

Helm Install (V2.12.1)

Helm helps you manage Kubernetes applications — Helm Charts help you define, install, and upgrade even the most complex Kubernetes application.

Install Helm binary in local:

Follow the steps to install helm in local

Note: Ansible playbook is created to install : https://bitbucket.asia.essilor.group/projects/SCM/repos/playbooks/browse/helm_install

1. Download helm binary based on the system(window/linux)
<http://artifactory:80/artifactory/generic-local/helm/helm-v2.13.1-linux-amd64.tar.gz> [Download and extract]
2. `mkdir -p /opt/helm` (for Linux)
3. Set Helm environment variables

```
export HELM_HOME=/opt/helm
export KUBECONFIG=~/.kube/config
```

To be able to use Helm, the server-side component `tiller` needs to be installed on your cluster.

Install Tiller in Kubernetes cluster:

Helm installs the `tiller` service on your cluster to manage charts. Since RKE enables RBAC by default we will need to use `kubectl` to create a `serviceaccount` and `clusterrolebinding` so `tiller` has permission to deploy to the cluster.

- Create the `ServiceAccount` in the `kube-system` namespace.
- Create the `ClusterRoleBinding` to give the `tiller` account access to the cluster.
- Finally use `helm` to install the `tiller` service

```
kubectl -n kube-system create serviceaccount tiller
```

```
kubectl create clusterrolebinding tiller --clusterrole=cluster-admin --serviceaccount=kube-system:tiller
```

```
helm init --service-account tiller --tiller-image artifactory.asia.essilor.group/essilor/helm-tiller:latest
```

Run the following command to validate Helm can talk to the `tiller` service:

helm version

expected output:

```
Client: &version.Version{SemVer:"v2.12.1", GitCommit:"02a47c7249b1fc6d8fd3b94e6b4babf9d818144e",
GitTreeState:"clean"}
```

```
Server: &version.Version{SemVer:"v2.12.1", GitCommit:"02a47c7249b1fc6d8fd3b94e6b4babf9d818144e",
GitTreeState:"clean"}
```

References:

<https://helm.sh/docs/intro/install/>

<https://www.rancher.co.jp/docs/rancher/v2.x/en/installation/ha/helm-init/>