K9s installation.

What is K9s in Kubernetes?

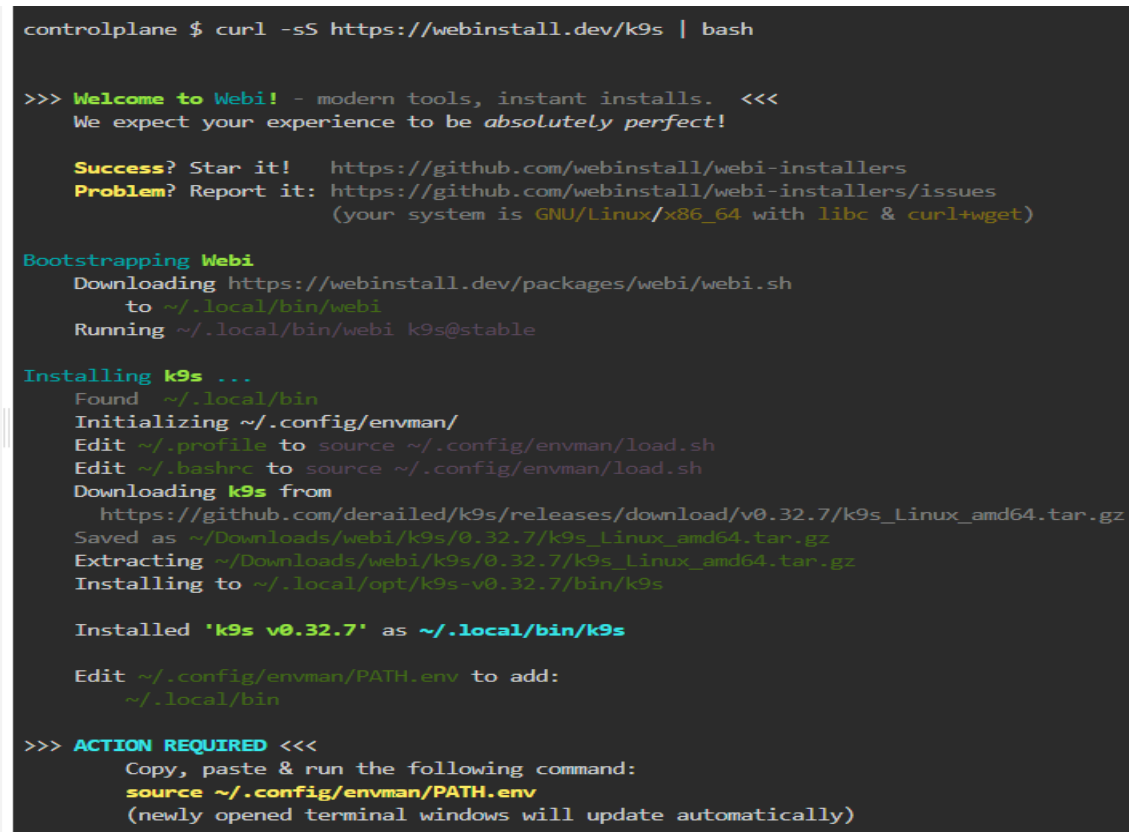
K9s is a terminal-based UI for managing Kubernetes clusters efficiently. It provides a real-time view of your cluster resources and allows you to interact with Kubernetes workloads using simple keyboard shortcuts.

Why Use K9s?

1. **Faster Cluster Management** – No need to type long kubectl commands.
2. **Real-time Monitoring** – Watch pods, deployments, logs, and events in real time.
3. **Better Navigation** – Quickly switch between different Kubernetes resources.
4. **Efficient Debugging** – Stream logs, exec into containers, and manage pods easily.
5. **Lightweight & CLI-based** – No need for a heavy GUI like Lens.

Steps to install:

curl -sS https://webinstall.dev/k9s | bash



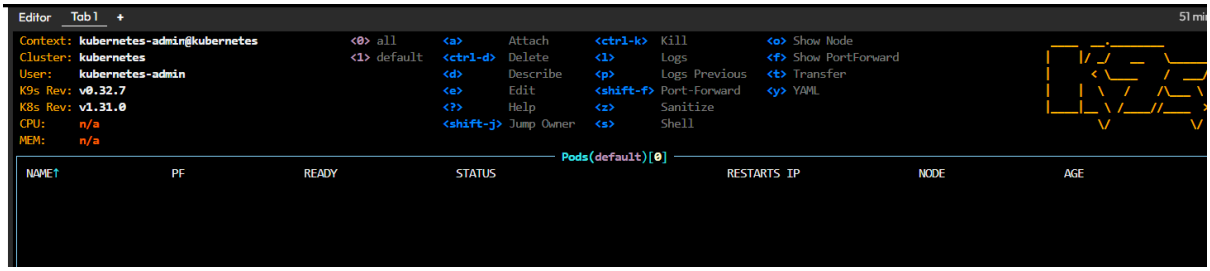
controlplane $ **echo 'export PATH=$HOME/.local/bin:$PATH' >> ~/.bashrc**

controlplane $ **source ~/.bashrc**

k9s version

```
controlplane $ echo 'export PATH=$HOME/.local/bin:$PATH' >> ~/.bashrc
controlplane $ source ~/.bashrc
controlplane $ k9s version
 ____  __.________
|    |/ _/   __   \______
|      < \____    /  ___/
|    |  \   /    /\___ \
|____|__ \ /____//____  >
        \/            \/

Version:    v0.32.7
Commit:     6b5d24f5741a1789fb97ba3e11f0ee868d93459d
Date:       2024-11-16T20:22:28Z
controlplane $
```

K9s



Now I create an deployment and svc for sample.

```yaml
apiVersion: v1
kind: Service
metadata:
  name: nginx-service
spec:
  selector:
    app: nginx
  ports:
    - protocol: TCP
      port: 80
      targetPort: 80
  type: LoadBalancer
```

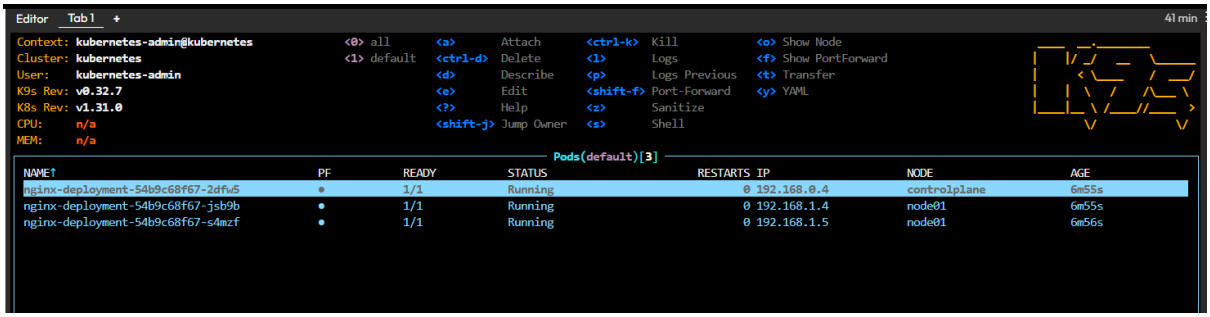
```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    app: nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        ports:
        - containerPort: 80
```

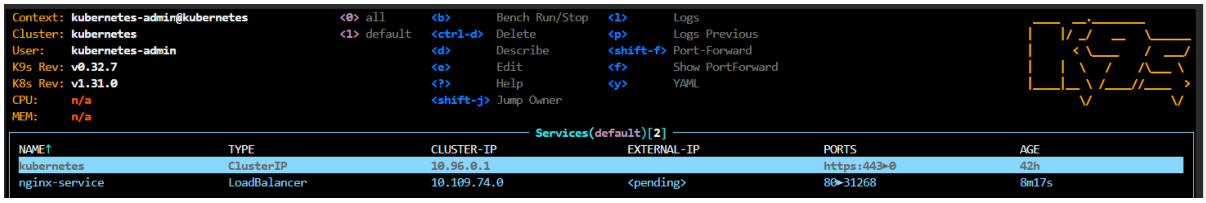
```
controlplane $ vi deploy.yaml
controlplane $ vi svc.yaml
controlplane $ k create -f deploy.yaml
deployment.apps/nginx-deployment created
controlplane $ k create -f svc.yaml
service/nginx-service created
controlplane $
```

Now I view in manually

```
controlplane $ k get pod,svc,deployment,node -o wide
NAME                                    READY   STATUS    RESTARTS   AGE     IP              NODE           NOMINATED NODE   READINESS GATES
pod/nginx-deployment-54b9c68f67-2dfw5   1/1     Running   0          5m50s   192.168.0.4     controlplane   <none>           <none>
pod/nginx-deployment-54b9c68f67-jsb9b   1/1     Running   0          5m50s   192.168.1.4     node01         <none>           <none>
pod/nginx-deployment-54b9c68f67-s4mzf   1/1     Running   0          5m51s   192.168.1.5     node01         <none>           <none>

NAME                 TYPE           CLUSTER-IP     EXTERNAL-IP   PORT(S)        AGE     SELECTOR
service/kubernetes   ClusterIP      10.96.0.1      <none>        443/TCP        42h     <none>
service/nginx-service   LoadBalancer   10.109.74.0    <pending>     80:31268/TCP   5m43s   app=nginx

NAME                               READY   UP-TO-DATE   AVAILABLE   AGE     CONTAINERS   IMAGES         SELECTOR
deployment.apps/nginx-deployment   3/3     3            3           5m51s   nginx        nginx:latest   app=nginx

NAME               STATUS   ROLES           AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE             KERNEL-VERSION      CONTAINER-RUNTIME
node/controlplane   Ready    control-plane   42h   v1.31.0   172.30.1.2    <none>        Ubuntu 20.04.5 LTS   5.4.0-131-generic   containerd://1.7.22
node/node01         Ready    <none>          41h   v1.31.0   172.30.2.2    <none>        Ubuntu 20.04.5 LTS   5.4.0-131-generic   containerd://1.7.22
controlplane $
```

Now I view in k9s





Summary of K9s Key Shortcuts

Key	Action
p	Show pods
d	Show deployments
e	Edit YAML
r	Restart pod/deployment
x	Delete pod/deployment
l	View logs
s	Open shell inside pod