

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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