

# Kubernetes Yaml Templates

## KUBERNETES

- PDF Link: [kubernetes-yaml-templates.pdf](#), Category: [kubernetes](#)
- Blog URL: <https://cheatsheet.dennyzhang.com/kubernetes-yaml-templates>
- Related posts: [Kubectl CheatSheet](#), [#denny-cheatsheets](#)

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## 1.1 Pod

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

## 1.2 Configmap/Envs

Yaml	Summary
<a href="#">config/pod-environment-var.yaml</a>	Start a pod passing environment variables
<a href="#">config/pod-env-metada.yaml</a>	Expose metadata to pods

## 1.3 Volume

Yaml	Summary
<a href="#">volume/volume-manual-pv.yaml</a>	Create pv first, then pvc
<a href="#">volume/volume-mount-localpath.yaml</a>	Mount a local folder to pods
<a href="#">volume/volume-emptydir.yaml</a>	Create a empty folder, then mount to pods
<a href="#">volume/volume-ebs.yaml</a>	Mount EBS volume to pod running in amazon instance with the same AZ
<a href="#">volume/volume-digitalocean.yaml</a>	Create DigitalOcean volume for your kubernetes cluster in DigitalOcean
<a href="#">Links</a>	Link: <a href="#">kubectl cheatsheet</a> , Link: <a href="#">volumes examples</a>

## 1.4 Security - RBAC

Yaml	Summary
<a href="#">rbac/serviceaccount-default.yaml</a>	Serviceaccount: basic usage
<a href="#">Links</a>	Link: <a href="#">kubectl cheatsheet</a>

## 1.5 Security - PodSecurityPolicy

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

## 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-othersnamespaces.yaml	Deny all ingress traffic from other namespaces
networksecurity/networksecurity-denyegress-exceptdns.yaml	Deny all egress traffic except DNS
Links	Link: <a href="#">kubectl cheatsheet</a>
Links	GitHub: <a href="#">kubernetes-network-policy-recipes</a>

## 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
quota/limitrange-mem-size.yaml	LimitRange: Pod ram usage. Then apply it to namespace
Links	Link: <a href="#">kubectl cheatsheet</a>

## 1.8 Deployment

Yaml	Summary
deployment/deployment-nginx.yaml	Deploy nginx with 2 replicas
deployment/deployment-mysql.yaml	Deploy mysql
Links	Link: <a href="#">kubectl cheatsheet</a>

## 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: <a href="#">kubectl cheatsheet</a>

## 1.10 Service

Yaml	Summary
service/service-clusterip-nginx.yaml	Service: nginx with clusterip
service/service-nodeport.yaml	Service: nodeport
service/service-ingress.yaml	Service: ingress
service/service-cassandra.yaml	Service: cassandra
Links	Link: <a href="#">kubectl cheatsheet</a>

## 1.11 General

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

## 1.12 Jobs & CronJob

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

## 1.13 More Resources

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