into temporary file.

**rotatecdr** Rotating temporary file into current file.

**backup** Backup data for Data Base(E01).

**clearlog** Delete log file.

**clearmon** Delete mon file.

**clearstats**  Delete stats file.

**\*version** Show revision history eqx utility.

**\*showapp** Show current application was running.

**\*clrmem** Clear unused shared memory.

**[Option Description]**

**-a** all Default is disable.

**-p** port Default is 7878.

**-h** host Default is localhost.

**-i** iteration Iteration is number of loop to get stats.

**-d** delay Delay time before begin next command.

**-b** Bases Directory Equinox, default /opt/equinox.

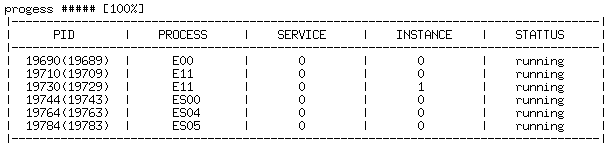
**-w** filename Name for backup, Default is EQXBACKUP.

**-g** ignore Ignore process,when use start command.

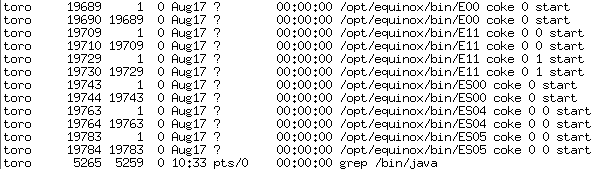
**-m** mandotory Mandatory process, default is all process.

**[NOTE]**

\* You can insert only command..



**Figure 1 :** Show status process



**Figure 2 :** Show technical process for debug