EUCALYPTUS

Hackathon 2

2015-04-08 Hewlett-Packard

Contents

Introduction

Welcome!

The Quick Start Developer Trial is the fastest way to create a sandbox environment to evaluate the HP Helion Development Platform. At the end of the Helion Development Platform Application Lifecycle Service (ALS) installation and configuration process, you will have a microcloud you can use to deploy your sample apps.

Create HP Helion Public Cloud Account

Before you start, you need to register for your $300 credit HP Helion Public Cloud account.

1. Go to the *Helion Public Cloud registration page* and follow the instructions.
2. Once you complete this registration tool, click **Yes**.
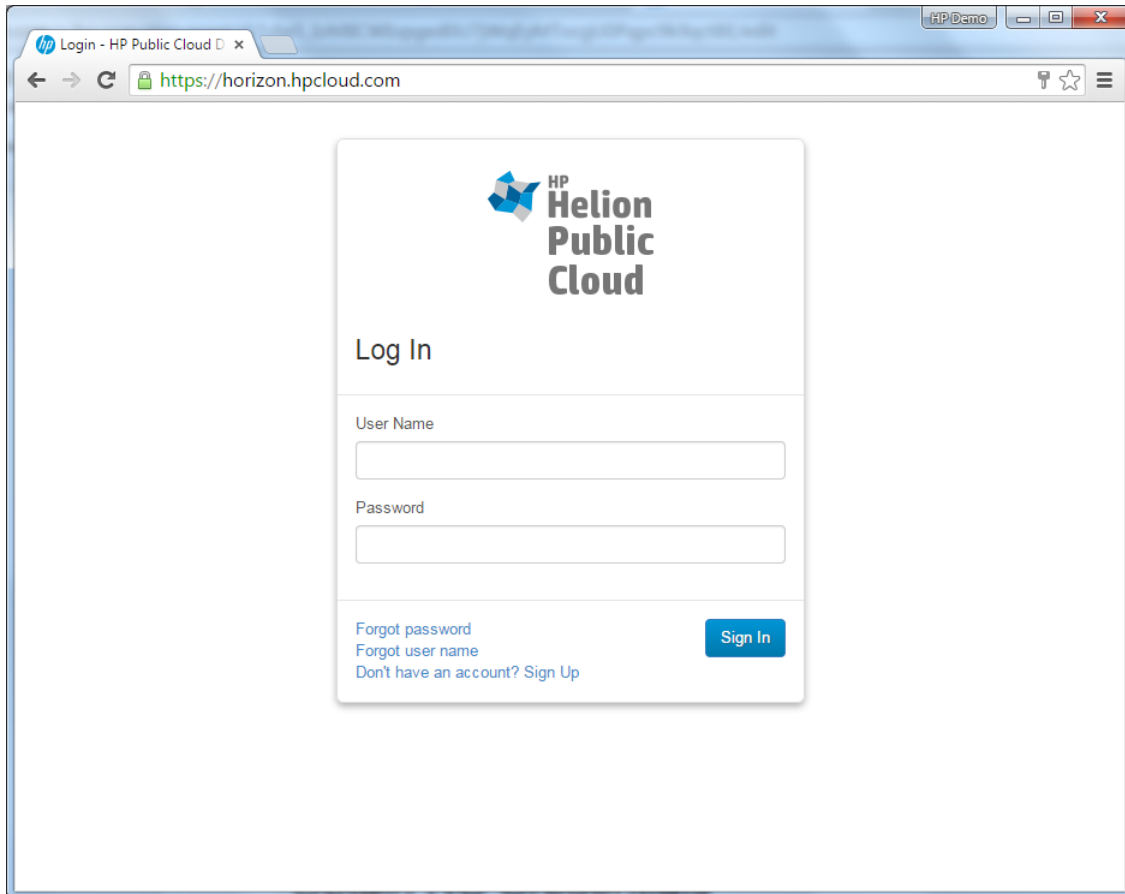
Download the cf-mgmt Tool

Click the download link that is appropriate for your operating system.

1. Click the download link that is appropriate for your operating system.

    - *Microsoft Windows*

    - *x64 Linux*

    - *Mac OS X*

2. Refer to the *ALS Cluster Management Tool command reference*.

Log Into the Public Cloud

Log into the *Horizon console* using the HP Helion Public Cloud username and password that you created during registration.
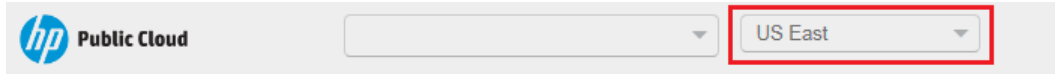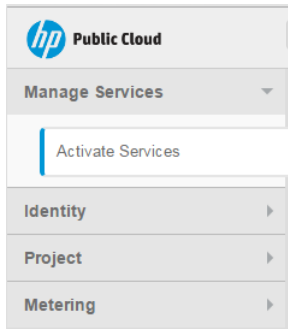
Enable Compute

In this step, you'll enable compute services for your HP Helion Public Cloud.

1. On the top drop-down menu in the Horizon console, change to the **US East Region**.

2. From the drop-down menu, select **Managed Services**, and then click **Activate Services**.

3. In the **Compute** row, click **Activate** to activate the Compute service.

4. Click the **Project** panel and then the **Compute** sub-panel.
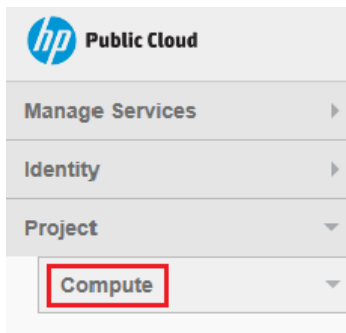
Obtain RC Credentials

1. In the Horizon menu, click **Access & Security** and then click the **API Access** tab.
2. Click **Download OpenStack RC file**.
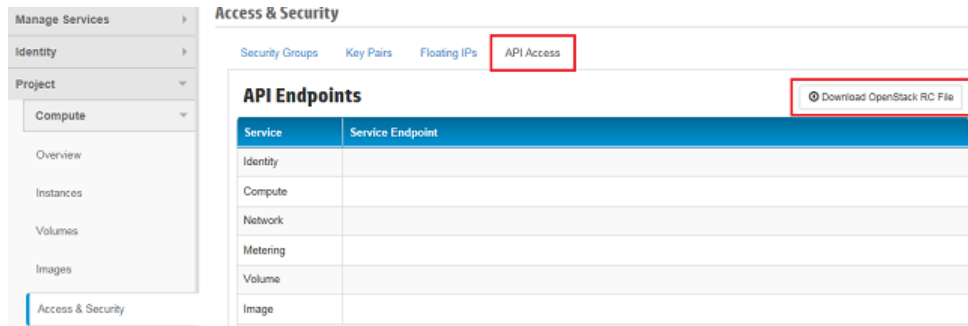
3. Save the file in a secure place on your local disk.

Create a Secure Key

1. Click on the **Key Pairs** tab.
2. Click + **Create Key Pair**.

3. Enter a name in the **Key Pair Name** field and then click **Create Key Pair**.
4. When prompted, save the `keyPairName.pem` file.

Create a Cluster

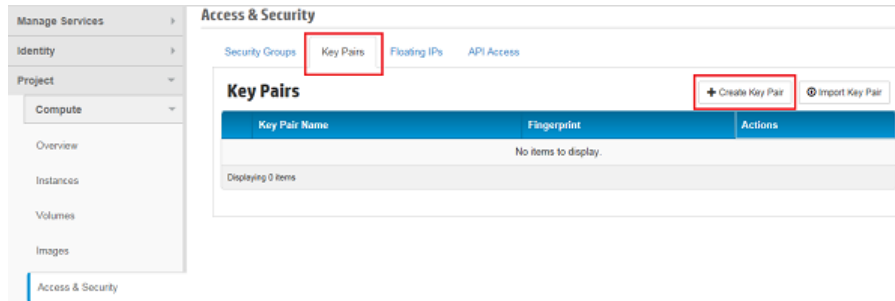1. Open a terminal window and change directory to the location where you installed the `cf-mgmt` command-line tool.

2. Run the appropriate command set for the target host's operating system:

   a) For Microsoft Windows, open the RC file you downloaded with a text editor. Use the variables values in the file to set the indicated values. Then run the command:

   cf-mgmt.exe ^ --os-auth-url <OS_AUTH_URL from openstackrc> ^ --os-username <OS_USERNAME from openstackrc> ^ --os-password <OpenStack password> ^ --os-tenant-id <OS_TENANT_ID from openstackrc> ^ --os-tenant-name <OS_TENANT_NAME from openstackrc> ^ --os-region-name <OS_REGION_NAME from openstackrc> ^ create-cluster ^ --keypair-name <name of keypair created earlier> ^ --admin-email <email address for admin user> ^ --admin-password <password for admin user> ^ --load trial.yml

   b) For Mac or Linux, run the following commands:

   source <path to openstackrc file> ./cf-mgmt create-cluster \ --keypair-name <name of keypair created earlier> \ --admin-email <emailaddress for admin user> \ --admin-password <password for admin user> \ --load trial.yml

Get Your Management Console URL

1. Go back to the HP Helion Public CLoud management console.
2. From the **Compute** menu, select **Instances**.
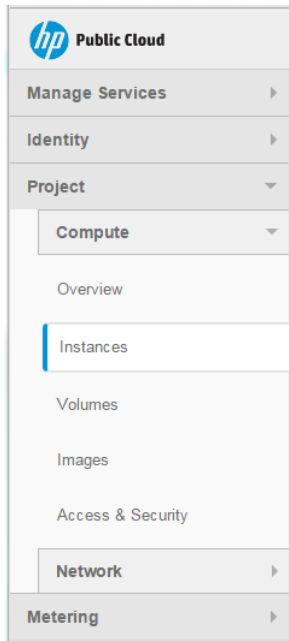
The cluster will be running on a single virtual machine in your account that will have the name cluster1-core

3. Write down the public facing IP (15.X.X.X) under the IP Address Column
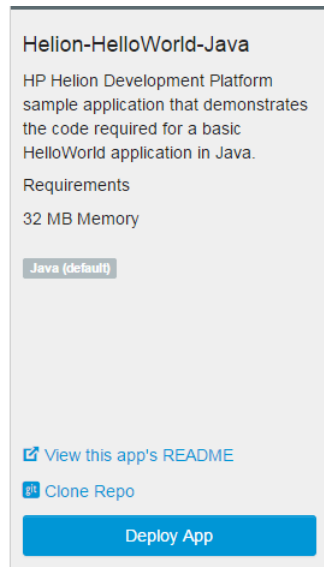4. Your URL will be `https::://<IP>.xio.io`. For example:

Use this URL in your web browser to navigate to the web-based ALS management console.

# Deploy an Application from the Sample Application Gallery

1. Scroll down and click the **Deploy from the Sample Applications** button.

2. Click **Deploy App** in one of the sample apps (we recommend starting with a hello world app). For example:

3. Fill out the application deployment form:
   a) Enter a name in the **App Name** text box.
   b) Select a space from the **Space** drop-down list box.
   c) Select domain in the 15.X.X.X address range.
   d) Check the **Start application after deployment** check box.
   e) Click **Deploy Application**.
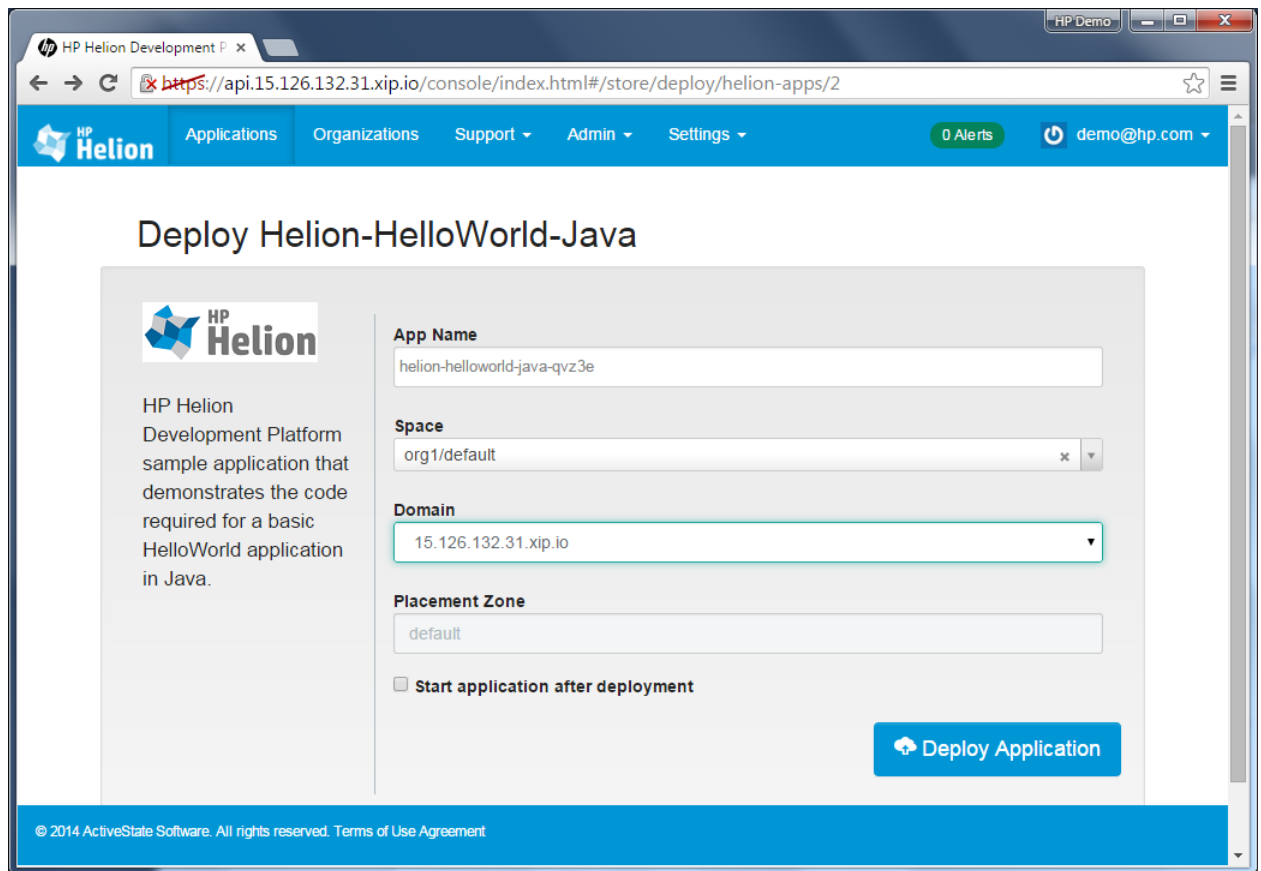
The **View App** button will be enabled before the app is ready. Usually it takes a few minutes for the application to be fully deployed. When the app is fully deployed, the log stream will show output similar to the following:

```
http://helion-helloworld-java-edmwx.15.X.X.X.xip.io/ deployed
All done.
```

4. Click **View App**.

Congratulations! You have now deployed your first application!