

Helm Charts Hands-On

Adfinis**sy**Group

Be smart. Think open source.

HandsOn: Let's write a chart

In this example we will create a chart for glances.

```
helm create glances  
cd glances
```

For this example we make some changes to the default chart generated by helm.

values.yaml

```
image:  
  # path to docker hub container  
  repository: nicolargo/glances  
service:  
  # match ports to EXPOSE from image  
  externalPort: 61208  
  internalPort: 61208
```

templates/deployment.yaml

```
spec:
  template:
    spec:
      containers:
        - name: {{ .Chart.Name }}
          # add environment to container
          env:
            - name: GLANCES_OPT
              value: -w
```

template/NOTES.tpl

```
# change source port for port-forward example
echo "Visit http://127.0.0.1:{{ .Values.service.internalPort }} to use your application"
kubectl port-forward $POD_NAME {{ .Values.service.internalPort }}:{{ .Values.service.internalPort }}
```

deploy to k8s

```
helm install . --name glances-test
```

Best Practices

- Use SemVer 2 to represent version number.
- Indent yaml with 2 spaces (and never tabs).
- Specify a tillerVersion SemVer constraint in you chart.

```
tillerVersion: ">=2.4.0"
```

- use labels so k8s can identify ressources and to expose operators for the purpose of querying

The [official best practices guide](#) has more pointers you should follow

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