Kubernetes: Microservices

with Kim Schlesinger

Commands for Kubernetes: Microservices Handout

Video	Commands

02_01	Linux
	
	```uname -p```
	
	Windows
	
	```winget install minikube```
	
	Mac
	
	```uname -p```
	```brew install minikube```
	
	All Operating Systems
	
	```minikube start -p demo```
	```kubectl get nodes```
	```kubectl get pods -A```

02_02	```minikube delete -p demo```
	```minikube start --network-plugin=cni --cni=calico -p demo```
	```kubectl get pods -A```

02_03	```kubectl apply -f learning-resources-api.yaml```
	```kubectl apply -f echo-server.yaml```
	```kubectl get pods```
	```kubectl get svc```

02_04	```kubectl apply -f frontend-ui.yaml```
	```kubectl -n frontend get pods```
	```kubectl -n frontend get svc```

03_01	No commands in this video

03_02	```kubectl apply -f busybox.yaml```
	```kubectl exec -it busybox -- sh```
	```kubectl get pods -o wide```
	```kubectl get svc```
	
	Once inside your busybox container:
	
	```wget -O- <ip_address>```
	```wget -O- learning-service```
	```wget -O- http://learning-service.default.svc.cluster.local```

03_03	``` kubectl apply -f busybox.yaml kubectl exec -it busybox -- sh kubectl get pods -o wide kubectl get nodes -o wide kubectl get svc ``` Once inside your busybox container: ``` wget -O- <node_ip:30076> wget -O- echo-service wget -O- http://echo-service.default.svc.cluster.local ```
03_04	``` kubectl apply -f frontend-ui.yaml kubectl get svc -n frontend kubectl apply -f busybox-ui.yaml kubectl exec -it busybox-ui -- sh ``` Once inside your busybox-ui container: ``` wget -O- frontend-service wget -O- http://frontend-service.frontend.svc.cluster.local kubectl get pods -n frontend kubectl port-forward <pod_name> 5478 4173 -n frontend ``` Open http://localhost:4173 with your browser.
03_05	No commands in this video
03_06	``` kubectl apply solution.yaml kubectl exec -it busybox -- sh wget -O- nginx-service wget -O- http://nginx-service.challenge.svc.cluster.local ```
04_01	``` kubectl apply -f deny-all.yaml kubectl get networkpolicies kubectl apply -f allow-ingress.yaml kubectl get networkpolicies kubectl apply -f allow-egress.yaml minikube delete -p demo ```

Configuration for the zsh terminal:

.zprofile

eval "$(/opt/homebrew/bin/brew shellenv)"
Add Visual Studio Code (code)
export PATH="$PATH:/Applications/Visual Studio Code.app/Contents/Resources/app/bin"
export PS1=" ☁️ %n:%~ $ "
export PS1="\033[36m\]\u\033[m\] ☁️ \w\033[m\] $ "
export CLICOLOR=1
export LSCOLORS=ExFxBxDxCxegedabagacad