# How to Run GitHub Actions Pipelines for Terraform on GCP

## Step 1: Base64 Encode the GCP Service Account Key

1. Open PowerShell, Git Bash, or WSL.  
2. Run the following command to base64-encode your GCP service account JSON key:  
 - PowerShell:  
 [Convert]::ToBase64String([IO.File]::ReadAllBytes("C:\Users\mural\Documents\gcp-terraform-key.json"))  
 - Git Bash / WSL:  
 cat /c/Users/mural/Documents/gcp-terraform-key.json | base64  
3. Copy the output (you’ll need it for GitHub Secrets).

## Step 2: Add the Secret to GitHub

1. Go to https://github.com and open your repository.  
2. Navigate to: Settings > Secrets and variables > Actions.  
3. Click “New repository secret”.  
4. Name: GCP\_CREDENTIALS  
5. Value: Paste the base64-encoded JSON from Step 1.  
6. Click "Add secret".

## Step 3: Commit Your Changes

1. Open terminal in your project directory.  
2. Run these commands:  
 git add .  
 git commit -m "Add GitHub Actions and Terraform setup for GCP"  
 git push origin main  
3. Your workflow will trigger automatically.

## Step 4: Monitor Workflow

1. Go to the "Actions" tab in your GitHub repository.  
2. Look for a workflow run with your commit message.  
3. Click into the run to see logs, plan, and apply steps.