Deploying your first application on Code Engine



Estimated Time: 15 mins

In this lab you will learn how to deploy a Hello World web application from GitHub on Code Engine. IBM Cloud Code Engine has been made availble to you through this lab environment.

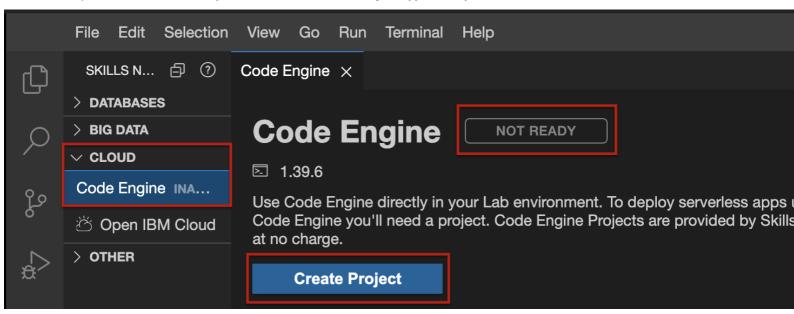
Learning Objectives:

Aftet completing this lab you will be able to:

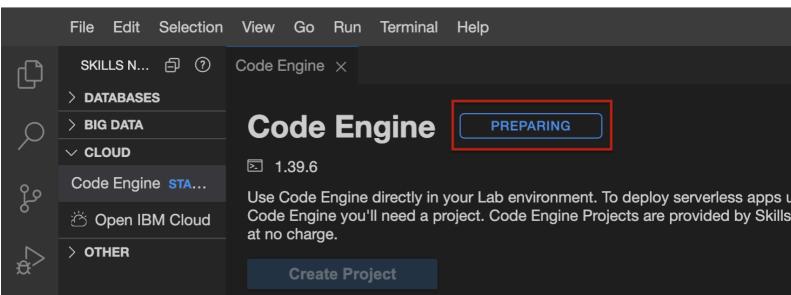
- 1. Start Code Engine service to create applications
- 2. Use the code engine service to deploy an application and create a remote access URL for the application.
- 3. List the applications you have deployed.

Setting up Code Engine

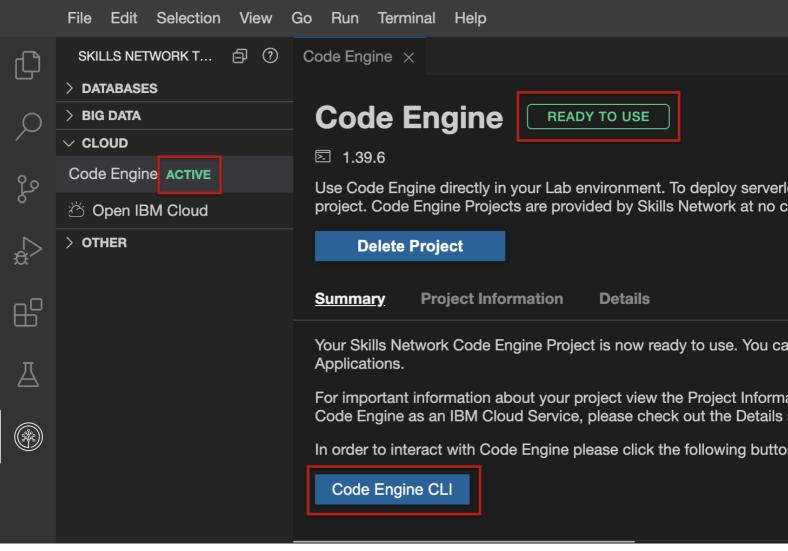
1. On the menu in your lab environment, Click Cloud dropdown and choose Code Engine. The code engine set up panel comes up. Click Create Project.



2. The code engine environment takes a while to prepare. You will see the progress status being indicated in the set up panel.



3. Once the code engine set up is complete, you can see that it is active. Click on Code Engine CLI to begin the pre-configured CLI in the terminal below.



4. You will observe that the pre-configured CLI statrup and the home directory is set to the current directory. As a part of the pre-configuration, the project has been set up and Kubeconfig is set up. The details that are shown on the terminal.

```
ibmcloud ce project current
theia@theiadocker-lavanyas:/home/project$ ibmcloud ce project current
Getting the current project context...
OK
```

Name: Code Engine - sn-labs-lavanyas

ID: ee5183a9-4516-4bd1-8f4e-4a8615cafd81

Subdomain: v9oc2xsjxaz

Domain: us-south.codeengine.appdomain.cloud

Region: us-south

Kubernetes Config:

Context: v9oc2xsjxaz

Environment Variable: export KUBECONFIG="/home/theia/.bluemix/plugins/code-engine/Code Eng

sn-labs-lavanyas-ee5183a9-4516-4bd1-8f4e-4a8615cafd81.yaml"

theia@theiadocker-lavanyas:/home/project\$ 📙

Deploying the first application

You will now use the CLI to deploy the Hello World application.

- 1. Run the following command to see the list of applications that exist.
- 1. 1
- 1. ibmcloud code-engine application list

Copied! Executed!

There will be no applications if this is the first time you are running the lab.

- 2. You can alternatively use the short for ibmcloud ce app in the place of ibmcloud code-engine application.
- 1. 1
- 1. ibmcloud ce app list

Copied! Executed!

https://helloworld.vaw1bizsrbq.us-south.codeengine.appdomain.cloud theia@theiadocker-lavanyas:/home/project\$

4. You will see that the command creates the application and also internally sets up the required infrastructure. It takes a a few seconds and it finally gives a confirmation along with the URL.

Run 'ibmcloud ce application get -n helloworld' to check the application status.

OK Follow link (cmd + click)

https://helloworld.vaw1bizsrbq.us-south.codeengine.appdomain.cloud
theia@theiadocker-lavanyas:/home/project\$

5. Press ctrl(Windows)/cmd(Mac) and the link that is created. Alternatively copy the link and paste it in a browser page and press enter. The hello world application page renders as given below.



Hello World!

- 6. To get the details of the application, run the following command
- 1 ibmcloud co ann got name bolle

1. ibmcloud ce app get --name helloworld

Copied! Executed!

It gives detailed information about the application including the time of creation, resources used, number of instances etc.,

Congratulations! You have completed this lab successfully and deployed your first application on Code Engine.

Author(s)

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Changelog

DateVersion Changed byChange Description2022-11-14 0.1LavanyaInitial version created

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