

Helm

Package manager for Kubernetes

To package YAML files and distribute them in public and private repositories

→ Use Case

- # Helm Charts
- # Templating Engine
- # Release management

Sanjay 

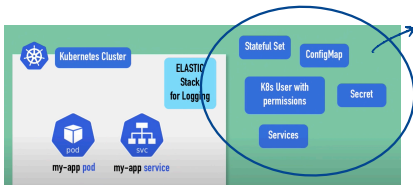
HELM Charts

Bundle of YAML files $\xrightarrow{\text{is}}$ HELM Chart



Download Helm Chart $\xleftarrow{\hspace{1cm}}$ Helm Repository
(public or private)

Organization
repos

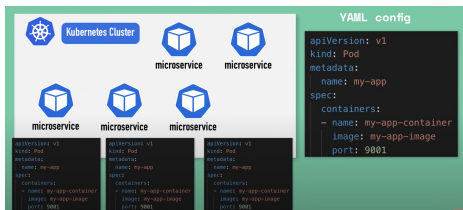


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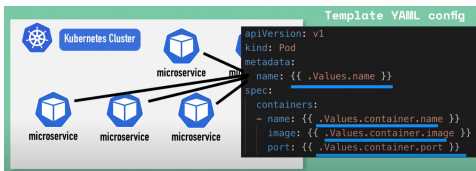
For Example, if you need to install ELK on your K8 cluster, you don't need to do it from scratch. Just download helm chart (public helm repo) and then install it with a single click.

Templating Engine

When you deploy a service on K8, you need to setup a YAML config which is very repetitive if you are having many services



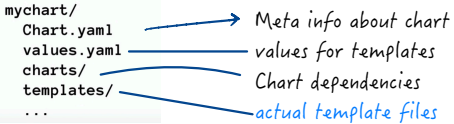
merged into
one single file



- A blueprint of services YAML
- Dynamic values are replaced with placeholders

↓
{{Values}}

Helm Chart Structure



Release Management

- # Keep Track of all chart execution
- # Changes are applied in existing deployment
- # Handling Rollback



Helm Client



Server (Tiller)

```
helm install <chart>  
helm upgrade <new_version_chart>
```

Save all charts at server
Upgrade when asked



Too Much Power inside
K8 cluster