





# **Agenda**



**About Helm** 

**Introducing Jsonnet and tools** 

Show me

Q&A

```
kind: Deployment
metadata:
  name: {{ include "service-1.fullname" . }}
  labels
    {{- include "service-1.labels" . | nindent 4 }}
  {{- if not .Values.autoscaling.enabled }}
  replicas: {{ .Values.replicaCount }}
  {{- end }}
   matchLabels:
      {{- include "service-1.selectorLabels" . | nindent 6 }}
  template:
    metadata:
      {{- with .Values.podAnnotations }}
        {{- toYaml . | nindent 8 }}
      {{- end }}
        {{- include "service-1.selectorLabels" . | nindent 8 }}
      {{- with .Values.imagePullSecrets }}
      imagePullSecrets:
       {{- toYaml . | nindent 8 }}
      {{- end }}
      serviceAccountName: {{ include "service-1.serviceAccountName" . }}
      securityContext:
       {{- toYaml .Values.podSecurityContext | nindent 8 }}
       - name: {{ .Chart.Name }}
          securityContext:
           {{- toYaml .Values.securityContext | nindent 12 }}
          image: "{{ .Values.image.repository }}:{{ .Values.image.tag | default .Chart.AppVersion }}"
          imagePullPolicy: {{ .Values.image.pullPolicy }}
           - name: http
              containerPort: 80
              protocol: TCP
          livenessProbe:
            httpGet:
              path: /
              port: http
          readinessProbe:
            httpGet:
              port: http
            {{- toYaml .Values.resources | nindent 12 }}
      {{- with .Values.nodeSelector }}
      nodeSelector:
        {{- toYaml . | nindent 8 }}
      {{- end }}
      {{- with .Values.affinity }}
        {{- toYaml . | nindent 8 }}
      {{- end }}
      {{- with .Values.tolerations }}
      tolerations:
        {{- toYaml . | nindent 8 }}
```



#### **HELM**

- yaml indentation
- string template
- upgrade process
- sharing values across charts (subcharts)



```
local u = import 'utils.libsonnet';
  name:: error 'Name required',
  namespace:: error 'Namespace required',
  env:: if $.namespace != 'dev' then error 'env must be set' else 'europe-west4
  apiVersion: 'apps/v1',
  kind: 'Deployment',
  metadata: {
    name: $.name,
    namespace: $.namespace,
    labels: {
      'app-name': $.name,
      'hashed': u.hashed($.name),
  spec: {
    replicas: 1,
      matchLabels: {
         'app-name': $.name,
      },
      metadata: {
        labels: {
         env: $.env,
         'app-name': $.name,
        },
      spec: {
        securityContext: {},
            name: $.name,
            securityContext: {},
            image: 'nginx:1.16.0',
            imagePullPolicy: 'IfNotPresent',
                name: 'http',
                containerPort: 80,
                protocol: 'TCP',
```

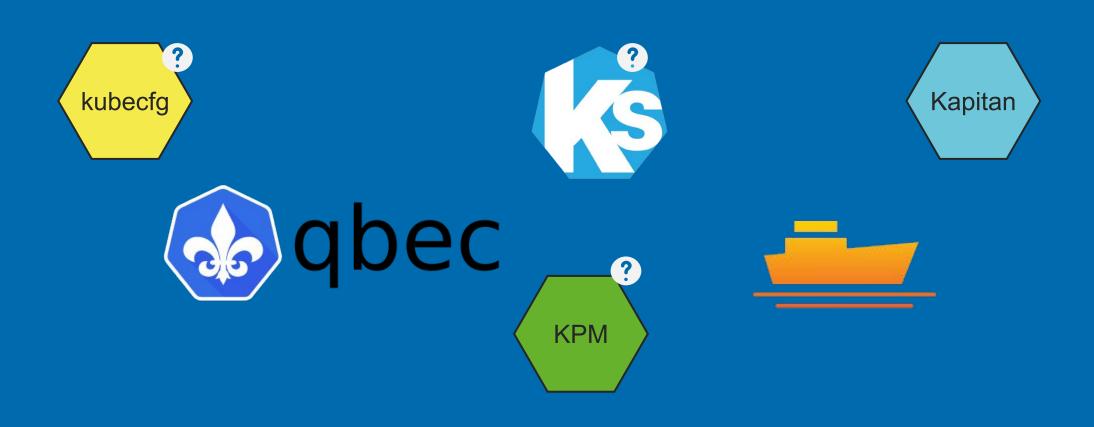


#### **Jsonnet**

- superset of JSON
- a data templating language
- variables, functions, conditionals...



## **Jsonnet and Tools**







### Show me

https://github.com/jzoric/replacing-helm

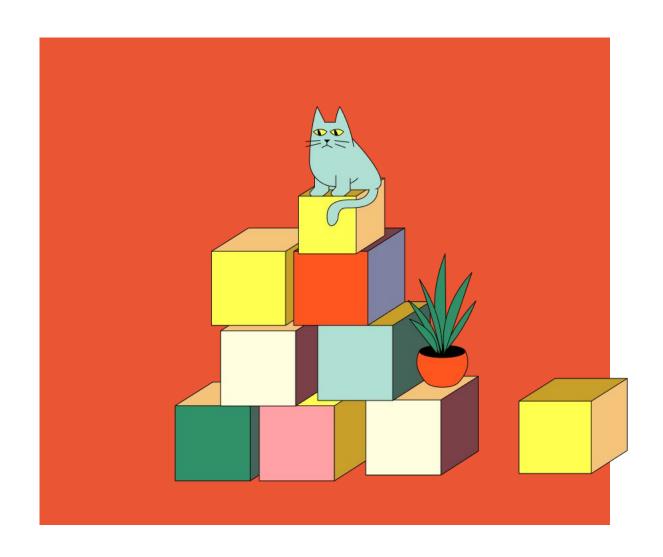












Q&A