Basic of Helm

Helm is an application package manager for Kubernetes, which coordinates the download, installation, and deployment of apps. Helm charts are the way by which it is possible to define an application as a collection of related Kubernetes resources.

Installing Helm

Continue Using The Same Terminal

- Helm has an installer script that will automatically download the latest version and install it locally.

```
curl https://raw.githubusercontent.com/helm/helm/main/scripts/get-helm-3 | bash
```

From the Binary Releases

```
root@ip-10-0-0-134:/home/ubuntu/ workspace/course# curl https://raw.githubusercontent.com/helm/helm/main/scripts/get-helm-3 | bash
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 11345  100 11345    0     0  87352      0 --:--:-- --:--:-- --:--:-- 87945
Downloading https://get.helm.sh/helm-v3.11.2-linux-amd64.tar.gz
Verifying checksum... Done.
Preparing to install helm into /usr/local/bin
helm installed into /usr/local/bin/helm
root@ip-10-0-0-134:/home/ubuntu/ workspace/course#
```

- Verify the helm installation.

```
helm version
```

```
root@ip-10-0-0-134:/home/ubuntu/ workspace/course# helm version
version.BuildInfo{Version:"v3.11.2", GitCommit:"912ebc1cd10d38d340f048efaf0abda047c3468e", GitTreeState:"clean", GoVersion:"go1.18.10"}
root@ip-10-0-0-134:/home/ubuntu/ workspace/course#
root@ip-10-0-0-134:/home/ubuntu/ workspace/course#
```


Limitations of Helm Charts

- Not easy to create and deploy your first helm chart.
- Charts are also an extra piece of code that needs to be managed which includes the overhead to manage, maintain, and store in a chart repository.
- Maintaining charts alone may not be a significant issue, but using charts managed by others can be as it can contain security risks.

Reference