

Kubernetes interaction for dog lovers – k9s



\$whoami



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It all started with kubectl get pods



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Glossary

- API Overview
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- Well-Known Labels, Annotations and Taints
- Kubernetes API
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- Setup tools
- Command line tool (kubectl)

Viewing and finding resources

```
# Get commands with basic output
                                              # List all services in the namespace
kubectl get services
kubectl get pods --all-namespaces
                                              # List all pods in all namespaces
kubectl get pods -o wide
                                              # List all pods in the current namespace, with more details
kubectl get deployment my-dep
                                              # List a particular deployment
kubectl get pods
                                              # List all pods in the namespace
kubectl get pod my-pod -o vaml
                                              # Get a pod's YAML
# Describe commands with verbose output
kubectl describe nodes my-node
kubectl describe pods my-pod
# List Services Sorted by Name
kubectl get services --sort-by=.metadata.name
# List pods Sorted by Restart Count
kubectl get pods --sort-by='.status.containerStatuses[0].restartCount'
# List PersistentVolumes sorted by capacity
kubectl get pv --sort-by=.spec.capacity.storage
# Get the version label of all pods with label app=cassandra
kubectl get pods --selector=app=cassandra -o \
  jsonpath='{.items[*].metadata.labels.version}'
# Retrieve the value of a key with dots, e.g. 'ca.crt'
kubectl get configmap myconfig \
  -o jsonpath='{.data.ca\.crt}'
# Retrieve a base64 encoded value with dashes instead of underscores.
kubectl get secret my-secret --template='{{index .data "key-name-with-dashes"}}'
```

- Edit this page
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Kubectl autocomplete

BASH ZSH

A note on --all-namespaces

Kubectl context and configuration

Kubectl apply

Creating objects

Viewing and finding resources

Updating resources

Patching resources

Editing resources

Scaling resources

Deleting resources

Interacting with running Pods

Copying files and directories to and from containers

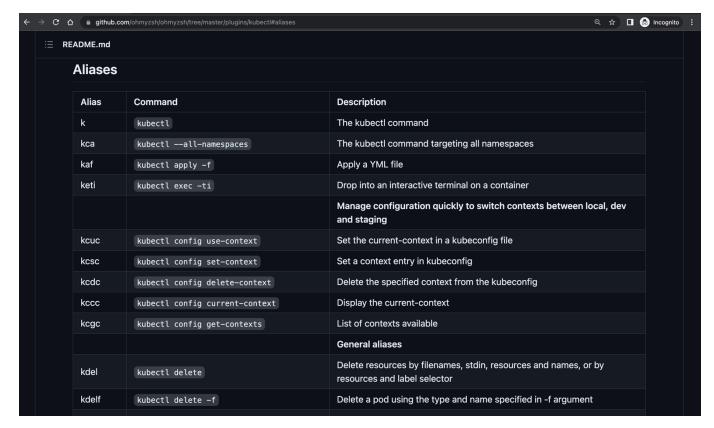
Interacting with Deployments

and Services

Interacting with Nodes and



Thank you, aliases and plugins!





Oh.. My.. k9s!



"K9s is a terminal based UI to interact with your Kubernetes clusters"



Let's see it in action!



k9s cheat sheet

- esc: resource-name = kubectl get resource-name
- esc : po = kubectl get **po**ds
 - 0 = all namespaces
 - return or enter = see the container/s within a pod
 - s = exec into a container
 - I = log
 - f = full screen
 - w = wrap
- shift + f = port-forward
- y = see the object yaml
- ctrl + d = delete an object
- esc : sec = kubectl get **sec**rets
 - x = decode a secret
- esc : ns = kubectl get namespace
- esc : deploy = kubectl get deployment
- esc / = To filter rows and search for an item in the table
- up or down arrow + Spacebar = Select/de-select multiple objects
- s = scale Deployment, ReplicaSet etc
- esc : ctx = kubectl config get-contexts select a context and hit return to start using that context



Thank You!



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