Milestone : Setting up application environment

Activity : Install IBM cloud CLI

IBM Cloud CLI provides full management of your IBM Cloud account via command line. Some installation steps described along this guide may need the IBM Cloud Command Line Interface (CLI) available to be performed.

Refer to the [Getting started with the IBM Cloud CLI](https://cloud.ibm.com/docs/cli?topic=cli-getting-started) documentation to install IBM Cloud Command Line Interface in your system.

* [**Creating your IBM Cloud API key**](https://www.ibm.com/docs/en/SSRHPA_cdprod/appsuite/install/ibmcloud/create_cloud_api_key.html)  
  After you installed the IBM Cloud CLI in your system, you need to login in your IBM Cloud account when using the IBM CLI. To do that you need to have a valid IBM Cloud API Key.

**Getting started with IBM Cloud Shell.**

1. Before you begin. Depending on your IBM Cloud® account type, access to certain resources might be limited or constrained. ...
2. Run the installation command. ...
3. Verify the installation. ...
4. Install CLI plug-ins and tools. ...
5. Configure your environment. ...
6. Next steps.

# Installing the tools and plug-ins manually

You can manually install the IBM Cloud® Command Line Interface and other plug-ins and tools for developing applications for IBM Cloud.

## Before you begin

* Install the stand-alone [IBM Cloud CLI](https://cloud.ibm.com/docs/cli?topic=cli-install-ibmcloud-cli#install-ibmcloud-cli) to get support for installing command line plug-ins for IBM Cloud.
* Install the [curl](https://curl.haxx.se/download.html) command for downloading packages through the command line.

## Installing Docker

To run and debug apps locally, install [Docker](https://www.docker.com/get-started" \t "_blank).

## Installing the Kubernetes command line tool

To view a local version of the Kubernetes dashboard, and to deploy apps into your clusters, install the [Kubernetes command line tool](https://kubernetes.io/docs/tasks/tools/install-kubectl/" \t "_blank) for your platform:

* Mac:
* curl --progress-bar -LO https://storage.googleapis.com/kubernetes-release/release/$(curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt)/bin/darwin/amd64/kubectl
* Linux™:
* curl --progress-bar -LO https://storage.googleapis.com/kubernetes-release/release/$(curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt)/bin/linux/amd64/kubectl
* Windows™:

curl -LO https://storage.googleapis.com/kubernetes-release/release/v1.7.0/bin/windows/amd64/kubectl.exe

The prefix for running commands by using the Kubernetes command line tool is kubectl. For more information, see [Setting up the CLI and API](https://cloud.ibm.com/docs/containers?topic=containers-cs_cli_install).

## Installing IBM Cloud Object Storage CLI plug-in

The IBM Cloud Object Storage plug-in extends the IBM Cloud command line interface (CLI) with an API wrapper for working with Object Storage resources.

* To install the IBM Cloud Object Storage plug-in, run the following command:
* ibmcloud plugin install cloud-object-storage

For more information, see the [IBM Cloud Object Storage command reference](https://cloud.ibm.com/docs/cloud-object-storage?topic=cloud-object-storage-cli-plugin-ic-cos-cli).

## Installing IBM Cloud Container Registry CLI plug-in

You can use the container-registry CLI plug-in to set up your own image namespace in an IBM-hosted, and managed, private registry. Where you can store and share Docker images with all users in your IBM Cloud account.

* To install the IBM Cloud® Container Registry plug-in, run the following command:
* ibmcloud plugin install container-registry

For more information, see the [IBM Cloud® Container Registry command reference](https://cloud.ibm.com/docs/Registry?topic=container-registry-cli-plugin-containerregcli).

## Installing IBM Cloud Kubernetes Service CLI plug-in

To create and manage Kubernetes clusters in IBM Cloud® Kubernetes Service:

* To install the Kubernetes Service plug-in, run the following command:
* ibmcloud plugin install container-service

For more information, see the [Kubernetes Service command reference](https://cloud.ibm.com/docs/containers?topic=containers-kubernetes-service-cli).

## Installing Helm

Install [Helm](https://helm.sh/docs/), which is a Kubernetes-based package manager.

* Mac and Linux™ users, run the following commands:
* curl -sL https://raw.githubusercontent.com/kubernetes/helm/master/scripts/get | bash
* Windows™ users can download and install the Helm [binary](https://github.com/helm/helm/releases).

## Installing the Cloud Functions CLI plug-in

You can use the IBM Cloud® Functions CLI plug-in to manage your code snippets in actions, bundle actions into packages, and create triggers and rules to enable your actions to respond to events.

To install the Cloud Functions CLI plug-in, run the following command:

ibmcloud plugin install cloud-functions

For more information, see [Installing the Cloud Functions CLI plug-in](https://cloud.ibm.com/docs/openwhisk?topic=openwhisk-cli_install).

## Installing IBM Cloud Schematics CLI plug-in

To create and manage Schematics in IBM Cloud Schematics service:

* To install the IBM Cloud Schematics plug-in, run the following command:
* ibmcloud plugin install schematics

For more information, see the [IBM Cloud Schematics command reference](https://cloud.ibm.com/docs/schematics?topic=schematics-setup-cli).