

# Lab4

## Fabian Weisser

1. Anlegen einer kustomization.yaml Datei

2. Hinzufügen eines Secret-Generators mittels:

secretGenerator:

- name: mysql-pass

literals:

- password=password

, mit dem Namen mysql-pass[word] und den Literalen password=[echtes Passwort]

2. Hinzufügen zweier Ressourcen mittels:

resources:

- mysql-deployment.yaml

- wordpress-deployment.yaml

, verwendet die angegebenen .yaml Dateien, welche jeweils einen Service zu einem Deploy haben und eine Volume für den Deploy

3. Erstellen anhand von: kubectl apply -k ./, (nimmt eine kustomization.yaml Datei)

4. Prüfen ob Secrets angelegt wurden: kubectl get secrets

NAME	TYPE	DATA	AGE
default-token-hkkf6	kubernetes.io/service-account-token	3	4d3h
mysql-pass-7tt4f27774	Opaque	1	20s

5. Prüfen ob Volumes persistiert wurden: kubectl get pvc

NAME	STATUS	VOLUME	CAPACITY	ACCESS MODES	STORAGECLASS	AGE
mysql-pv-claim	Bound	pvc-31f22ca0-09fc-11ea-87f3-ce929b7b4f09	20Gi	RWO	default	61s
wp-pv-claim	Bound	pvc-32021c14-09fc-11ea-87f3-ce929b7b4f09	20Gi	RWO	default	61s

6. Prüfen ob alle Pods bereit sind: kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
wordpress-cf66fc94-rqk6n	0/1	ContainerCreating	0	104s
wordpress-mysql-bc9864c58-lxvxn	0/1	ContainerCreating	0	104s

=>

NAME	READY	STATUS	RESTARTS	AGE
wordpress-cf66fc94-rqk6n	1/1	Running	0	11m
wordpress-mysql-bc9864c58-lxvxn	1/1	Running	0	11m

7. Auslesen der IP Adresse mittels: kubectl get services wordpress

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
wordpress	LoadBalancer	10.0.20.8	51.124.136.39	80:31249/TCP	13m

=>

External-IP: 51.124.136.39

8. Öffnen der Webside unter ausgelesener Adresse

**URL:**

<http://51.124.136.39/wp-admin/install.php>

Workloads

Workloads Statuses

100.00%

Deployments

100.00%

Pods

100.00%

Replica Sets

Deployments

Name	Labels	Pods	Age	Images
<a href="#">wordpress</a>	app: wordpress	1 / 1	an hour	wordpress:4.8-apache
<a href="#">wordpress-mysql</a>	app: wordpress	1 / 1	an hour	mysql:5.6

Pods

Name	Node	Status	Restarts	Age
<a href="#">wordpress-cf66fc94-rqk6n</a>	aks-agentpool-21261705-vmss000000	Running	0	an hour
<a href="#">wordpress-mysql-bc9864c58-lvxn</a>	aks-agentpool-21261705-vmss000000	Running	0	an hour

Replica Sets

Name	Labels	Pods	Age	Images
<a href="#">wordpress-cf66fc94</a>	app: wordpress pod-template-hash: cf66fc94 tier: frontend	1 / 1	an hour	wordpress:4.8-apache
<a href="#">wordpress-mysql-bc9864c58</a>	app: wordpress pod-template-hash: bc9864c58 tier: mysql	1 / 1	an hour	mysql:5.6

Discovery and Load Balancing

Services

Name	Labels	Cluster IP	Internal endpoints	External endpoints	Age
<a href="#">wordpress</a>	app: wordpress	10.0.20.8	wordpress:80 TCP wordpress:31249 TCP	<a href="#">51.124.136.39:80</a>	an hour
<a href="#">wordpress-mysql</a>	app: wordpress	None	wordpress-mysql:3306 TCP	-	an hour
<a href="#">kubernetes</a>	component: apiserver provider: kubernetes	10.0.0.1	kubernetes:443 TCP	-	4 days

Config and Storage

Persistent Volume Claims

Name	Status	Volume	Capacity	Access Modes	Storage Class	Age
<a href="#">mysql-pv-claim</a>	Bound	pvc-31f22ca0-09fc-11ea-87f3-ce929b7b4f09	20Gi	ReadWriteOnce	default	an hour
<a href="#">wp-pv-claim</a>	Bound	pvc-32021c14-09fc-11ea-87f3-ce929b7b4f09	20Gi	ReadWriteOnce	default	an hour

Secrets

Name	Type	Age
<a href="#">mysql-pass-7tt4f27774</a>	Opaque	an hour
<a href="#">default-token-hkkf6</a>	kubernetes.io/service-account-token	4 days

## GitRepo-Link:

<https://github.com/99818fhwn/softwareDeployment/tree/master/Lab4>