03 IAM-Roles-gcloud -KirkYagami 🛅 🖺

Step-02: Create a VM Instance

```
# Set Project
gcloud config set project PROJECT_ID
gcloud config set project bigdata3844

# Create VM Instance
gcloud compute instances create vm1 \
    --zone=us-central1-a \
    --machine-type=e2-micro \
    --network-interface=subnet=default
```

Step-03: Pre-requisite: Create a test gmail id for this demo

• yagamikirk@gmail.com

Step-04: Custom Role: Delete VM

Step-04-01: Role Definition using YAML file

```
title: "Custom Compute Instance Delete Role 102"
description: "My custom role used for deletion of Compoute Instance 101"
stage: "ALPHA"
includedPermissions:
- compute.instances.delete
```

Step-04-02: Create a IAM Role with YAML File at Project Level

```
# Upload the file to Cloud Shell
Upload the file: delete-instance-role.yaml to cloud shell

# Create a IAM Role with YAML File
gcloud iam roles create myInstanceDelete102 \
    --project=bigdata3844 \
    --file=delete-instance-role.yaml

# Describe Role
```

```
gcloud iam roles describe ROLE_ID --project=bigdata3844
gcloud iam roles describe myInstanceDelete102 --project=bigdata3844
```

Step-04-03: Create a IAM Role with gcloud using flags at Project Level

```
# Create a IAM Role with flags
gcloud iam roles create myInstanceReset102 \
    --project=bigdata3844 \
    --title="Custom Compute Instance Reset Role 102" \
    --description="My custom role used for Reset of Compoute Instance" \
    --permissions="compute.instances.reset" \
    --stage="ALPHA"

# Describe Role
gcloud iam roles describe ROLE_ID --project=bigdata3844
gcloud iam roles describe myInstanceReset102 --project=bigdata3844
```

Step-05: Add IAM Roles to User: yagamikirk@gmail.com

- Go to IAM & Admin -> IAM -> GRANT ACCESS
- Add Principal: yagamikirk@gmail.com
- Select Role: Compute Viewer
- Select Role: Custom Role Start Stop VM
- Select Role: Custom Compute Instance Delete Role 102
- Select Role: Custom Compute Instance Reset Role 102
- Click on SAVE

Step-06: Login to Google Cloud with new user <u>yagamikirk@gmail.com</u>

- Open in New incognito window
- Login to Google Cloud
 - Username: yagamikirk@gmail.com
 - Password: XXXXXXXX
- Select Project bigdata3844
- Observation-1: We should have options DELETE and RESET options enabled

Step-07: Update IAM Role (ADD PERMISSIONS, REMOVE PERMISSIONS) with flags

```
# ADD PERMISSIONS: Update a IAM Role with flags to
gcloud iam roles update myInstanceReset102 \
    --project=bigdata3844 \
    --add-permissions="compute.instances.suspend"

# Describe Role
gcloud iam roles describe ROLE_ID --project=bigdata3844
gcloud iam roles describe myInstanceReset102 --project=bigdata3844

# REMOVE PERMISSIONS: Update a IAM Role with flags to
gcloud iam roles update myInstanceReset102 \
    --project=bigdata3844 \
    --remove-permissions="compute.instances.suspend"

# Describe Role
gcloud iam roles describe ROLE_ID --project=bigdata3844
gcloud iam roles describe myInstanceReset102 --project=bigdata3844
```

Step-08: Clean-Up VM Instances

Delete VM Instances