1 Kubernetes Yaml Templates   KUBERNETES

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

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

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Note: for each yaml in below, you can find a related URL at the top.
e.g, here is an example

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-handlers.yaml	Pod's events whenever it get started or stoppped
Links	link: kubernetes cheatsheet

1.2 Configmap/Envs

Yaml	Summary
config/pod-environment-var.yaml	Start a pod passing environment variables
config/pod-env-metada.yaml	Expose metadata to pods

1.3 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
Links	link: kubernetes cheatsheet, link: volumes examples

1.4 Security - RBAC

Yaml	Summary
rbac/serviceaccount-default.yaml	Serviceaccount: basic usage
Links	link: kubernetes cheatsheet

1.5 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
Links	link: kubernetes cheatsheet

1.6   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
Links	link: kubernetes cheatsheet
Links	GitHub: kubernetes-network-policy-recipes

1.7   Quota & Limits

Yaml	Summary
quota/limitrange-pvc-size.yaml	LimitRange: PVC size
quota/limitrange-pvc-cumulative-size.yaml	ResourceQuota: pvc count and storage size
Links	link: kubernetes cheatsheet

1.8   Deployment

Yaml	Summary
deployment/deployment-nginx.yaml	Deploy nginx with 2 replicas
deployment/deployment-mysql.yaml	Deploy mysql
Links	link: kubernetes cheatsheet

1.9   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
Links	link: kubernetes cheatsheet

1.10   Service

Yaml	Summary
service/service-clusterip-nginx.yaml	Service: nginx with clusterip
service/service-cassandra.yaml	Service: cassandra
Links	link: kubernetes cheatsheet

1.11   More Resources

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