Lab Tools

Objectives

Install the IBM® Cloud Private command line interface (CLI) cloudctl. This CLI is used to create, access, and manage ICP clusters.

NOTICE: Some of the following instructions utilize the **'curl'** command. If curl is not installed on your laptop it must first be installed to complete this lab.

Scroll to a CLI tool and desired operating system then follow the installation instructions.

cloudctl

macOS

1 - Download the macOS CLI to install:

Replace with the IP address of the IBM Cloud Private instance from where the CLI will be obtained.

```
curl -kLo cloudctl-darwin-amd64-3.1.1-973 https://<ICP IP>:8443/api/cli/cloudctl-dar
```

Example file name from the above curl command:

```
22939080 Dec 27 15:22 cloudctl-darwin-amd64-3.1.1-973
```

2 - Rename the above downloaded file to cloudctl.

```
mv cloudctl-darwin-amd64-3.1.1-973 cloudctl
```

3 - Make the kubectl binary executable.

```
chmod +x ./cloudctl
```

4 - Move the binary in to your PATH.

```
sudo mv ./cloudctl /usr/local/bin/cloudctl
```

Linux

1 - Download the Linux CLI to install:

Replace with the IP address of the IBM Cloud Private instance from where the CLI will be obtained.

```
curl -kLo cloudctl-linux-amd64-3.1.1-973 https://<ICP IP>:8443/api/cli/cloudctl-linu
```

Example file name from the above curl command:

```
20504064 Dec 27 16:22 cloudctl-linux-amd64-3.1.1-973
```

2 - Rename the above downloaded file to kubectl.

```
mv cloudctl-linux-amd64-3.1.1-973 cloudctl
```

3 - Make the kubectl binary executable.

```
chmod +x ./cloudctl
```

4 - Move the binary in to your PATH.

```
sudo mv ./cloudctl /usr/local/bin/cloudctl
```

Windows

1 - Download the Windows CLI to install.

Replace with the IP address of the IBM Cloud Private instance from where the CLI will be obtained.

```
curl -kLo cloudctl-win-amd64-3.1.1-973.exe https://<ICP IP>:8443/api/cli/cloudctl-wi
```

Example file name from the above curl command:

```
20441600 Dec 27 16:22 cloudctl-win-amd64-3.1.1-973.exe
```

2 - Run the above file to install the CLI on the Windows system.

3 - Add the binary in to your PATH.

Verify the CLI is installed

From a terminal or command prompt enter:

```
kubectl version
```

Example output:

```
Client Version: 3.1.1-973+c18caee2d82dc45146f843cb82ae7d5c28da7bc7
Server Version: 3.1.1-973+c18caee2d82dc45146f843cb82ae7d5c28da7bc7
```

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docker

macOS

Click this link and follow the offical docker instructions.

Linux

- Centos - Click this link and follow the offical docker instructions.
- Debian - Click this link and follow the offical docker instructions.
- Fedora - Click this link and follow the offical docker instructions.

- Ubuntu - Click this link and follow the offical docker instructions.

Windows

Click this link and follow the official docker instructions.

Verify docker CLI is installed

From a terminal or command prompt enter:

```
docker version
```

Example output:

```
Client: Docker Engine - Community
 Version:           18.09.0
 API version:       1.39
 Go version:        go1.10.4
 Git commit:        4d60db4
 Built:             Wed Nov  7 00:47:43 2018
 OS/Arch:           darwin/amd64
 Experimental:      false

Server: Docker Engine - Community
 Engine:
  Version:          18.09.0
  API version:      1.39 (minimum version 1.12)
  Go version:       go1.10.4
  Git commit:       4d60db4
  Built:            Wed Nov  7 00:55:00 2018
  OS/Arch:          linux/amd64
  Experimental:     true
```

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kubectl

macOS

Kubernetes web site

Use instructions from official Kubernetes site

Download from ICP site using curl

1 - Download the macOS CLI to install:

Replace with the IP address of the IBM Cloud Private instance from where the CLI will be obtained.

```
curl -kLo kubectl-darwin-amd64-v1.11.1 https://<ICP IP>:8443/api/cli/kubectl-darwin-
```

Example file name from the above curl command:

```
54925568 Dec 27 15:24 kubectl-darwin-amd64-v1.11.1
```

2 - Rename the above downloaded file to kubectl.

```
mv kubectl-darwin-amd64-v1.11.1 kubectl
```

3 - Make the kubectl binary executable.

```
chmod +x ./kubectl
```

4 - Move the binary in to your PATH.

```
sudo mv ./kubectl /usr/local/bin/kubectl
```

Linux

1 - Download the Linux CLI to install:

Replace with the IP address of the IBM Cloud Private instance from where the CLI will be obtained.

```
curl -kLo kubectl-linux-amd64-v1.11.1 https://<ICP IP>:8443/api/cli/kubectl-linux-am
```

Example file name from the above curl command:

```
55400930 Dec 27 16:19 kubectl-linux-amd64-v1.11.1
```

2 - Rename the above downloaded file to kubectl.

```
mv kubectl-linux-amd64-v1.11.1 kubectl
```

3 - Make the kubectl binary executable.

```
chmod +x ./kubectl
```

4 - Move the binary in to your PATH.

```
sudo mv ./kubectl /usr/local/bin/kubectl
```

Windows

1 - Download the Windows CLI to install.

Replace with the IP address of the IBM Cloud Private instance from where the CLI will be obtained.

```
curl -kLo kubectl-win-amd64-v1.11.1.exe https://<ICP IP>:8443/api/cli/kubectl-win-am
```

Example file name from the above curl command:

```
55672320 Dec 27 16:20 kubectl-win-amd64-v1.11.1.exe
```

2 - Run the above file to install the CLI on the Windows system.

3 - Add the binary in to your PATH.

Verify the CLI is installed

From a terminal or command prompt enter:

```
kubectl version
```

Example output:

```
Client Version: version.Info{Major:"1", Minor:"11", GitVersion:"v1.11.1", GitCommit:"b1b29978270dc22fecc592ac55d903350454310a", GitTreeState:"clean", BuildDate:"2018-07-17T18:53:
20Z", GoVersion:"go1.10.3", Compiler:"gc", Platform:"darwin/amd64"}
error: You must be logged in to the server (the server has asked for the client to provide credentials)
```

Once logged in an authenticated with a kubernetes cluster the error portion of the above message will not be shown.

Hint Lab Tools

No hint available for this lab.

Answer Lab Tools

Ensure CLI tools are installed.

> Confirm Tools complete