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 June 12, 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>
```