



This is an example cheat sheet, feel free to customize for your own needs by opening https://github.com/zalando-incubator/kubernetes-on-aws/blob/dev/docs/user-guide/kubernetes-cheat-sheet.svg with Inkscape.

Installation & Configuration

pip3 install -U stups installs zkubectl, stups configure stups.example.org might need "sudo"

put in ~/.bashrc

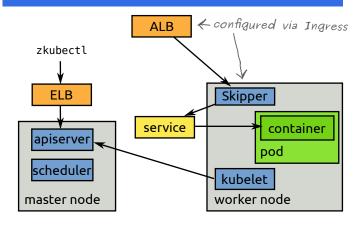
source <(zkubectl completion bash)

put in ~/.zshrc

Cluster Login

zkubectl list shows all available clusters zkubectl list-clusters writes ~/.kube/config zkubectl login CLUSTER_ALIAS zkubectl cluster-info

Architecture



Bootstrapping Deployment Configurations

zkubectl init [DIR] [--from-senza=SENZA_YAML_PATH]
create delivery.yaml and deploy/apply/*
in current folder or DIR (empty or from existing Senza def)

echo "pw" | zkubectl encrypt

encrypt "pw" for usage in Kubernetes secret

Running in Production

Always run at least two replicas to survive cluster updates.

Always set CPU/memory requests.

Always set memory limit.

Use Downwards API and MEM_TOTAL_KB to set JVM max heap.

Creating/Updating Resources

zkubectl apply -f myresource.yaml
zkubectl scale deploy DEPLOY_NAME --replicas=10

zkubectl edit deploy DEPLOY_NAME
opens editor to change YAML

Troubleshooting

zkubectl get deploy get all my application pods zkubectl get pods -l application=APP NAME zkubectl describe pod POD_NAME \leftarrow (e.g. 00M killed) zkubectl get pod POD_NAME -o yaml zkubectl top pod POD_NAME --containers tail my app logs zkubectl logs -f [-c CONTAINER_NAME] POD_NAME zkubectl logtail REGEX_PATTERN [-s TIME]
(or check scalyr.com) $^{
ightarrow}$ zkubectl exec -it POD_NAME [-c CONTAINER_NAME] sh zkubectl port-forward POD NAME [LOCAL PORT:]PORT open Kubernetes Dashboard in browser zkubectl dashboard ← does my svc have endpoints? zkubectl describe svc SVC_NAME \(\) ALB configured? zkubectl describe ingress INGRESS_NAME makes my fan spin zkubectl opsview

Emergency/Manual Access & Cluster Updates

zkubectl emergency-access -i INC-1234 REASON

zkubectl manual-access REASON
zkubectl list-access-requests
zkubectl approve-manual-access USERNAME

zkubectl cluster-update status
zkubectl cluster-update block|unblock
in case of emergency: prevent cluster updates

Resource Types

confiamaps cmdeployments deploy endpoints ep events ev horizontalpodautoscalers hpa ingresses ing jobs limitranges limits namespaces ns nodes nο for databases etc statefulsets < pods po replicasets rs to store DB passwords cronjob secrets € and other credentials serviceaccount sa services SVC thirdpartyresources Zalando specific: platformcredentialssets < declare needed OAuth tokens/clients

Documentation & Help

https://dev.example.org/ use the search!
https://cloud.docs.example.org/ community channels

my-kubernetes-users@example.org official support
#Kubernetes Users HipChat room my-support@example.org