

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.

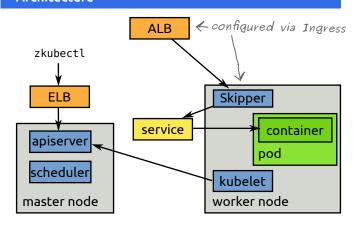
Installation & Configuration

pip3 install -U stups installs zkubectl & zdeploy, stups configure foo.example.org put in ~/.bashrc 🦴 source <(zkubectl completion bash) put in ~/.zshrc source <(zkubectl completion zsh) ←

Cluster Login

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

Architecture



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) test clusters. 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 (or check scalyr.com) ⇒zkubectl exec -it POD NAME 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 https://kube-ops-view.foo.example.org

Bootstrapping Deployment Configurations

create pipeline yaml, zdeploy init [MYDIR] ← deployment yaml and apply/* in current folder or MYDIR echo -n "pw" | base64 | tr -d '\n' | zdeploy encrypt encrypt "pw" for data in Kubernetes secret usage in Kubernetes secret

must be base64 encoded

Running in Production

Always run at least two replicas to survive cluster updates. - better three Always set CPU/memory requests. Always set memory limit. Use Downwards API and MEM_TOTAL_KB to set JVM max heap. Use readinessProbe. \longleftarrow to only get traffic when healthy

Creating/Updating Resources

zkubectl apply -f myresource.yaml Ξ. zkubectl scale deploy DEPLOY NAME --replicas=10 zkubectl edit deploy DEPLOY_NAME opens editor to change YAML

Resource Types

configmaps cmdeployments deploy endpoints ер events ev horizontalpodautoscalers hpa ingresses ina iobs limitranges limits namespaces ns nodes for databases etc statefulsets < pods od replicasets rs to store DB passwords cronjob and other credentials secrets < serviceaccount sa services SVC thirdpartyresources Zalando specific: platformcredentialssets < declare needed OAuth tokens/clients

Documentation & Help

https://kubernetes-on-aws.readthedocs.io/

_ ask here - after kubernetes-users@example.com < checking the docs! #Kubernetes Users HipChat room

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