

GovHack - How to use HDP

About the Helion Development Platform

The HP Helion Development Platform is a Platform-as-a-Service (PaaS) that helps developers build great cloud-native applications across private and public clouds.

Based on Cloud Foundry™ the HP Helion Development Platform is fully integrated with HP Helion OpenStack®, is open and interoperable, and allows developers to focus on development rather than infrastructure, using PaaS tools to build and deploy the right apps for any environment.

The Helion Development Platform has support for languages such as Java, Python, Ruby, PHP, and Node.js, and open source technologies such as MySQL, RabbitMQ, and MemCache.

The main website for the Helion Development Platform is:

<http://www8.hp.com/au/en/cloud/helion-devplatform-overview.html>

The technical documentation for the Helion Development Platform 1.1 can be found here:

<http://docs.hpcloud.com/helion/devplatform/1.1/>

You can learn how to deploy a simple Servlet-based Java web app here. It displays the text "Hello World!". This is a demonstration of the minimum requirements to build a functional application. Use this sample to ensure that you have set up your environment for deployment to Helion Development Platform. v1.1

<http://docs.hpcloud.com/helion/devplatform/1.1/workbook/helloworld/java/>

You can learn all the commands for the HP Helion Development Platform Application Lifecycle Service Client here :

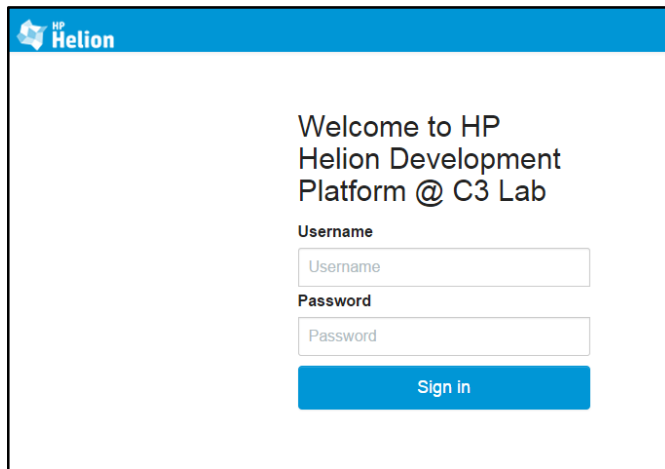
<http://docs.hpcloud.com/helion/devplatform/1.1/als/user/reference/client-ref/>

Getting Started

This section will help you to get started, login and access your account.

At GovHack you would have spoken with the Helion team and been provided a login Username and Password.

Using your favorite internet web browser, navigate to the Helion Development Platform at <https://api.helionit.es> and enter your Username and Password.



HP Helion

Welcome to HP
Helion Development
Platform @ C3 Lab

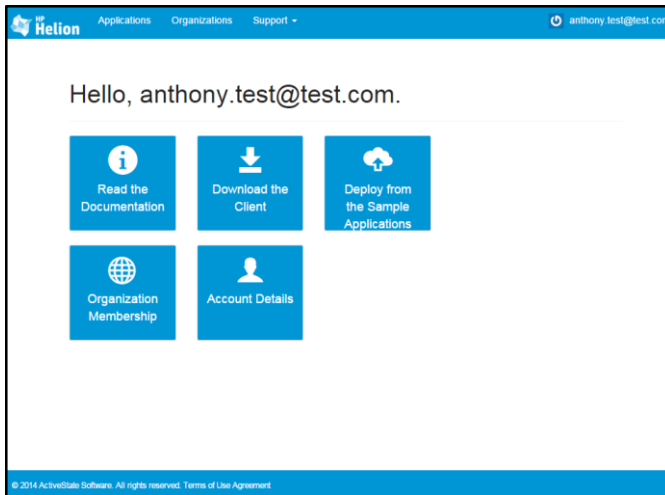
Username

Password

Sign in

Once logged into the Helion Development Platform you will see a main menu screen with the following options:

- **Read the Documentation:**
This menu item will take you to the full documentation for the Helion Development Platform v1.1 located at <http://docs.hpcloud.com/helion/devplatform/1.1/als/>
- **Download the Client:**
This will allow you to download the Command Line Interface to directly interface with the Helion Development Platform API.
- **Deploy from the Sample Applications:**
This menu item allows you to deploy sample applications from the Store.
- **Organisation Membership:**
Allows you to see the user Space you are allocated to including the other Users in your Organisation, Space Quota and Allocation, Quota usage and Domains associated to the Space.
- **Account Details:**
Shows your Organisation membership, your Contact details and your login meta-data.
- **Applications:**
This will show the applications, their current status (started, stopped, failed) and allow you to drill in to launch the application and manage it. Management items include application versions, instances, autoscaling, routes, log streams etc.

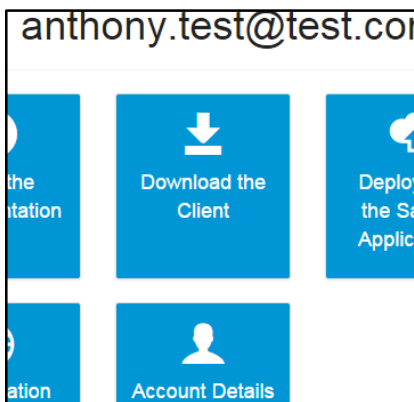


Take some time to explore each of the menu items and become familiar with the Helion Development Platform.

Downloading the Client (Command Line Interface Tool)

The Client command line interface tool can be downloaded through the Helion Development Platform main menu.

1. Click on the menu item called "Download the Client"



2. Select the required operating system version. The Client supports the following:

- Mac OS X
- Windows
- Linux i686 (*note: this is the 32 bit version*)
- Linux x86_64 (*note: this is the 64 bit version*)



Pushing your first application

To begin pushing your first application you should watch the following video. It shows how to push a simple Java application to the Helion Development Platform.

<https://youtu.be/-E1qjIFHSDU>

You can follow all the tutorials here:

Tutorial 1: Java Hello World Example

This Servlet-based Java web app displays the text "Hello World!". This is a demonstration of the minimum requirements to build a functional application. Use this sample to ensure that you have set up your environment for deployment to Helion Development Platform.

<http://docs.hpcloud.com/helion/devplatform/1.1/workbook/helloworld/java/>

Tutorial 2 - Java MySQL Database Example

This very simple Servlet-based Java webapp displays the text "Executed query "SELECT "Hello World!""", and then the result of that query: "Hello World". This is a demonstration of the minimum requirements to build an application that can connect to a MySQL database provided by ALS and run queries against it. Use this sample to ensure that you have set up your environment for connecting to and working with MySQL on the Helion Development Platform.

<http://docs.hpcloud.com/helion/devplatform/1.1/workbook/database/java/>

Tutorial 3 - Java RabbitMQ Messaging Example

This very simple Servlet-based Java web app displays a simple form that takes a string from the user, adds the message to a queue, reads it from the queue and prints the message back to the screen. This is a demonstration of the minimum requirements to build an application that can connect to a RabbitMQ cluster provided by ALS and interact with it. Use this sample to ensure that you have set up your environment correctly for connecting to and working with RabbitMQ on the Helion Development Platform.

<http://docs.hpcloud.com/helion/devplatform/1.1/workbook/messaging/java/>

ENDS