



# Red Hat Enterprise Linux OpenStack Platform 5

## Launch an Instance

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This article provides the basic steps to launch a Compute instance for an end user. Only a project login name and password are required, together with the dashboard's IP address.

## 1. Add Components

Use the following sections to create a key pair and an image source. These components are used in the creation of an instance and are not available by default. You will also need to create a new security group allowing SSH access to the user.

### 1.1. Create Key Pair

A key pair is added into an instance to ensure SSH access by users without having to have a static key set or knowing the root password. Typically, one key pair is added to each project.

1. In the dashboard, select the **Project** tab, and click **Compute > Access & Security**.
2. On the **Key Pairs** tab, click the **Create Key Pair** button.
3. Specify 'OS-Key' in the **Key Pair Name** field, and click the **Create Key Pair** button.

When the key pair is created, a key pair file is automatically downloaded through the browser. For command-line SSH connections, you can optionally load this file into SSH by executing:

```
# ssh-add ~/.ssh/OS-Key.pem
```

### 1.2. Obtain and Upload image

1. Download a Red Hat Enterprise 7.0 guest image here (requires a Red Hat login):

[https://access.redhat.com/downloads/content/69/ver=/rhel---7/7.0/x86\\_64/product-downloads](https://access.redhat.com/downloads/content/69/ver=/rhel---7/7.0/x86_64/product-downloads)

2. In the dashboard, select the **Project** tab, and click **Compute > Images**.
3. Click the **Create Image** button, and enter the following values:

<b>Name</b>	Name of the new image (for example, RHEL6.5-Guest).
<b>Image Source</b>	<b>Image File</b>
<b>Image File</b>	Browse to your downloaded image file and add it.
<b>Format</b>	Select the image file's format (for example, QCOW2) .
<b>Public</b>	Select this check box to make the image public to all users with access to the current project.

4. Click **Create Image**. The image can be used after its status has changed to 'Active'.

### 1.3. Create a Security Group

1. In the dashboard, select the **Project** tab, and click **Compute > Access & Security**.
2. On the **Security Groups** tab, click + **Create Security Group**.
3. Call the group 'OS-Access', give it a brief description, then click **Create Security Group**.
4. For the OS-Access group, click **Manage Rules**.

For each of the following,

## 2. Add Instance

1. In the dashboard, select the **Project** tab, and click **Compute > Images**. The **Launch Instance** dialog is displayed.

2. Click the **Launch Instance** button, and enter the following values:

**Table 1. TITLE**

Tab	Field	Value
Details	Instance Name	RHEL6.5-1
Details	Flavor	m1.small
Details	Instance Count	1
Details	Instance Boot Source	Boot from image
Details	Image Name	RHEL6.5-Guest
Access & Security	Key Pair	OS-Key
Access & Security	Security Groups	OS-Access
Networking	Selected Networks	Private (select a private network in your cloud)

3. Click the **Launch** button.

4. For the RHEL6.5-1 instance:

- a. Click **More**, then **Associate Floating IP**.
- b. Click **+**, then **Allocate IP**, and then **Associate**. You can now see that the instance has both a private and a public IP address.

### 3. Log into Instance

The login credentials needed to access a created instance depend on the image you used to create it. The Red Hat guest image requires the downloaded key pair file and the cloud-user:

- If you added the keypair file to SSH earlier, use:

```
$ ssh cloud-user@192.168.21.11
```

- To reference the keypair file directly, use:

```
$ ssh -i ./os-key.pem cloud-user@192.168.21.11
```