Helm

Tạo 1 helm mới

$ helm create <TEN\_CHART>

eg: helm create mynginx

Chart.yaml

|  |
| --- |
| apiVersion: v2  name: mynginx  description: A helm chart to deploy a demo of Nginx hello  type: application  version: 0.1.0 //(Bắt buộc)  appVersion: latest |

$ cd templates/

deployment.yaml

|  |
| --- |
| apiVersion: apps/v1  kind: Deployment  metadata:  name: {{ .Release.Name }}  labels: {{ include "common.labels" . | nindent 6 }}  spec:  replicas: 3  selector:  matchLabels: {{ include "common.labels" . | nindent 8 }}  template:  metadata:  labels: {{ include "common.labels" . | nindent 10 }}  spec:  containers:  - name: {{ .Release.Name }}  image: {{ .values.image }}  ports:  - containerPort: {{ .values.port }} |

\_\_helper.tpl

|  |
| --- |
| {{/\* Common labels \*/}}  {{- define "common.labels" -}}  app: nginx  type: demo  identity\_key: {{ .values.identity\_key }}  {{- end }} |

Check lại cú pháp

$ helm lint ./

* 0 chart failed = ok

$ cd ..

values.yaml

|  |
| --- |
| image: nginxdemos/hello:latest  port: 80  identity\_key: jkhkjdfsf |

$ cd templates/

service.yaml

|  |
| --- |
| apiVersion: v1  kind: Service  metadata:  name: {{ .Release.Name }}  spec:  selector: {{ include "common.labels" . | nindent 6 }}  ports:  metadata:  - protocol: TCP  port: {{ .values.port }}  targetPort: {{ .values.port }} |

$ helm lint ./

* 0 chart failed = ok

Generate thử

$ helm template demo-nginx ./

$ helm template demo-nginx ./ -f values.yaml

Install

$ helm install demo-nginx ./

Check k8s

$ kubectl get all

Thay đổi port

$ echo "port: 8080" > mycustomvalue.yaml

$ helm upgrade demo-nginx ./ -f mycustomvalue.yaml

$ kubectl describe deployment demo-nginx

Cài lại

$ helm uninstall demo-nginx

Đóng gói helm

$ mkdir publish

$ helm package ./demo-nginx/ -d ./publish/

Đẩy lên github

$ helm repo index ./

* index.yaml

github.com/nhtua/charts