

LOGZILLA DOCUMENTATION

GKE Ingress Example

GKE LoadBalancer Services and HTTP Ingress manifest for LogZilla syslog, JSON, RFC5424, and HTTP ingest, plus UI, API, and WebSocket endpoints

Kubernetes Deployment Overview · Generated April 29, 2026 · logzilla.ai/docs/kubernetes-deployment/ingress-gke

Purpose

This example exposes syslog (TCP/UDP), JSON, RFC5424, and HTTP ingest via LoadBalancer Services, and publishes the UI, API, and WebSocket endpoints via an HTTP Ingress. Adapt annotations and class to other providers as needed.

GKE Ingress and Services

```
apiVersion: v1
kind: Service
metadata:
  name: syslogng-lb-tcp
spec:
  ports:
    - port: 514
      protocol: TCP
      targetPort: bsd-tcp
      name: bsd-tcp-svc-lb
    - port: 515
      protocol: TCP
      targetPort: json
      name: json-svc-lb
    - port: 601
      protocol: TCP
      targetPort: rfc5424
      name: rfc5424-svc-lb
  type: LoadBalancer
  selector:
    name: ingest
---
```

```
apiVersion: v1
kind: Service
metadata:
  name: syslogng-lb-udp
spec:
  ports:
    - port: 514
      protocol: UDP
      targetPort: bsd-udp
      name: bsd-udp-svc-lb
  type: LoadBalancer
  selector:
    name: ingest
---
```

```
apiVersion: v1
kind: Service
metadata:
  name: httpreceiver-lb
spec:
```

```
ports:
  - port: 80
    protocol: TCP
    targetPort: http-recv-port
    name: http-recv-port-ld
type: LoadBalancer
selector:
  name: ingest
---
```

```
apiVersion: cloud.google.com/v1
kind: BackendConfig
metadata:
  name: tornado-backendconfig
spec:
  healthCheck:
    timeoutSec: 5
    checkIntervalSec: 10
  timeoutSec: 3600
---
```

```
apiVersion: v1
kind: Service
metadata:
  name: ingress-tornado
  annotations:
    cloud.google.com/backend-config: '{"default": "tornado-backendconfig"}'
    cloud.google.com/neg: '{"ingress": true}'
spec:
  ports:
    - port: 8001
      targetPort: 8001
      protocol: TCP
  type: ClusterIP
  selector:
    name: api
---
```

```
apiVersion: cloud.google.com/v1
kind: BackendConfig
metadata:
  name: api-backendconfig
spec:
  healthCheck:
    timeoutSec: 5
    checkIntervalSec: 10
---
```

```
apiVersion: v1
kind: Service
metadata:
  name: ingress-api
  annotations:
    cloud.google.com/backend-config: '{"default": "api-backendconfig"}'
    cloud.google.com/neg: '{"ingress": true}'
spec:
  ports:
    - port: 80
```

```
    targetPort: 80
    protocol: TCP
  type: ClusterIP
  selector:
    name: api
---
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: ingress-gke
  annotations:
    spec.ingressClassName: "gce"
    kubernetes.io/ingress.allow-http: "true"
spec:
  defaultBackend:
    service:
      name: front
      port:
        number: 80
  rules:
  - http:
      paths:
      - path: /api/static/
        pathType: Prefix
        backend:
          service:
            name: front
            port:
              number: 80
      - path: /incoming/
        pathType: Prefix
        backend:
          service:
            name: httpreceiver-lb
            port:
              number: 80
      - path: /api/
        pathType: Prefix
        backend:
          service:
            name: ingress-api
            port:
              number: 80
      - path: /ws/
        pathType: Prefix
        backend:
          service:
            name: ingress-tornado
            port:
              number: 8001
```

Notes

- The NEG annotations are specific to GKE HTTP(S) Load Balancers.
- For other providers, use the platform's Ingress class and health checks.
- LoadBalancer Services expose syslog and HTTP ingest externally.