Task cloudctl

cloudctl - IBM Cloud Private CLI tool

The objective is to install and/or verify the IBM Cloud Private (ICP) command line interface (CLI) cloudctl. This CLI can be used to authenticate, create, access, and manage ICP clusters. For this course of work the CLI will only be used to authenticate to an ICP instance.

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.

Press the link for the desired operating system and follow the installation instructions.

macOs

Linux

Windows

macOS installl

1 - Download the macOS CLI to install:

Replace <ICP IP> with the instructor provided 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-darwin-amd64
```

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
```

Next press this to verify cloudctl installation

Linux install

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-linux-amd64
```

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
```

Next press this to verify cloudctl installation

Windows install

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-win-amd64.exe
```

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.

Next press this to verify cloudctl installation

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
```

Hint cloudctl

Perform task of installing the CLI.

Complete cloudctl

> *Confirm cloudctl complete*
>
> Press to mark completed

Task docker

docker - Docker desktop and CLI tool

The objective is to install and/or verify the Docker command line interface (CLI) docker. For this course of work the docker CLI will only be used view and inspect docker and docker images.

NOTICE: All of the installation links will open a new tab with at the offical Docker site for the selected operating system.

Press the link for the desired operating system and follow the installation instructions.

macOs

Linux

Windows

macOS install

Click this link and follow the offical docker instructions.

Next press this to verify docker installation

Linux install

- 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.

Next press this to verify docker installation

Windows install

Click this link and follow the official docker instructions.

Next press this to verify docker installation

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
```

Hint docker

Perform task of installing the CLI.

Complete docker

> *Confirm docker complete*
>
> Press to mark completed

Task kubectl

kubectl - Kubernetes CLI tool

The objective is to install and/or verify the Kubernetes command line interface (CLI) kubectl. This CLI can be used to communicate with Kubernetes clusters. For this course of work the CLI will only be used to perform a significant portion of the work.

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.

Press the link for the desired operating system and follow the installation instructions.

macOs

Linux

Windows

macOS install

Kubernetes official web site

Use instructions from the official Kubernetes site

(OR)

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-amd64
```

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
```

Next press this to verify kubectl installation

Linux install

Kubernetes official web site

Use instructions from the official Kubernetes site

(OR)

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-amd64
```

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
```

Next press this to verify kubectl installation

Windows

Kubernetes official web site

Use instructions from the official Kubernetes site

(OR)

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-amd64.exe
```

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.

Next press this to verify kubectl installation

Verify the kubectl 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 kubectl

Perform task of installing the CLI.

Complete kubectl

> *Confirm kubectl complete*
>
> Press to mark completed
