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1. GKE Autopilot cluster for Cribl

Overview: Requirement to have a GKE autopilot cluster setup to deploy Cribl worker nodes.

GKE autopilot cluster “gkeap-cribl-useast-dev-62233” has been deployed for this using Terraform IAC pipeline.

GitHub repo : https://github.com/QDXEnterpriseOrg/dso-gcp-cribl-useast-dev-10494/tree/main/terraform-google-cloud-gke

Cribl Documents:

criblio/helm-charts: Repository for Cribl Helm Charts

Set Up Leader and Worker Nodes | Cribl Docs

Google Cloud Pub/Sub Source | Cribl Docs

Ports | Cribl Docs

2. Metadata

Project name	:	prj-cribl-useast-dev-10494
Cluster name	:	gkeap-cribl-useast-dev-62233
Subnet	:	sn-ue4-cribl-dev-1
Secondary IP range	:	sipr-ue4-criblpod-dev-1
Secondary IP range service	:	sipr-ue4-criblpod-dev-2
Jump-host for dev	:	js-cribl-useast-dev-10494
Prod project	:	prj-cribl-useast-prd-49360
Jump-server for prod	:	js-cribl-useast-prd-49360

3. Cribl repos

Non-prod Repository name: dso-gcp-cribl-useast-dev-10494

Cluster IAC code repo : https://github.com/QDXEnterpriseOrg/dso-gcp-cribl-useast-dev-10494/tree/main/terraform-google-cloud-gke

Cribl worker node Helm charts repo: https://github.com/QDXEnterpriseOrg/dso-gcp-cribl-useast-dev-10494/tree/main/helm-chart-deployment

Quest GitHub path - PROD: dso-gcp-cribl-useast-prd

dso-gcp-cribl-useast-prd/helm-chart-deployment at main · QDXEnterpriseOrg/dso-gcp-cribl-useast-prd

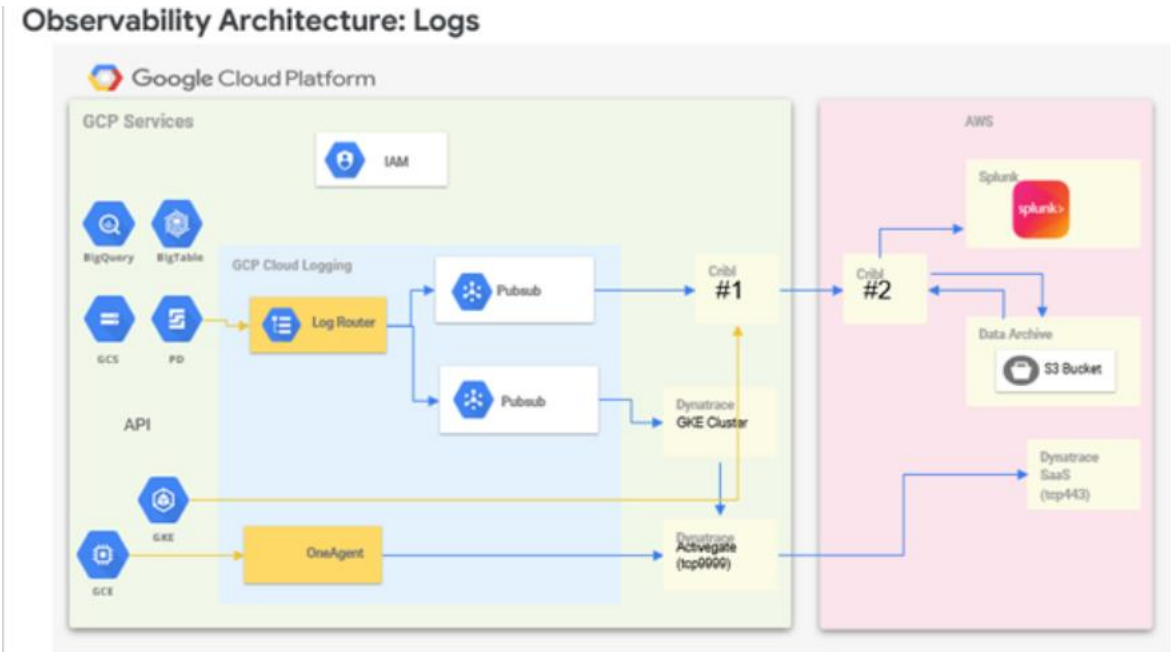
Worker node Installation (Non-Prod):

helm install --repo "https://github.com/QDXEnterpriseOrg/dso-gcp-cribl-useast-dev-10494/tree/main/helm-chart-deployment" --version "^4.10.1" --create-namespace -n "cribl" --set "config.host=cribl.qdx.com" --set "config.token=ROGLpmlj0BFVsPgg37DEIbhLykr1cz84" --set "config.group=GCP-OutboundBridge-NonProd" --set "config.tlsLeader.enable=false" "cribl-worker" logstream-workergroup

Worker node Installation (Prod):

helm install --repo "https://github.com/QDXEnterpriseOrg/dso-gcp-cribl-useast-dev-10494/tree/main/helm-chart-deployment" --version "^4.10.1" --create-namespace -n "cribl" --set "config.host=cribl.qdx.com" --set "config.token=ROGLpmlj0BFVsPgg37DEIbhLykr1cz84" --set "config.group=GCP-OutboundBridge-Prod" --set "config.tlsLeader.enable=false" "cribl-worker" logstream-workergroup

4. Architecture diagram



5. Cribl Leader node setup in GCP(PROD):

Project: prj-cribl-useast-prd-49360

PFB pre-requisites for Leader Node setup:

- **Two GCP VM instances** (e.g., `e2-standard-4`) with static internal IPs – **Done**(cribl-ln-vm1-useast-prd-94842, cribl-ln-vm2-useast-prd-45892)
- **Google Filestore (NFS)** or equivalent for shared `/opt/cribl/local` directory – **Done(**fs-ln-cribl-94842**)**
- **Internal TCP Load Balancer (ILB)** with health checks on **port 4200 – Done (**cribl-ilb-backend**)**
- Firewall rules allowing ports **4200** (Leader sync), **9000** (UI), and custom ports for API/UI access – **Done(fw-ue4-allow-ingress-cribl-prd)**
  Port 9000 is blocked as of now Application owner Hans/Vivek raised new Firewall request to unblock **- REQ0532406 || RITM0482436**
- DNS alias (optional): Point to ILB IP for consistency – **Check with Hans if required in future**

Installation Link and Package:

https://docs.cribl.io/stream/deploy-single-instance/

Enable boot start:

Enabling Start on Boot | Cribl Docs

Setup Leader and Worker Node:

https://docs.cribl.io/stream/setting-up-leader-and-worker-nodes/

Leader Failover/HA

https://docs.cribl.io/stream/deploy-add-second-leader/