

06 Helm (Package Manager for kubernetes)

Helm Charts → bundle of YAML files. You can create your own Helm Charts with Helm and push them to some repository.

Helm is also a templating engine. So we can define a common blueprint and the dynamic values are replaced by placeholders.

This also makes possible for same application across different environments, i.e., development, staging and production.

Directory structure of Helm Chart

Chart.yaml → Info about chart

values.yaml → values for the template files

charts/ → chart dependencies

templates/ → the actual template files

Release Management

Helm also keeps track of all chart executions. Changes are applied to existing deployment instead of creating a new one.

helm install [chart-name]

helm upgrade [chart-name]

helm rollback [chart-name]