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# Show kubernetes

```
microk8s kubectl get pod -o wide
```

## Show yaml

```
microk8s kubectl get deployment nginx-deployment -o yaml
```

## Show services

```
microk8s kubectl get service
```

## Install ingress

```
minikube addons enable ingress  
kubectl wait --namespace ingress-nginx --for=condition=ready pod --  
selector=app.kubernetes.io/component=controller --timeout=120s
```

## Deploy nginx

```
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  name: nginx-deployment  
spec:  
  selector:  
    matchLabels:  
      app: nginx  
  replicas: 2 # tells deployment to run 2 pods matching the template  
  template:  
    metadata:  
      labels:  
        app: nginx  
    spec:  
      containers:  
      - name: nginx  
        image: nginx:1.14.2  
        ports:
```

```
- containerPort: 80
```

## Proxmox / LXC

```
# Allow running Docker inside LXC
lxc.aa_profile = unconfined
lxc.cap.drop = mac_override sys_time sys_module sys_rawio
```

Note: this affect security!

## Docker

### Data directory

```
/var/lib/docker
/var/lib/docker/vfs/dir
/var/lib/docker/volumes
```

### Show info

```
docker info
```

### Get image from repository

```
docker pull centos
```

### Run image in background

```
docker run -d -e VARIABLE=CONTENT -v /sys/fs/cgroup:/sys/fs/cgroup:ro -p
222:22 centos
--rm remove after
--name INSTANCE_NAME
-it interactive
```

### Show running / images / stats

```
docker ps
```

```
docker ps -a
docker images
docker stats {container}
```

## Return info about container in JSON

```
docker inspect {container}
```

## Enter / Stop / Start Container

```
docker attach {container}
docker stop {container}
docker start {container}
```

## Map directory

```
-v /home/user:/home/user:ro -u 500:500
```

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