// KUBERNETES EINSTIEG:

MIT DER TÜR INS HAUS

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CLOUDOGU GMBH

VERSION: 202007081326-71672FA

```
# Start container with all tools necessary for workshop
$ docker run -it cloudogu/k8s-training
```

https://web.archive.org/web/20180701005535/https://www.docker.com/what-container

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```
# In cloudogu/k8s-training container - Create cluster config
$ k8s-training-auth fdt 2020

# Test connection: no error means success
$ kubectl version
```

```
$ NAME=think-of-something-unique

$ kubectl create deployment $NAME --image=cloudogu/hello-k8s

# Success?
$ k get deployment $NAME
```

```
k expose deployment $NAME --port=80 --target-port 8080 --type=LoadBalancer

# Query EXTERNAL-IP, then open in browser
k get service $NAME
```

https://media.giphy.com/media/z9sFrQMfEME5a/giphy.gif

```
$ k get pod | grep $NAME
```

```
$ k get pod -owide
$ k get node
```

High availability?

```
$ k scale deployment $NAME --replicas=2
$ k get deployment $NAME
$ k get pod | grep $NAME
```

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```
# k get service $NAME
$ EXTERNAL_IP=w.x.y.z
$ while [ 1 ]; do echo $(curl -s http://$EXTERNAL_IP/api/hostName); done
```

```
# New terminal (or use tmux)
$ docker run -it cloudogu/k8s-training
$ k8s-training-auth fdt 2020

# k get service $NAME
$ EXTERNAL_IP=w.x.y.z
$ while [ 1 ]; do echo $(curl -s http://$EXTERNAL_IP/api/hostName); done
```

```
$ k get pod | grep $NAME

$ PODNAME=one-of-your-pods
$ k delete pod $PODNAME

$ k get pod | grep $NAME
```

```
$ EXTERNAL_IP=w.x.y.z
$ while [ 1 ]; do
    echo $(curl -s --connect-timeout 1 -m 1 http://$EXTERNAL_IP/api/appVersion);
  done
# -m  max-time
```

```
# Other terminal
$ k get pod | grep $NAME

$ k set image deploy $NAME hello-k8s=cloudogu/hello-k8s:1.9.1

# Multiple times
$ k get pod | grep $NAME
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