HP Helion 1.1 Development Platform: Quick Start Developer Trial

The Quick Start Developer Trial is the fastest way to evaluate the HP Helion Development Platform for yourself. Download the files, create and configure your sandbox environment, and deploy one or more sample applications. We provide several sample applications to help you get started quickly, but you may also use your own.

To ensure your success, complete the installation steps in the order they are listed below.

1. Register for your free Helion Public Cloud Account.

Register for your free trial Helion Public Cloud account to get access to the download repositories.

Note: While you are asked to provide a credit card during registration, this step is for verification **only** and the card will not be charged.

Keep your Helion Public Cloud username and password handy as you will be asked for them during installation.

2. Download and install the configuration tool (*cf-mgmt*)

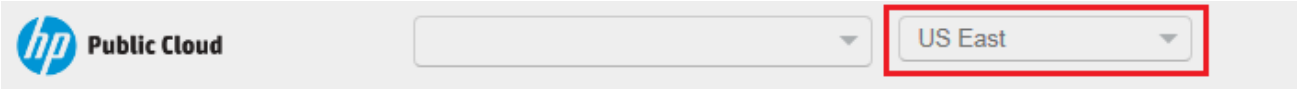
During this step, you will download and install the correct configuration tool, named *cf-mgmt*, for your operating system.
This tool provides a quick way to pass configuration parameters to the Helion Development Platform.

- Windows
- Linux x64
- Mac OS X

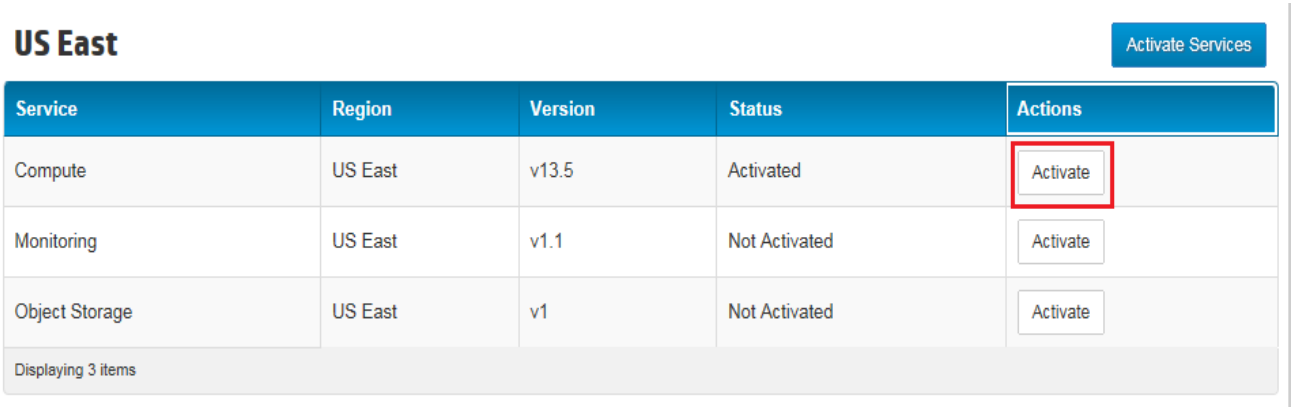
3. Create the Sandbox Environment

During this step, you will log in to the Helion Public Cloud and use the web-based console, called Horizon, to create the sandbox environment.

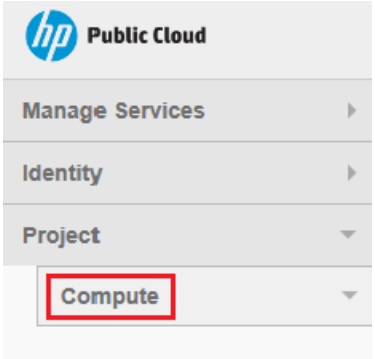
1. Log into the Horizon console using the HP Helion Public Cloud username and password that you created during registration.
   Note: If you are accessing the Horizon console from an installation of HP Helion OpenStack® instead, the Horizon console will look slightly different from the following screenshots, but the installation procedure is the same.
2. Create a network with public internet access.
3. Change the Horizon Console to the **US East Region**.



4. In the **US East section**, in the **Compute** row, click **Activate** to activate the Compute service.

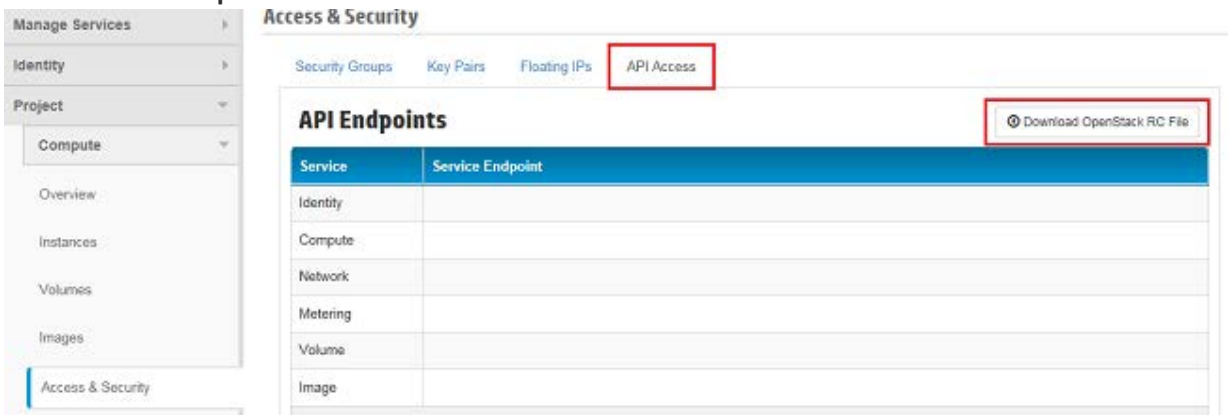


5. Click the **Project** panel and then the **Compute** sub-panel.

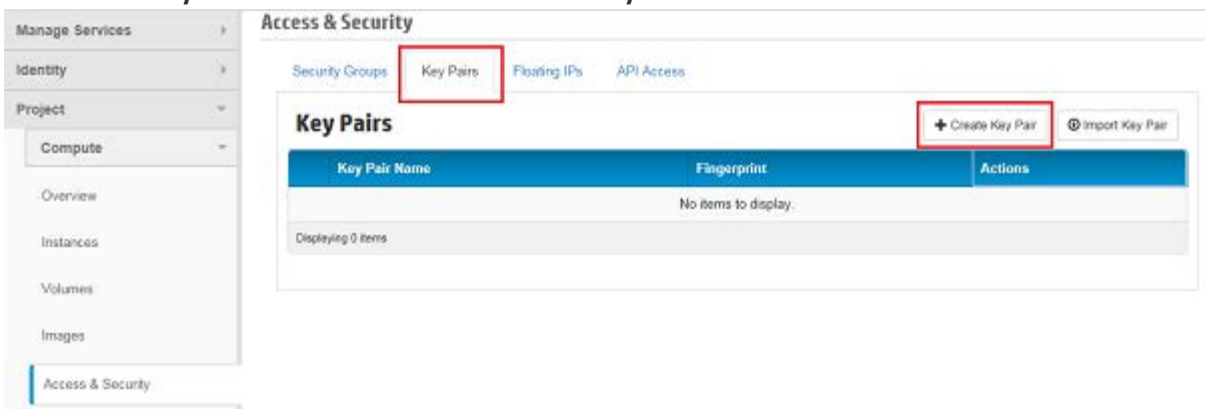


6. Download the configuration file (RC file) that contains the service settings and environment variables that have been pre-configured for this sandbox project.
   a. Click **Access & Security** and then click the **API Access** tab.

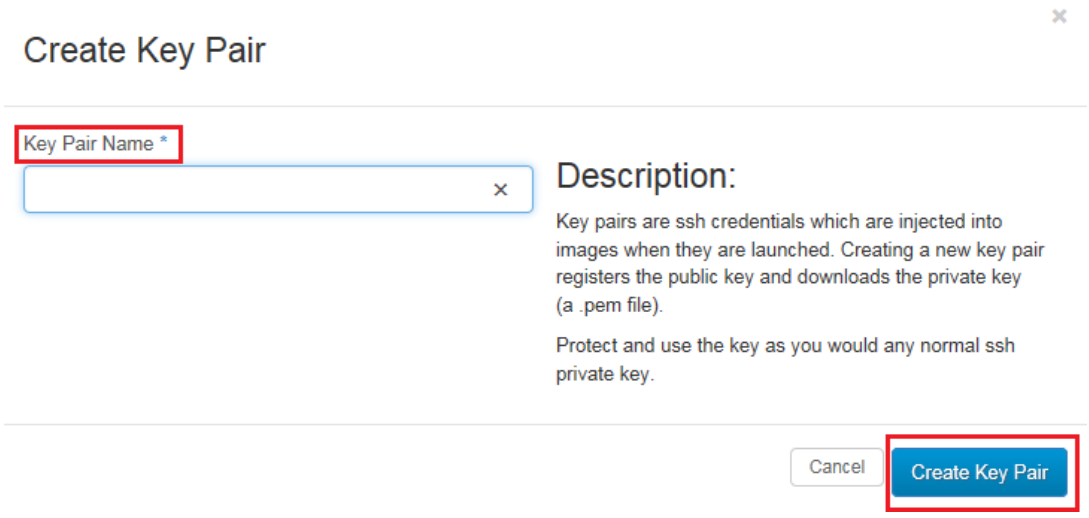
b. Click **Download OpenStack RC file**.



7. Create a key pair.
   a. Click on the **Compute** sub-panel and then click **Access & Security**.
   b. Click on the **Key Pairs** tab and then click **+ Create Key Pair**.



   c. Enter a name in the **Key Pair Name** field and then click **Create Key Pair**.



   d. Save the *keyPairName.pem* file somewhere convenient. If you are not automatically prompted to save the file, click the link to download it. This file contains the RSA private key that you will need when you SSH into your VM instance.

4. Create a Cluster

1. Open the RC file in a text editor, as you will need values from that file.
2. Open a terminal window and change directory to the location where you installed the *cf-mgmt* command-line tool.
3. Run the following command set in the *cf-mgmt* tool.

```
cf-mgmt.exe ^
  --os-auth-url  ^
  --os-username  ^
  --os-password  ^
  --os-tenant-id  ^
  --os-tenant-name  ^
  --os-region-name  ^
create-cluster ^
  --keypair-name  ^
  --admin-email  ^
  --admin-password  ^
  --load trial.yml
```

In the unlikely event that the cluster creation fails, verify that you are entering the commands correctly and try again.

After the *cf-mgmt* tool creates the cluster, it displays the ALS Console URL. This URL will have the form *api.ipaddress.xip.io*
For example: *api.255.255.255.255.xip.io*

Use this URL in your web browser to navigate to the web-based ALS Management Console and then log in using the admin username and password you specified above.

Note: When launching the web-based ALS management console, you may be "warned" that the site has a self-signed certificate or that the site is "not trusted". These "warnings" can be safely ignored.

After you log into the Console, you may want to reference the full ALS User Documentation for further instructions for creating users and deploying applications.

5. Explore Sample Applications

During this step, you will send a set of commands and variables to the *cf-mgmt* tool.

The tool will create the cluster based on those parameters, set up the admin login credentials, and return a URL that you can use to connect to the cluster.

Your infrastructure is now ready for development. We have provided some simple sample applications in multiple programming languages for you to examine and deploy. These sample applications provide insight on how to push applications and connect those applications to HP Helion OpenStack® services.

6. Termination and Troubleshooting

Execute these commands to delete your VMs, release the floating IP addresses, and remove the cluster security groups.

- For the Windows® operating system:

```
cf-mgmt.exe ^
       --os-auth-url  ^
       --os-username  ^
       --os-password  ^
       --os-tenant-id  ^
       --os-tenant-name  ^
       --os-region-name  ^
delete-cluster ^
       --keypair-name  ^
       --load trial.yml
```

- For Mac or Linux operating systems:

```
source (path to openstackrc file)
./cf-mgmt delete-cluster \
--keypair-name  \
--load trial.yml
```