

LOGZILLA DOCUMENTATION

Kubernetes Troubleshooting

Diagnose LogZilla Kubernetes deployments using kubectl pod, service, and log inspection, and resolve probe, Secret, storage, and Ingress failures

Kubernetes Deployment Overview · Generated April 27, 2026 · logzilla.ai/docs/kubernetes-deployment/troubleshooting

Quick checks

```
# Pods and services
kubectl get pods
kubectl get svc

# Inspect a pod
kubectl describe pod <pod-name>

# Container logs
kubectl logs <pod-name> -c <container-name>
```

Common issues

- Probes failing (NotReady / CrashLoopBackOff):
 - Inspect readiness/liveness/startup probe configuration in manifests.
 - Review container logs for stack traces or healthcheck errors.
- Secrets or ConfigMaps missing:
 - Ensure `Common Config` and `Secrets` are applied before modules.
 - Verify base64 values and keys match manifest references.
- Storage pending:
 - Replace `storageClassName` with the cluster's class or remove the field to use the default `StorageClass`.
 - Confirm PV/PVC provisioning status.
- Ingress errors:
 - Confirm the correct `IngressClass` and annotations for the provider.
 - On GKE, verify NEG backends and health checks.
- External ports not reachable:
 - Confirm `LoadBalancer Services` were assigned external IPs and firewall rules permit inbound TCP/UDP as required.

Component-specific tips

- Ingest
 - `syslogng` exposes TCP/UDP 514, JSON 515, RFC5424 601; ensure the `syslog Service` exists and pods are Ready.
 - `httpreceiver` serves `/incoming` on port 80; verify the `httpreceiver Service` and Ingress/LB route.

- Storage
 - Check `storagemodule` and InfluxDB logs for disk or memory pressure.
 - Validate PVCs (`sm-data`, `sm-archives`, `influxdb-data`).
- API
 - `gunicorn` health endpoint: `/ping` on port 80.
 - `tornado` health endpoint: `/ping` on port 8001.
- Query
 - Ensure `SM_API_ADDRESSES` points to the actual `storage-<ordinal>` range.

Reapply and rollouts

```
# Reapply a manifest after editing
kubectl apply -f <file>.yaml

# Restart a statefulset to pick up changes
kubectl rollout restart statefulset/<name>

# Monitor rollout
kubectl rollout status statefulset/<name>
```