

TERRAFORM DEPLOYMENT PIPELINE

AWS Step-functions will be used to enqueue and orchestrate on-demand terraform jobs which will be executed using AWS Batch on Fargate.

WORKFLOWS

1. PLAN

Trigger : Pull Request

Steps:

1. Terraform plan

Target Environment : Merge Environment

Output : Publish Plan on PR Page - Send Slack notification

2. PLAN - APPLY

Trigger : Commit to Master

Steps:

- Terraform plan
- Wait for approval
- Terraform apply

On Error:

- Checkout to last working commit
- Terraform apply

Target Environment : Merge Environment

Output: Send Slack Notification

3. APPLY EPHEMERAL

Trigger : Manual

Steps:

- Terraform Apply

- Schedule Cron Job to destroy

On Error:

- Terraform Destroy

Target Environment : Ephemeral Testing/Dev Environments

Output: Slack Notification

4. Other Workflows

- Modify Cron
- Pass terraform command

INPUTS

- Infrastructure Repository
- Commit [hash|branch|tag|ref]
- Target Environment (AWS account ID)
- Pipeline Command [plan|apply|ephemeral|cron|<custom>]
- Batch Job Definition ARN
- Batch Job Queue ARN
- User Email
- Pull Request ID (Optional)
- Time to Live (Optional)