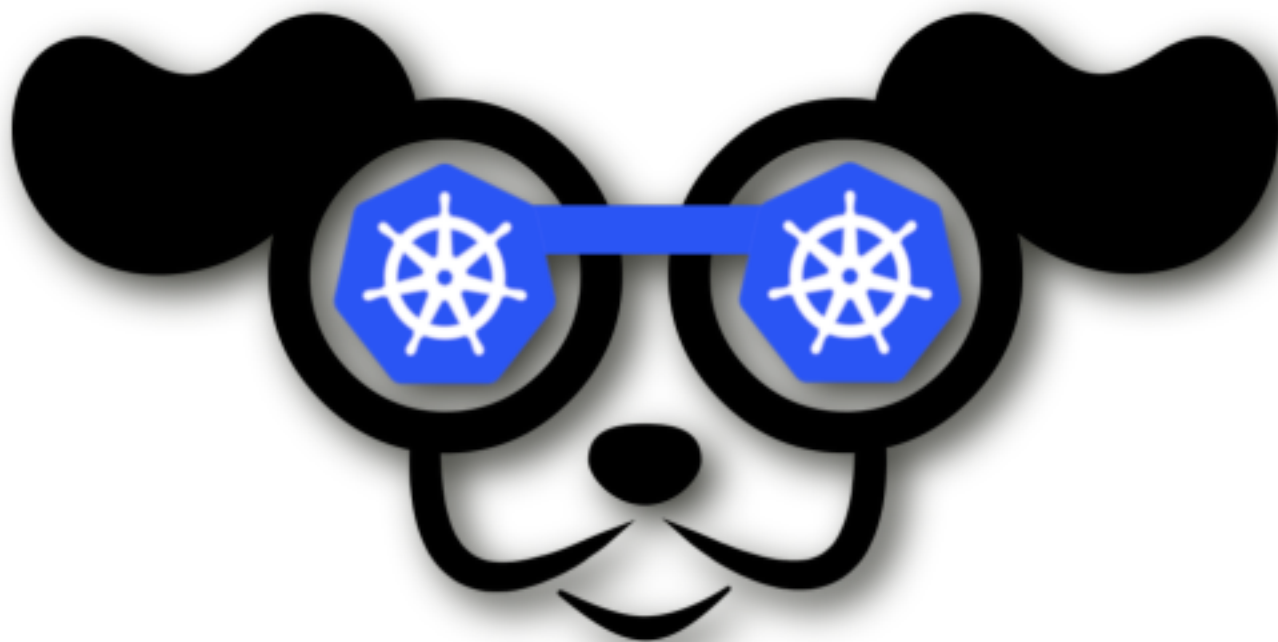


k9s

Kubernetes CLI To Manage Your Clusters In Style!



Who Let The Pods Out?

K9s is a terminal based UI to interact with your Kubernetes clusters. The aim of this project is to make it easier to navigate, observe and manage your deployed applications in the wild. K9s continually watches Kubernetes for changes and offers subsequent commands to interact with your observed resources.

Features

- Information At Your Finger Tips!
 - Tracks in real-time activities of resources running in your Kubernetes cluster.
- Standard or CRD?

- Handles both Kubernetes standard resources as well as custom resource definitions.
- Cluster Metrics
 - Tracks real-time metrics associates with resources such as pods, containers and nodes.
- Power Users Welcome!
 - Provides standard cluster management commands such as logs, scaling, port-forwards, restarts...
 - Define your own command shortcuts for quick navigation via command aliases and hotkeys.
 - Plugin support to extend K9s to create your very own cluster commands.
 - Powerful filtering mode to allow user to drill down and view workload related resources.
- Error Zoom
 - Drill down directly to what's wrong with your cluster's resources.
- Skinnable and Customizable
 - Define your very own look and feel via K9s skins.
 - Customize/Arrange which columns to display on a per resource basis.
- Narrow or Wide?
 - Provides toggles to view minimal or full resource definitions
- MultiResources Views
 - Provides for an overview of your cluster resources via Pulses and XRay views.
- We've got your RBAC!
 - Supports for viewing RBAC rules such as cluster/roles and their associated bindings.
 - Reverse lookup to asserts what a user/group or ServiceAccount can do on your clusters.
- Built-in Benchmarking
 - You can benchmark your HTTP services/pods directly from K9s to see how your application fare and adjust your resources request/limit accordingly.
- Resource Graph Traversals
 - K9s provides for easy traversal of Kubernetes resources and their associated resources.

Sponsor Us!

If you dig this effort and feel K9s is improving your Kubernetes experience and productivity for you or your team, please join our sponsorship program! K9s is complex and demands a

lot of work, by clicking the [Sponsor button](#) you can show your support and appreciation. Alternatively, just simply give us a shoot-out on social as these go a long way in keeping our batteries charged up!

Documentation

- [Installation](#)
- [Commands](#)
- Customizations
 - Feel
 - [K9s](#)
 - [Aliases](#)
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 - [Node Shell](#)
 - Look
 - [Skins](#)
 - [Custom Views](#)
- [Benchmarking](#)
- [RBAC](#)
- [Tutorials](#)

Previews

```

Context: minikube
Cluster: minikube
User: minikube
K9s Rev: dev
K8s Rev: v1.17.3
CPU: 5%
MEM: 17%

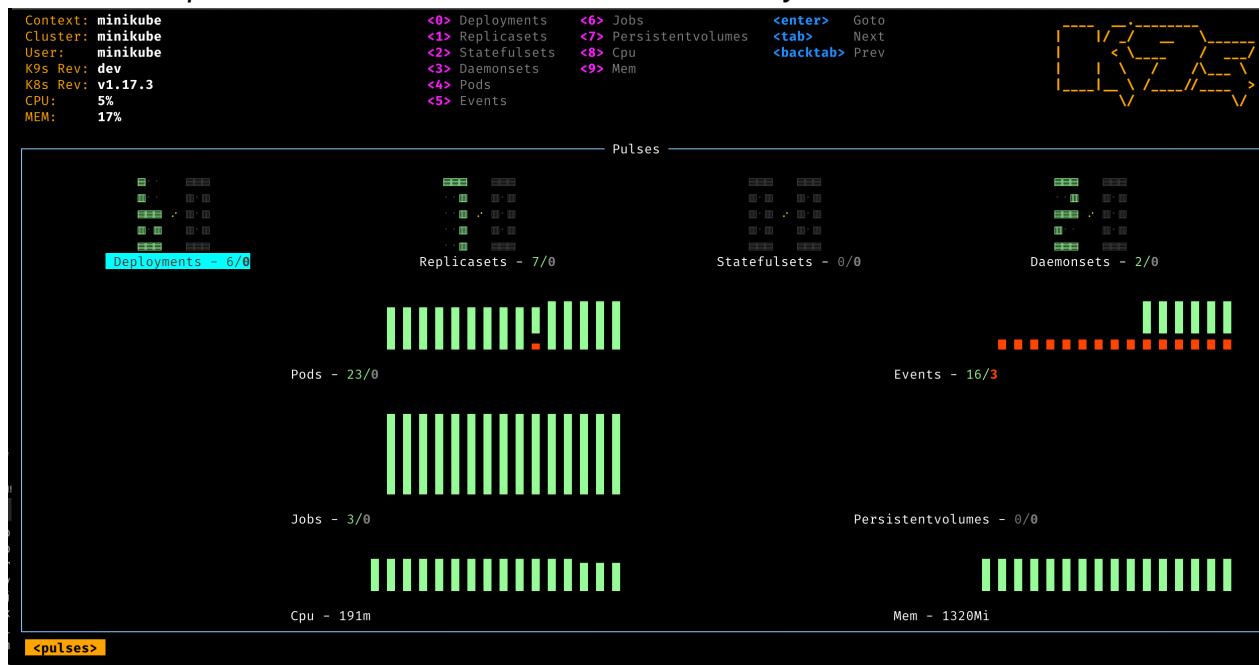
<ctrl-d> Delete
<d> Describe
<e> Edit
<y> YAML

Clusterroles(all)[3] </view>
NAME↑ AGE
system:aggregate-to-view 6d6h
system:public-info-viewer 6d6h
view 6d6h

<clusterrole>
Filter mode activated.

```

- Pulses - A top level dashboard of the state of affairs of your cluster



- XRay - Dig in your cluster resources and view their dependencies

```

Context: minikube
Cluster: minikube
User: minikube
K9s Rev: dev
K8s Rev: v1.17.3
CPU: 6%
MEM: 17%

<0> all
<1> kube-system
<2> default

<a> Attach
<ctrl-d> Delete
<d> Describe
<e> Edit
<ctrl-k> Kill
<l> Logs

<ctrl-j> Logs (jq)
<ctrl-l> Logs <Stern>
<shift-l> Logs Previous
<shift-f> Port-Forward
<s> Shell
<y> YAML

```



```

Xray-Pods(all)[23]
default(10)
├─ hello-1582785780-lsrtcd(3) [0/1]
│   └─ c1
│       └─ default(1)
│           └─ default-token-blk62
├─ hello-1582785840-rq8h5(3) [0/1]
│   └─ c1
│       └─ default(1)
│           └─ default-token-blk62
├─ hello-1582785900-4zbfk(3) [0/1]
│   └─ c1
│       └─ default(1)
│           └─ default-token-blk62
├─ jaeger-5bbc8c887-cmjj7(3) [1/1]
│   └─ default(1)
│       └─ default-token-blk62
├─ jaeger
├─ nginx(3) [1/1]
│   └─ default(1)
│       └─ default-token-blk62
├─ nginx
└─ nginx-6fbbddc48c-5kv5p(3) [1/1]
    └─ default(1)

```

<xray>

- Pods - List out your pods status and resource consumption

```


Context: minikube
Cluster: minikube
User: minikube
K9s Rev: dev
K8s Rev: v1.17.3
CPU: 5%
MEM: 17%

<0> all
<1> kube-system
<2> default

<a> Attach
<ctrl-d> Delete
<d> Describe
<e> Edit
<ctrl-k> Kill
<l> Logs

<ctrl-j> Logs (jq)
<ctrl-l> Logs <Stern>
<shift-l> Logs Previous
<shift-f> Port-Forward
<s> Shell
<y> YAML

```



```

Pods(all)[23]

```

NAMESPACE	NAME	READY	RESTART	STATUS	CPU	MEM	%CPU/R	%MEM/R	%CPU/L	%MEM/L	IP	NODE
default	hello-1582785780-lsrtcd	0/1	0	Completed	n/a	n/a	n/a	n/a	n/a	n/a	172.17.0.12	minikube
default	hello-1582785840-rq8h5	0/1	0	Completed	n/a	n/a	n/a	n/a	n/a	n/a	172.17.0.12	minikube
default	hello-1582785900-4zbfk	0/1	0	Completed	n/a	n/a	n/a	n/a	n/a	n/a	172.17.0.12	minikube
default	jaeger-5bbc8c887-cmjj7	1/1	1	Running	0	7	0	3	0	3	172.17.0.11	minikube
default	nginx	1/1	1	Running	0	4	0	0	0	0	172.17.0.10	minikube
default	nginx-6fbbddc48c-5kv5p	1/1	0	Running	0	2	0	28	0	14	172.17.0.15	minikube
default	nginx-6fbbddc48c-7xn7j	1/1	0	Running	n/a	n/a	n/a	n/a	n/a	n/a	172.17.0.7	minikube
default	nginx-6fbbddc48c-bmqqj	1/1	0	Running	n/a	n/a	n/a	n/a	n/a	n/a	172.17.0.13	minikube
default	nginx-6fbbddc48c-jf944	1/1	0	Running	n/a	n/a	n/a	n/a	n/a	n/a	172.17.0.12	minikube
default	nginx-6fbbddc48c-xwjnb	1/1	0	Running	0	3	0	39	0	19	172.17.0.14	minikube
kube-system	coredns-6955765f44-2pkvx	1/1	1	Running	3	7	3	10	0	4	172.17.0.2	minikube
kube-system	coredns-6955765f44-wr88k	1/1	1	Running	3	7	3	10	0	4	172.17.0.3	minikube
kube-system	etcd-minikube	1/1	1	Running	20	29	0	0	0	0	192.168.64.15	minikube
kube-system	fluentd-elasticsearch-vnt25	1/1	1	Running	1	51	1	25	0	25	172.17.0.5	minikube
kube-system	kube-apiserver-minikube	1/1	1	Running	47	227	18	0	0	0	192.168.64.15	minikube
kube-system	kube-controller-manager-minikube	1/1	2	Running	20	35	10	0	0	0	192.168.64.15	minikube
kube-system	kube-proxy-sqs9s	1/1	1	Running	0	14	0	0	0	0	192.168.64.15	minikube
kube-system	kube-scheduler-minikube	1/1	2	Running	4	12	4	0	0	0	192.168.64.15	minikube
kube-system	metrics-server-6754dbc9df-t8x2n	1/1	1	Running	0	13	0	0	0	0	172.17.0.8	minikube
kube-system	metrics-server-6754dbc9df-tz7kh	1/1	1	Running	0	10	0	0	0	0	172.17.0.6	minikube
kube-system	storage-provisioner	1/1	2	Running	0	14	0	0	0	0	192.168.64.15	minikube
kubernetes-dashboard	dashboard-metrics-scraper-7b64584c5c-Stjsh	1/1	1	Running	0	5	0	0	0	0	172.17.0.4	minikube
kubernetes-dashboard	kubernetes-dashboard-79d9cd965-wb2vv	1/1	1	Running	0	11	0	0	0	0	172.17.0.9	minikube

<pulses> <pod>

- Logs - View and interact with your container logs

```

Context: minikube
Cluster: minikube
User: minikube
K9s Rev: dev
K8s Rev: v1.17.3
CPU: 5%
MEM: 17%

```

<esc> Back
 <c> Clear
 <f> FullScreen
 <ctrl-s> Save
 <s> Toggle AutoScroll
 <w> Toggle Wrap

Logs(default/nginx)

Autoscroll: On FullScreen: Off Wrap: Off

```

2020-02-28T04:21:56.849024713Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.849405412Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.849710094Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.849975726Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.850655441Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.850674065Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.850943668Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.851318883Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.851564522Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.852438245Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.852467232Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.852674971Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.853326657Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.85333828Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.853553185Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.853966201Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.854978974Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.854989669Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.854993863Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.85528333Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.855526606Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.855872693Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.856211169Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.856538277Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.856846529Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.857414857Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"
2020-02-28T04:21:56.857513637Z 172.17.0.1 - - [28/Feb/2020:04:21:56 +0000] "GET / HTTP/1.1" 200 612 "-" "hey/0.0.1" "-"

```

<pulses> <pod> <logs>

- RBAC - View the who/what/how of authorizations on your cluster

```

Context: minikube
Cluster: minikube
User: minikube
K9s Rev: dev
K8s Rev: v1.17.3
CPU: 5%
MEM: 17%

```

<ctrl-d> Delete
 <e> Edit

Rbac(system:aggregate-to-edit)[37]

NAME	APIGROUP	GET	LIST	WATCH	CREATE	PATCH	UPDATE	DELETE	DEL-LIST
configmaps		x	x	x	/	/	/	/	/
endpoints		x	x	x	/	/	/	/	/
persistentvolumeclaims		x	x	x	/	/	/	/	/
pods		x	x	x	/	/	/	/	/
attach		x	x	x	/	/	/	/	/
exec		x	x	x	/	/	/	/	/
portforward		x	x	x	/	/	/	/	/
proxy		x	x	x	/	/	/	/	/
replicationcontrollers		x	x	x	/	/	/	/	/
scale		x	x	x	/	/	/	/	/
secrets		x	x	x	/	/	/	/	/
serviceaccounts		x	x	x	/	/	/	/	/
services		x	x	x	/	/	/	/	/
proxy		x	x	x	/	/	/	/	/
daemonsets	apps	x	x	x	/	/	/	/	/
deployments	apps	x	x	x	/	/	/	/	/
rollback	apps	x	x	x	/	/	/	/	/
scale	apps	x	x	x	/	/	/	/	/
replicasets	apps	x	x	x	/	/	/	/	/
scale	apps	x	x	x	/	/	/	/	/
statefulsets	apps	x	x	x	/	/	/	/	/
scale	apps	x	x	x	/	/	/	/	/
horizontalpodautoscalers	autoscaling	x	x	x	/	/	/	/	/
cronjobs	batch	x	x	x	/	/	/	/	/
jobs	batch	x	x	x	/	/	/	/	/
daemonsets	extensions	x	x	x	/	/	/	/	/
deployments	extensions	x	x	x	/	/	/	/	/
rollback	extensions	x	x	x	/	/	/	/	/

<clusterrole> <rules>

ATTA Girls/Boys!

K9s sits on top of many open source projects and libraries. Our *sincere* appreciations to all the OSS contributors that work nights and weekends to make this project a reality!

Get In Touch!

- [Fernand Galiana](#)
- [@kitesurfer](#)
- [K9s Repo](#)
- [K9ers Slack](#)
- [K9ers Slack Invite](#)



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