Kompose Compose to Kubernetes

CONCEPTS

Kompose turns a Compose file into Kubernetes manifests; it generates files and never talks to a cluster. Review the output, then apply it with kubectl.

Compose services
↓ convert
Manifests Deployment, Service, PVC
↓ apply
Cluster running pods

Labels under a service's labels: key in the Compose file (kompose.service.type and friends) steer the output without extra flags.

CONVERT

`kompose convert`
Convert compose.yaml in this directory

`kompose convert -f <file>`
Convert a specific Compose file

`kompose -f <a> -f <b> convert`
Merge several files, later wins

`kompose convert -o <path>`
Save to a file or directory

`kompose convert --stdout`
Print objects instead of writing

`kompose convert -n <namespace>`
Set namespace on generated objects

WORKLOADS

`kompose convert --controller deployment`
Generate Deployments

`kompose convert --controller daemonSet`
Generate DaemonSets

`kompose convert --replicas <n>`
Replica count in generated specs

VOLUMES & SECRETS

`kompose convert --volumes persistentVolumeClaim`
Volumes become PVCs (default)

`kompose convert --volumes emptyDir`
Use emptyDir volumes

`kompose convert --volumes hostPath`
Use hostPath volumes

`kompose convert --pvc-request-size <size>`
Storage size of each PVC

IMAGES

`kompose convert --build local`
Build images for build: services

HELM

`kompose convert -c`
Generate a Helm chart

LABELS

kompose.* labels

Label	Effect
`service.type`	nodeport, clusterip, loadbalancer, headless
`service.expose`	Make an Ingress (true or host)
`service.nodeport.port`	Fixed NodePort
`controller.type`	deployment, daemonset, ...
`volume.type`	PVC, emptyDir, hostPath, configMap
`volume.size`	PVC size, e.g. 1Gi
`image-pull-policy`	Always, IfNotPresent, Never
`service.group`	Share one pod

HELP

`kompose --help`
Top-level help

`kompose version`
Print the version