GSP314

Task 1 : Create Production Environment

SSH to kraken-jumphost and run

1. cd /work/dm
   sed -i s/SET_REGION/us-east1/g prod-network.yaml

2. gcloud deployment-manager deployments create prod-network --config=prod-network.yaml

3. gcloud config set compute/zone us-east1-b

4. gcloud container clusters create kraken-prod \
   --num-nodes 2 \
   --network kraken-prod-vpc \
   --subnetwork kraken-prod-subnet\
   --zone us-east1-b

5. gcloud container clusters get-credentials kraken-prod

6. cd /work/k8s

7. for F in $(ls *.yaml); do kubectl create -f $F; done

Task 2 : Setup the Admin instance

- Still in kraken-jumphost's SSH, run

8. gcloud config set compute/zone us-east1-b

9. gcloud compute instances create kraken-admin
   --network-interface="subnet=kraken-mgmt-subnet"
   --network-interface="subnet=kraken-prod-subnet"

- Open monitoring
- Create an alert
- Configure the policy to email your email and set

Resource Type : VM Instance

Metric : CPU utilization

Filter : instance_name

Value : kraken-admin

Condition : is above

Threshold : 50%

For : 1 minute

Task 3 : Verify the Spinnaker deployment

- Switch to cloudshell, run

1. gcloud config set compute/zone us-east1-b

2. gcloud container clusters get-credentials spinnaker-tutorial

3. DECK_POD=$(kubectl get pods --namespace default -l "cluster=spin-deck" -o jsonpath="{.items[0].metadata.name}")

4. kubectl port-forward --namespace default $DECK_POD 8080:9000 >> /dev/null &

- Go to cloudshell webpreview
- Go to applications -> sample
- Open pipelines and manually run the pipeline if it has not already running.
- Approve the deployment to production.
- Check the production frontend endpoint (use http, not the default https)
- Back to cloudshell, run to push a change

1. gcloud config set compute/zone us-east1-b

2. gcloud source repos clone sample-app

   cd sample-app
   touch a

3. git config --global user.email "$(gcloud config get-value account)"
   git config --global user.name "Student"
   git commit -a -m "change"
   git tag v1.0.1
   git push --tags