Browse and Install Images from EuStore

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This task explains how to browse and install images from EuStore.

To browse and install an image from EuStore:

1. Find an image on EuStore:

```
eustore-describe-images
```

This command returns a list of images available from the EuStore. For example:

```
4150406313 centos      i386    2011.07.02     CentOS 5 1.3GB root,
 Hypervisor-Specific Kernels
1643448352 centos      x86_64  2011.07.02     CentOS 5 1.3GB root,
 Hypervisor-Specific Kernels
2215913473 centos      x86_64  2011.12.28     CentOS 5 1.3GB root, Single
 Kernel
3235725435 centos      x86_64  2012.1.14      CentOS 5 1.3GB root, Single
 Kernel
0155946749 centos      i386    2011.07.02     CentOS 5 4.5GB root,
 Hypervisor-Specific Kernels
2606989864 centos      x86_64  2011.07.02     CentOS 5 4.5GB root,
 Hypervisor-Specific Kernels
3814798756 centos      x86_64  2011.12.28     CentOS 5 4.5GB root, Single
 Kernel
0598061105 centos      x86_64  2012.1.14      CentOS 5 4.5GB root, Single
 Kernel
0308481541 debian      i386    2011.07.02     Debian 6 1.3GB root,
 Hypervisor-Specific Kernels
3402295892 debian      x86_64  2011.07.02     Debian 6 1.3GB root,
 Hypervisor-Specific Kernels
1450309069 debian      x86_64  2012.1.14      Debian 6 1.3GB root, Single
 Kernel
1258936568 debian      i386    2011.07.04     Debian 6 4.5GB root,
 Hypervisor-Specific Kernels
3056211774 debian      x86_64  2011.07.02     Debian 6 4.5GB root,
 Hypervisor-Specific Kernels
0969770451 debian      x86_64  2011.12.28     Debian 6 4.5GB root, Single
 Kernel
4084351385 debian      x86_64  2012.1.14      Debian 6 4.5GB root, Single
 Kernel
0061180839 ubuntu      i386    2011.07.02     Ubuntu 10.04 1.3GB root,
 Hypervisor-Specific Kernels
3192747366 ubuntu      x86_64  2011.07.02     Ubuntu 10.04 1.3GB root,
 Hypervisor-Specific Kernels
2378540351 ubuntu      x86_64  2012.1.14      Ubuntu 10.04 1.3GB root,
 Single Kernel
1497058306 ubuntu      i386    2011.07.02     Ubuntu 10.04 4.5GB root,
 Hypervisor-Specific Kernels
1463636971 ubuntu      x86_64  2011.07.02     Ubuntu 10.04 4.5GB root,
 Hypervisor-Specific Kernels
0962847746 ubuntu      x86_64  2012.1.14      Ubuntu 10.04 4.5GB root,
 Single Kernel
```

2. Pick an available image from the returned list and note the image ID. For this example, we will choose:

```
3235725435  centos      x86_64  2012.1.14      CentOS 5 1.3GB root, Single
 Kernel
```

3. Install the image from EuStore using the eustore-install-image command. For this example, we only need to specify the image ID and the name of a bucket (the bucket will be created if it doesn't already exist):

```
eustore-install-image -b testbucket -i 3235725435
```

This command performs a number of tasks for you, including downloading the image from the central Eucalyptus image store and installing the image on your own Eucalyptus private cloud. The output from this command will look similar to the following example:

```
Downloading Image :  CentOS 5 1.3GB root, Single Kernel
0-----1-----2-----3-----4-----5-----6-----7-----8-----9-----10
##################################################################

Checking image bundle
Unbundling image
tar root = euca-centos-2012.1.14-x86_64
path = euca-centos-2012.1.14-x86_64
path = euca-centos-2012.1.14-x86_64/initrd.img-2.6.32-5-amd64
Bundling/uploading ramdisk
Checking image
Encrypting image
Splitting image...
Part: initrd.img-2.6.32-5-amd64.part.00
Generating manifest /tmp/jz8asK/initrd.img-2.6.32-5-amd64.manifest.xml
Checking bucket: testbucket
Creating bucket: testbucket
Uploading manifest file
Uploading part: initrd.img-2.6.32-5-amd64.part.00
Uploaded image as testbucket/initrd.img-2.6.32-5-amd64.manifest.xml
testbucket/initrd.img-2.6.32-5-amd64.manifest.xml
eri-A7A63A1D
path = euca-centos-2012.1.14-x86_64/euca-centos-2012.1.14-x86_64.img
path = euca-centos-2012.1.14-x86_64/vmlinuz-2.6.32-5-amd64
Bundling/uploading kernel
Checking image
Encrypting image
Splitting image...
Part: vmlinuz-2.6.32-5-amd64.part.00
Generating manifest /tmp/jz8asK/vmlinuz-2.6.32-5-amd64.manifest.xml
Checking bucket: testbucket
Uploading manifest file
Uploading part: vmlinuz-2.6.32-5-amd64.part.00
Uploaded image as testbucket/vmlinuz-2.6.32-5-amd64.manifest.xml
testbucket/vmlinuz-2.6.32-5-amd64.manifest.xml
eki-5F663C59
Bundling/uploading image
Checking image
Encrypting image
Splitting image...
Part: euca-centos-2012.1.14-x86_64.part.00
Part: euca-centos-2012.1.14-x86_64.part.01
Part: euca-centos-2012.1.14-x86_64.part.02
Part: euca-centos-2012.1.14-x86_64.part.03
Part: euca-centos-2012.1.14-x86_64.part.04
```

```
Part: euca-centos-2012.1.14-x86_64.part.05
Part: euca-centos-2012.1.14-x86_64.part.06
Part: euca-centos-2012.1.14-x86_64.part.07
Part: euca-centos-2012.1.14-x86_64.part.08
Part: euca-centos-2012.1.14-x86_64.part.09
Part: euca-centos-2012.1.14-x86_64.part.10
Part: euca-centos-2012.1.14-x86_64.part.11
Part: euca-centos-2012.1.14-x86_64.part.12
Part: euca-centos-2012.1.14-x86_64.part.13
Part: euca-centos-2012.1.14-x86_64.part.14
Part: euca-centos-2012.1.14-x86_64.part.15
Part: euca-centos-2012.1.14-x86_64.part.16
Part: euca-centos-2012.1.14-x86_64.part.17
Part: euca-centos-2012.1.14-x86_64.part.18
Generating manifest /tmp/jz8asK/euca-centos-2012.1.14-x86_64.manifest.xml
Checking bucket: testbucket
Uploading manifest file
Uploading part: euca-centos-2012.1.14-x86_64.part.00
Uploading part: euca-centos-2012.1.14-x86_64.part.01
Uploading part: euca-centos-2012.1.14-x86_64.part.02
Uploading part: euca-centos-2012.1.14-x86_64.part.03
Uploading part: euca-centos-2012.1.14-x86_64.part.04
Uploading part: euca-centos-2012.1.14-x86_64.part.05
Uploading part: euca-centos-2012.1.14-x86_64.part.06
Uploading part: euca-centos-2012.1.14-x86_64.part.07
Uploading part: euca-centos-2012.1.14-x86_64.part.08
Uploading part: euca-centos-2012.1.14-x86_64.part.09
Uploading part: euca-centos-2012.1.14-x86_64.part.10
Uploading part: euca-centos-2012.1.14-x86_64.part.11
Uploading part: euca-centos-2012.1.14-x86_64.part.12
Uploading part: euca-centos-2012.1.14-x86_64.part.13
Uploading part: euca-centos-2012.1.14-x86_64.part.14
Uploading part: euca-centos-2012.1.14-x86_64.part.15
Uploading part: euca-centos-2012.1.14-x86_64.part.16
Uploading part: euca-centos-2012.1.14-x86_64.part.17
Uploading part: euca-centos-2012.1.14-x86_64.part.18
Uploaded image as testbucket/euca-centos-2012.1.14-x86_64.manifest.xml
testbucket/euca-centos-2012.1.14-x86_64.manifest.xml
Installed image: emi-F0E33C52
```

Note the last line in the output, which provides the image ID for the image you just installed from the euca store. In this example, the image ID is emi-F0E33C52.

4. Verify the image was installed on your Eucalyptus cloud. To do this, use the euca-describe--images command, which returns a list of the available images on your Eucalyptus cloud:

```
euca-describe-images
```

This command will return output similar to the following example:

```
IMAGE     eki-5F663C59     testbucket/vmlinuz-2.6.32-5-amd64.manifest.xml
    449455269925     available     public          x86_64     kernel
             instance-store
IMAGE     eki-2E963B03     tmp0hpdstttmi/vmlinuz-2.6.28-11-
generic.manifest.xml     000000000001     available     public
 i386     kernel                    instance-store
IMAGE     emi-A6D3365C     tmpu9kzz13enx/
ubuntu.9-04.x86-64.img.manifest.xml     449455269925     available
```

```
 public          i386     machine     eki-2E963B03     eri-E3263C85
   instance-store
IMAGE     eri-E3263C85     tmpqnx9gm08oa/initrd.img-2.6.28-11-
generic.manifest.xml     000000000001     available     public
 i386     ramdisk                    instance-store
IMAGE     eri-A7A63A1D     testbucket/initrd.img-2.6.32-5-
amd64.manifest.xml     449455269925     available     public
 x86_64     ramdisk                    instance-store
IMAGE     emi-F0E33C52     testbucket/euca-centos-2012.1.14-
x86_64.manifest.xml     449455269925     available     public
 x86_64     machine     eki-5F663C59     eri-A7A63A1D          instance-
store
```

Note the ID of the last image in the output -

```
emi-F0E33C52
```

- matches that of the image we installed from EuStore.

The image has been successfully downloaded from EuStore and installed on your Eucalyptus cloud.

You can now run an instance from this image and connect to it using SSH.