

# Kubernetes Troubleshooting

Adfinis**sy**Group

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# Kubernetes Troubleshooting

# How to troubleshoot your cluster

List your nodes and see their state

```
kubectl get nodes
```

# **Logfiles of kubernetes components**

For SUSE CaaSP Everything is logged to the journal

# Master Nodes

```
journalctl -s -u kube-apiserver
```

```
journalctl -s -u etcd
```

# Worker Nodes

```
journalctl -a -u kubelet
```

```
journalctl -a -u kube-proxy
```

## **Some possible reasons your nodes are in failed state**

- VM(s) shutdown
- Network issues
- Crashes in Kubernetes services
- Data loss or unavailability of persistent storage
- Operator error or misconfiguration



**What to do if a service isn't running as expected?**

**Is the service reachable?**

```
curl mydomain.local
```

**Is the pod running?**

```
kubectl get pods
```

**if not, why?**

kibacil describe pod xxxx

**if the pod is running, what is it telling us?**

```
kubectl logs pod xxxx
```

```
kubectl logs --previous pod xxxx
```

## Other helpful commands

`kubectl delete pod xxx` = basically restart Pod

`kubectl get events`

`kubectl get deploy xxx -o yaml`

`kubectl get ingress xxx -o yaml`

`kubectl get endpoints`

## Most common known Errors

- ImagePullBackOff
- FailedCreatePodSandBox
- Backoff from starting
- Readiness or Liveness Probe failing (Unhealthy)
- Scheduling Errors

## Other helpful links

- [Kubernetes Docs | Debug Application](#)
- [Kubernetes Docs | Debug Cluster](#)



# Feel Free to Contact Us

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