**Installing Eucalyptus**

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**1. 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.

**1.1. Install the JDK**

**About this task**

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

**Procedure**

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.

1. 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.

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

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

1. 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/

**What to do next**

For more information about installing the JDK, go to [Java Platform Installation page](http://www.oracle.com/technetwork/java/javase/index-137561.html#linux).

**1.2. Install Standard Dependencies**

**About this task**

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

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| --- | --- |
| **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. |

**Procedure**

1. 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

**1.3. Install VDDK**

**About this task**

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.

**Procedure**

1. 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

**2. Install Eucalyptus Components**

**About this task**

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 examples use x86\_64. Replace with i386 for 32-bit architectures.

**Procedure**

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