

```
controlplane:~$ kubectl get pods
No resources found in default namespace.
controlplane:~$ kubectl get pods --all-namespaces -o wide
```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE	IP	NODE
kube-system	calico-kube-controllers-fdf5f5495-dgc76	1/1	Running	2 (17m ago)	29d	192.168.0.2	controlplane
kube-system	canal-9hc7x	2/2	Running	2 (17m ago)	29d	172.30.1.2	controlplane
kube-system	canal-b5cnm	2/2	Running	2 (17m ago)	29d	172.30.2.2	node01
kube-system	coredns-7695687499-2vdd4	1/1	Running	1 (17m ago)	29d	192.168.1.3	node01
kube-system	coredns-7695687499-ltw2v	1/1	Running	1 (17m ago)	29d	192.168.1.2	node01
kube-system	etcd-controlplane	1/1	Running	3 (17m ago)	29d	172.30.1.2	controlplane
kube-system	kube-apiserver-controlplane	1/1	Running	2 (17m ago)	29d	172.30.1.2	controlplane
kube-system	kube-controller-manager-controlplane	1/1	Running	2 (17m ago)	29d	172.30.1.2	controlplane
kube-system	kube-proxy-f7jnk	1/1	Running	2 (17m ago)	29d	172.30.1.2	controlplane
kube-system	kube-proxy-fbkjh	1/1	Running	1 (17m ago)	29d	172.30.2.2	node01
kube-system	kube-scheduler-controlplane	1/1	Running	2 (17m ago)	29d	172.30.1.2	controlplane
local-path-storage	local-path-provisioner-5c94487ccb-bm6vp	1/1	Running	2 (17m ago)	29d	192.168.0.3	controlplane

```
controlplane:~$ kubectl run nginx --image=nginx
pod/nginx created
controlplane:~$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
nginx	1/1	Running	0	16s

```
controlplane:~$ kubectl get pods -o wide
```

NAME	READY	STATUS	RESTARTS	AGE	IP	NODE	NOMINATED NODE	READINESS GATES
nginx	1/1	Running	0	72s	192.168.1.4	node01	<none>	<none>

apiVersion: v1

kind: Pod

metadata:

name: webapp

namespace: default

spec:

containers:

- image: nginx

imagePullPolicy: Always

name: nginx

- image: agentx

imagePullPolicy: Always

name: agentx

```
controlplane:~$ kubectl apply -f webapp.yml
```

```
pod/webapp created
```

```
controlplane:~$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
nginx	1/1	Running	0	3m12s
webapp	1/2	ErrImagePull	0	6s

```
Status: Pending
```

```
IP: 192.168.1.5
```

```
IPs:
```

```
IP: 192.168.1.5
```

```
Containers:
```

```
nginx:
```

```
Container ID: containerd://c91fc476c0d3b0cbcd682402d0c8acb9c74c6ce31eeff24fcc9fe4020dab48a3
```

```
Image: nginx
```

```
Image ID: docker.io/library/nginx@sha256:5ed8fcc66f4ed123c1b2560ed708dc148755b6e4cbd8b943fab094f2c6bfa91e
```

```
Port: <none>
```

```
Host Port: <none>
```

```
State: Running
```

```
Started: Mon, 21 Apr 2025 17:57:54 +0000
```

```
Ready: True
```

```
Restart Count: 0
```

```
Environment: <none>
```

```
Mounts:
```

```
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-rphpw (ro)
```

```
agentx:
```

```
Container ID:
```

```
Image: agentx
```

```
Image ID:
```

```
Port: <none>
```

```
Host Port: <none>
```

```
State: Waiting
```

```
Reason: ImagePullBackOff
```

```
Ready: False
```

```
Restart Count: 0
```

```
Environment: <none>
```

```
Mounts:
```

```
/var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-rphpw (ro)
```

```
Conditions:
```

```
Type Status
```

```
PodReadyToStartContainers True
```

```
Initialized True
```

```
controlplane:~$ kubectl delete pod webapp
```

```
pod "webapp" deleted
```

```
controlplane:~$ kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
nginx	1/1	Running	0	12m

```

controlplane:~$ kubectl delete pod redis
pod "redis" deleted
controlplane:~$ kubectl run redis --image=redis
pod/redis created
controlplane:~$ kubectl get pods

```

NAME	READY	STATUS	RESTARTS	AGE
nginx	1/1	Running	0	18m
redis	0/1	ContainerCreating	0	1s

```

controlplane:~$ kubectl get pods

```

NAME	READY	STATUS	RESTARTS	AGE
nginx	1/1	Running	0	18m
redis	1/1	Running	0	5s

```

controlplane:~$ kubectl run my-pod --image=nginx:alpine
pod/my-pod created
controlplane:~$ kubectl get pods

```

NAME	READY	STATUS	RESTARTS	AGE
my-pod	1/1	Running	0	7m20s
nginx	1/1	Running	0	34m
redis	1/1	Running	0	15m

```

controlplane:~$ kubectl delete pod my-pod
pod "my-pod" deleted
controlplane:~$ kubectl get pods

```

NAME	READY	STATUS	RESTARTS	AGE
nginx	1/1	Running	0	35m
redis	1/1	Running	0	16m