

Installing Eucalyptus

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Installing Eucalyptus Dependencies

Eucalyptus depends on some existing components in order to run smoothly. This section describes which dependencies Eucalyptus needs and how to install them.

Install the JDK

To install the Java™ Platform, Standard Edition Development Kit (JDK):

1. Go to <http://www.oracle.com/technetwork/java/javase/downloads/index.html> and select **Java Platform (JDK)**.
2. Accept the license agreement.
3. Select either Linux x86 or Linux x64 and whichever installer you prefer.
The package you chose is downloaded.
4. Open a terminal window and type the following two commands:

```
[root@clc]# chmod 0700 jdk*.bin
[root@clc]# ./jdk*.bin
```

The first command protects the downloaded package from access. The second command installs the files to a directory labeled "jdk" and the current version.

5. Create the directory/opt/packages/jdk:

```
[root@clc]# mkdir -p /opt/packages/jdk
```

6. Move the contents of the newly created jdk directory to /opt/packages/jdk. In the following example, the directory is labeled jdk1.6.0_20.

```
[root@clc]# mv jdk1.6.0_20/* /opt/packages/jdk/
```

For more information about installing the JDK, go to [Java Platform Installation page](#).

Install Standard Dependencies

Install the Eucalyptus-prepared dependency RPMs on all machines, both front-end and node machines.



Note: Remove any preexisting copies of these dependencies before you install. The install process returns an error message if it finds multiple copies of a dependency.

In the terminal window, type the following commands:

```
[root@clc]# cd eucalyptus-deps*
[root@clc]# yum install -y *.rpm --nogpgcheck
[root@node1]# cd eucalyptus-deps*
[root@node1]# yum install -y *.rpm --nogpgcheck
```

Install VDDK

Install the VMware's VIX DiskLib dynamic libraries (VDDK) on the front end. These libraries are contained within the vmware-vix-disklib-distrib folder within the eucalyptus dependences tarball.

Run the installer script, accepting the End User License Agreement and selecting the default install prefix [/opt/packages/vddk] as the root directory where all folders will be placed, as shown:

```
[root@clc]# cd eucalyptus-deps*/vmware-vix-disklib-distrib
```

```
[root@clc]# ./vmware-install.pl
Creating a new VMware VIX DiskLib API installer database using the tar4
format.
Installing VMware VIX DiskLib API.
You must read and accept the VMware VIX DiskLib API End User License
Agreement to continue. Press enter to display it.
Do you accept? (yes/no) yes

Thank you.
What prefix do you want to use to install VMware VIX DiskLib API?
The prefix is the root directory where the other
folders such as man, bin, doc, lib, etc. will be placed.
/opt/packages/vddk

The installation of VMware VIX DiskLib API 1.1.0 build-163495 for Linux
completed
successfully. You can decide to remove this software from your system at any
time
by invoking the following command:
"/usr/bin/vmware-uninstall-vix-disklib.pl".
Enjoy,

--the VMware team
```

Install Eucalyptus Components

Install the Eucalyptus component RPMs (-cloud, -walrus, -sc, -cc).



Note: If you are running a licensed version of Eucalyptus with VMware support, you will also install `-broker` as shown in the following example.

The following example uses `x86_64`. Replace with `i386` for 32-bit architectures.

1. Enter the following command in the terminal window:

```
root@clc]# rpm -Uvh eucalyptus-${VERSION}eee-0.*.x86_64.rpm \
eucalyptus-common-java-${VERSION}eee-0.*.x86_64.rpm \
eucalyptus-cloud-${VERSION}eee-0.*.x86_64.rpm \
eucalyptus-walrus-${VERSION}eee-0.*.x86_64.rpm \
eucalyptus-sc-${VERSION}eee-0.*.x86_64.rpm \
eucalyptus-cc-${VERSION}eee-0.*.x86_64.rpm \
eucalyptus-gl-${VERSION}eee-0.*.x86_64.rpm
# include the following RPM for VMware support only
eucalyptus-broker-${VERSION}eee-0.*.x86_64.rpm
```

2. On the node machine(s), install the `NC` RPMs (-nc), as shown:

```
[root@node1]# rpm -Uvh eucalyptus-${VERSION}-0.*.x86_64.rpm \
eucalyptus-nc-${VERSION}eee-0.*.x86_64.rpm \
eucalyptus-gl-${VERSION}eee-0.*.x86_64.rpm
```