Run and Connect to an Instance

Contents

Run and Connect to an Instance

To launch and conenct to an instance:

1. Choose an image:

```
euca-describe-images
```

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

```
                      euca-describe-images
```

This command returns a list of all available images installed on your Eucalyptus cloud. For 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
```

For this example, we will use the last image in the list - emi-F0833C52.

2. Create a key pair using the euca-add-keypair command. This command will store the public half of the key pair and keep it available for your Eucalyptus cloud instances, and will output the private half of the key pair. You should save this output to a file for future use, as in the following example:

```
euca-add-keypair mytestkey >mytestkey.private
```

3. Change permissions on the file so that only you can access and change it:

```
                      chmod 0600 mytestkey.private
```

4. Run the instance with the euca-run-instances command, specifying the appropriate image ID and the name of the key pair you just created. For example:

```
euca-run-instances emi-F0E33C52 -k mytestkey
```

This will return output similar to the following:

```
RESERVATION      r-CCE33FC0      449455269925      default
INSTANCE      i-68A24092      emi-F0E33C52      0.0.0.0      0.0.0.0
 pending      mytestkey      0
m1.small      2012-05-17T10:36:46.232Z      PARTI00      eki-5F663C59
 eri-A7A63A1D
monitoring-disabled      0.0.0.0      0.0.0.0                    instance-store
```

Note that the initial state of the instance is 'pending' while the instance is being created.

5. After a few moments, check to see if your instance is available for use yet by using the euca-describe-instances command:

```
                        euca-describe-insances   i-68A24092
```

When the instance is ready, this command will return output similar to the following:

```
RESERVATION      r-CCE33FC0      449455269925      default
INSTANCE      i-68A24092      emi-F0E33C52      192.168.9.91      10.93.7.76
   running      mytestkey      0
m1.small      2012-05-17T10:36:46.232Z      PARTI00      eki-5F663C59
 eri-A7A63A1D
monitoring-disabled      192.168.9.91      10.93.7.76
 instance-store
```

Note that the instance is now listed as 'running', and there's now an IP address - in this example, 192.168.9.91. You can use this IP address to connect to the instance.

6. Connect to the running instance using SSH, specifying the private key file and the IP address of the instance. For example:

```
                        ssh -i mytestkey.private 192.168.9.91
```

This command returns output similar to the following:

```
Warning: Permanently added '192.168.9.91' (RSA) to the list of known
 hosts.
Last login: Thu May 17 03:39:58 2012 from eucahost-9-91.eucalyptus
-bash-3.2#
```

Congratulations! You've now successfully launched an instance and connected to it with SSH.