

Helm

- Helm helps you manage Kubernetes applications — Helm Charts help you define, install, and upgrade even the most complex Kubernetes application
- Helm is a graduated project in the [CNCF](#) and is maintained by the [Helm](#)

The Purpose of Helm

Helm is a tool for managing Kubernetes packages called *charts*

1. Create new charts(Helm) from scratch
2. Package charts(Helm) into chart archive (tgz) files
3. Interact with chart repositories where charts are stored
4. Install and uninstall charts into an existing Kubernetes cluster
5. Manage the release cycle of charts that have been installed with Helm

For Helm, there are three important concepts:

1. The *chart* is a bundle of information necessary to create an instance of a Kubernetes application.
2. The *config* contains configuration information that can be merged into a packaged chart to create a releasable object.
3. A *release* is a running instance of a *chart*, combined with a specific *config*.

Components

Helm Client is a command-line client for end users

Responsible:

- ❖ Local chart development
- ❖ Managing repositories
- ❖ Managing releases
- ❖ Interfacing with the Helm library
 - Sending charts to be installed
 - Requesting upgrading or uninstalling of existing releases
- The Helm client and library is written in the Go programming language.

