Sessão 04: Aula 10 - Função lookup

https://helm.sh/docs/chart_template_guide/functions_and_pipelines/#using-the-lookup-function

A função lookup é usada para pesquisar recursos em um cluster em execução.
A sintaxe é lookup apiVersion kind namespace name
Onde namespace e name são opcionais

Comportamento	
Função de pesquisa	
kubectl get pod mypod -n mynamespace	lookup "v1" "Pod" "mynamespace" "mypod"
kubectl get pods -n mynamespace	lookup "v1" "Pod" "mynamespace" ""
kubectl get pods --all-namespaces	lookup "v1" "Pod" "" ""
kubectl get namespace mynamespace	lookup "v1" "Namespace" "" "mynamespace"
kubectl get namespaces	lookup "v1" "Namespace" "" ""

Instalar o nginx como ingress

```
kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-v1.1.0/deploy/static/provider/cloud/deploy.yaml
```

Visualizar recursos do Nginx

```
kubectl get all -n ingress-nginx
```

Visualizar informações do service

```
kubectl edit service -n ingress-nginx ingress-nginx-controller
```

configmap.yaml

```yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: {{ .Release.Name }}-configmap
data:
  ServiceIp: {{ (lookup "v1" "Service" "ingress-nginx" "ingress-nginx-
controller").spec.clusterIP }}
```

Instalar chart

```
helm install --debug  lookup ./meuchart
```

configmap.yaml

```yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: {{ .Release.Name }}-configmap
data:
  {{- range $index, $pod := (lookup "v1" "Pod" "ingress-nginx" "").items }}
  pod: {{ $pod.metadata.name }}
  {{ end }}
```

Reinstalando chart

```
helm uninstall lookup && helm install --debug lookup ./mychart
```

configmap.yaml

```yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: {{ .Release.Name }}-configmap
data:
  {{- if (lookup "v1" "Service" "ingress-nginx" "ingress-nginx-controller")}}
  lookup: "Serviço existe"
  {{- end }}
```

Reinstalando chart

```
helm uninstall lookup && helm install --debug lookup ./meuchart
```

Remover o nginx

```
kubectl delete -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-
v1.1.0/deploy/static/provider/cloud/deploy.yaml
```

Visualizar recursos do Nginx

```
kubectl get all -n ingress-nginx
```

Reinstalando chart

```
helm uninstall lookup && helm install --debug lookup ./meuchart
```

Remover chart

```
helm uninstall lookup
```