**Quickstart Guide**

This guide covers how you can quickly get started using Helm.

**Prerequisites**

The following prerequisites are required for a successful and properly secured use of Helm.

1. A Kubernetes cluster
2. Deciding what security configurations to apply to your installation, if any
3. Installing and configuring Helm.

**Install Kubernetes or have access to a cluster**

* You must have Kubernetes installed. For the latest release of Helm, we recommend the latest stable release of Kubernetes, which in most cases is the second-latest minor release.
* You should also have a local configured copy of kubectl.

See the [Helm Version Support Policy](https://helm.sh/docs/topics/version_skew/) for the maximum version skew supported between Helm and Kubernetes.

**Install Helm**

Download a binary release of the Helm client. You can use tools like homebrew, or look at [the official releases page](https://github.com/helm/helm/releases).

For more details, or for other options, see [the installation guide](https://helm.sh/docs/intro/install/).

**Initialize a Helm Chart Repository**

Once you have Helm ready, you can add a chart repository. Check [Artifact Hub](https://artifacthub.io/packages/search?kind=0" \t "_blank) for available Helm chart repositories.

**$** helm repo add bitnami https://charts.bitnami.com/bitnami

Once this is installed, you will be able to list the charts you can install:

**$** helm search repo bitnami

NAME CHART VERSION APP VERSION DESCRIPTION

bitnami/bitnami-common 0.0.9 0.0.9 DEPRECATED Chart with custom templates used in ...

bitnami/airflow 8.0.2 2.0.0 Apache Airflow is a platform to programmaticall...

bitnami/apache 8.2.3 2.4.46 Chart for Apache HTTP Server

bitnami/aspnet-core 1.2.3 3.1.9 ASP.NET Core is an open-source framework create...

**#** ... and many more

**Install an Example Chart**

To install a chart, you can run the helm install command. Helm has several ways to find and install a chart, but the easiest is to use the bitnami charts.

**$** helm repo update *# Make sure we get the latest list of charts*

**$** helm install bitnami/mysql --generate-name

NAME: mysql-1612624192

LAST DEPLOYED: Sat Feb 6 16:09:56 2021

NAMESPACE: default

STATUS: deployed

REVISION: 1

TEST SUITE: None

NOTES: ...

In the example above, the bitnami/mysql chart was released, and the name of our new release is mysql-1612624192.

You get a simple idea of the features of this MySQL chart by running helm show chart bitnami/mysql. Or you could run helm show all bitnami/mysql to get all information about the chart.

Whenever you install a chart, a new release is created. So one chart can be installed multiple times into the same cluster. And each can be independently managed and upgraded.

The helm install command is a very powerful command with many capabilities. To learn more about it, check out the [Using Helm Guide](https://helm.sh/docs/intro/using_helm/)

**Learn About Releases**

It's easy to see what has been released using Helm:

**$** helm list

NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION

mysql-1612624192 default 1 2021-02-06 16:09:56.283059 +0100 CET deployed mysql-8.3.0 8.0.23

The helm list (or helm ls) function will show you a list of all deployed releases.

**Uninstall a Release**

To uninstall a release, use the helm uninstall command:

**$** helm uninstall mysql-1612624192

release "mysql-1612624192" uninstalled

This will uninstall mysql-1612624192 from Kubernetes, which will remove all resources associated with the release as well as the release history.

If the flag --keep-history is provided, release history will be kept. You will be able to request information about that release:

**$** helm status mysql-1612624192

Status: UNINSTALLED

...

Because Helm tracks your releases even after you've uninstalled them, you can audit a cluster's history, and even undelete a release (with helm rollback).

**Reading the Help Text**

To learn more about the available Helm commands, use helm help or type a command followed by the -h flag:

**$** helm get -h