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Terraform provisiners

- Terraform provides 3 kinds of provisioners
 - o local-exec: used to execute some script on local machine where terraform is executing
 - o remote-exec: used to execute some script on remote machine
 - o file: this is used to copy files from local to remote
- Refer Here for official docs
- When connecting to remote machines we need to establish connections

Activity

- Create an ec2 instance and execute script using provisioners
- Provisioners will also be executed only once when the resource is created.
- Refer Here for changes

Activity Improvement: I want to execute the install script without recreating ec2 instance.

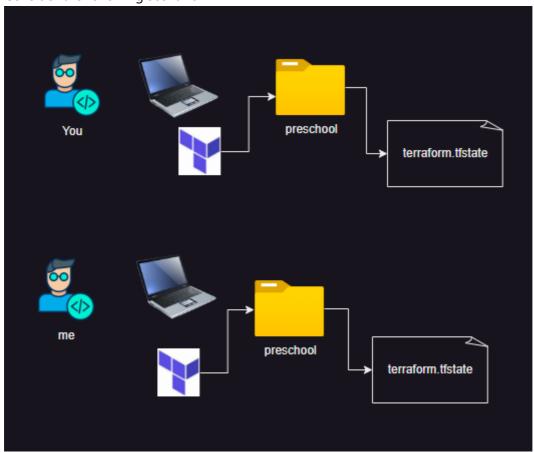
- For acheiving terraform has an interesting resource called as null_resource
- We will move provisioning into null resource and trigger the script execution whenever we want. Refer Here
- Refer Here for changes

Terraform Backends

• Backend is a location where terraform state is stored. The default backend is local folder

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• Consider the following scenario



- Since the state is stored locally, two different executions will lead to terraform trying to create 2 different set of resources
- Solution to this problem is to have common location for both engieers to store the state file
- Refer Here for official docs
- There are different backends available
 - o local
 - o remote
 - o s3
 - o azurerm
 - o ..
- s3 backend doesnot support locking, for locking in s3 we need to create a dynamob db

Configuring s3 backend

- Create an s3 bucket with some unique name qtterraformbackend
- Now create a dynamodb table with partitionKey LockID
- Refer Here for the changes done