1 Kubernetes Yaml Templates   Cloud

- PDF Link: kubernetes-yaml-templates.pdf, Category: Cloud

- Blog URL: https://cheatsheet.dennyzhang.com/kubernetes-yaml-templates

- Related posts: Kubectl CheatSheet, Kubernetes Yaml, #denny-cheatsheets

File me Issues or star this repo.

1.1 Pod

Yaml	Summary
pod/pod-dummy.yaml	Start a dummy pod with a dead sleep loop
pod/pod-nginx.yaml	Start a pod of sample app(nginx)
pod/pod-initcontainer-sysctl.yaml	Use initContainer to run sysctl, when starting a Pod
pod/pod-healthcheck-nginx.yaml	Start pod with tcp and http healthcheck
pod/pod-secrets.yaml	Pod use secrets as either volumes or environment variables
pod/pod-gitclone.yaml	Pod: use initContainer as sidecar to web host a git repo
pod/pod-hostaliases.yaml	Pod: add alias to /etc/hosts
pod/pod-serviceaccount.yaml	Start pod with serviceaccount, instead of default serviceaccount
pod/pod-handlers.yaml	Pod's events whenever it get started or stoppped
Reference	Link: kubectl cheatsheet

1.2 Volume

Yaml	Summary
volume/volume-manual-pv.yaml	Create pv first, then pvc
volume/volume-mount-localpath.yaml	Mount a local folder to pods
volume/volume-emptydir.yaml	Create a empty folder, then mount to pods
volume/volume-ebs.yaml	Mount EBS volume to pod running in amazon instance with the same AZ
volume/volume-nfs.yaml	Create nfs pv
volume/volume-gcePersistentDisk.yaml	Mount GCE disk to pod running in amazon instance with the same AZ
volume/volume-digitalocean.yaml	Create DigitalOcean volume for your kubernetes cluster in DigitalOcean
Reference	Link: kubectl cheatsheet, Link: volumes examples

1.3 Service

Yaml	Summary
service/service-loadbalancer.yaml	Service: loadbalancer
service/service-nodeport.yaml	Service: nodeport
service/service-ingress.yaml	Service: ingress
service/service-clusterip-nginx.yaml	Service: nginx with clusterip
service/service-cassandra.yaml	Service: cassandra
Reference	Link: kubectl cheatsheet

1.4 Configmap/Envs

Yaml	Summary
config/pod-configmap.yaml	Create configmap from file, then use it as a pod volume
config/pod-environment-var.yaml	Start a pod passing environment variables
config/pod-env-metada.yaml	Expose metadata to pods
config/configmap-plaintext.yaml	Define configmap with plain text

1.5 Security - RBAC

Yaml	Summary
rbac/serviceaccount-default.yaml	Serviceaccount: basic usage
rbac/rbac-default.yaml	Serviceaccount: concret example
Reference	Link: kubectl cheatsheet

1.6 Security - PodSecurityPolicy

Yaml	Summary
podsecurity/securitycontext-user.yaml	Configure userid, at both pod and container levels
podsecurity/podsecurity-privileged.yaml	Create pod security with privileged access
podsecurity/podsecurity-restricted.yaml	Create pod security with restricted access, then apply it later
podsecurity/podsecurity-enforce.yaml	Enforce policy security by defining role and cluster role
podsecurity/podsecurity-advanced.yaml	A more complicated definition of pod security policy
podsecurity/podsecurity-example.yaml	A full example with everything included
Links	Link: kubectl cheatsheet

1.7 Security - NetworkPolicy

Yaml	Summary
networksecurity/networksecurity-denyall-ingress.yaml	Allow all ingress
networksecurity/networksecurity-allowall-ingress.yaml	Deny all ingress
networksecurity/networksecurity-denyall.yaml	Deny all ingress and egress
networksecurity/networksecurity-pod.yaml	Whitelist traffic control
networksecurity/networksecurity-complicated.yaml	A comprehensive network policy example
networksecurity/networksecurity-port.yaml	Allow TCP 443 from one namespace
networksecurity/networksecurity-deny-othernamespaces.yaml	Deny all ingress traffic from other namespaces
networksecurity/networksecurity-denyegress-exceptdns.yaml	Deny all egress traffic except DNS
Reference	Link: kubectl cheatsheet, GitHub: kubernetes-network-policy-rec

1.8 Quota & Limits

Yaml	Summary
quota/limitrange-pvc-size.yaml	LimitRange: PVC size
quota/limitrange-pvc-cumulative-size.yaml	ResourceQuota: pvc count and storage size
quota/limitrange-mem-size.yaml	LimitRange: Pod ram usage. Then apply it to namespace
Reference	Link: kubectl cheatsheet

1.9 Deployment

Yaml	Summary
deployment/deployment-nginx.yaml	Deploy nginx with 2 replicas
deployment/deployment-mysql.yaml	Deploy mysql
Reference	Link: kubectl cheatsheet

1.10 Statefulset

Yaml	Summary
statefulset/statefulset-nginx.yaml	Statefulset: nginx
statefulset/statefulset-single-mysql	Statefulset: mysql
statefulset/statefulset-replicated-cassandra.yaml	Statefulset: single cassandra
statefulset/statefulset-replicated-mysql	Statefulset: cassandra with replicas
Reference	Link: kubectl cheatsheet

1.11 Jobs & CronJob

Yaml	Summary
job/job-affinity.yaml	Deploy a job with node affinity

1.12 HorizontalPodAutoscaler

Yaml	Summary
hpa/hpa-nginx.yaml	Deploy a horizontal pod autoscaler for nginx deployment

1.13   Adhoc

Yaml	Summary
namespace/ns-dummy.yaml	Create a dummy namespace

1.14   Related Tools

Name	Summary
GitHub: kubernetes-sigs/kustomize	Customization of kubernetes YAML configurations

1.15   More Resources

License: Code is licensed under MIT License.