

Section 1. „Introduction to Container Orchestration”

Commands shown in this Lecture require a working Docker environment installed on Development Host. Docker installation Lectures are located in Section 2 **Docker Deep Dive**.
Commands used:

```
$ docker run --rm -it --name python-dev -v ${PWD}:/app -p 8001:8000 python:3 /bin/bash
```

```
# cd /app
```

```
# pip install Django
```

```
# django-admin startproject mysite
```

```
# python manage.py runserver 0.0.0.0:8000
```

Open Web Browser on Development Host with **localhost:8001**. Substitute **localhost** with Docker Machine IP Address, if necessary.

```
# exit
```

```
$ kubectl run webserver --image nginx
```

```
$ kubectl get deployment
```

```
$ kubectl delete deployment webserver
```

```
$ kubectl apply -f  
https://k8s.io/examples/application/deployment.yaml
```

```
$ kubectl describe deployment nginx-deployment
```

```
$ kubectl apply -f  
https://k8s.io/examples/application/deployment-update.yaml
```

```
$ kubectl describe deployment nginx-deployment
```

```
$ kubectl apply -f  
https://k8s.io/examples/application/deployment-scale.yaml
```

```
$ kubectl describe deployment nginx-deployment
```

```
$ kubectl delete deployment nginx-deployment
```