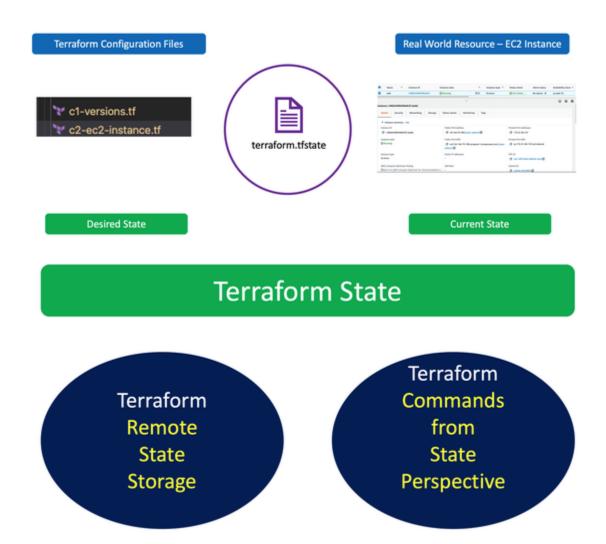
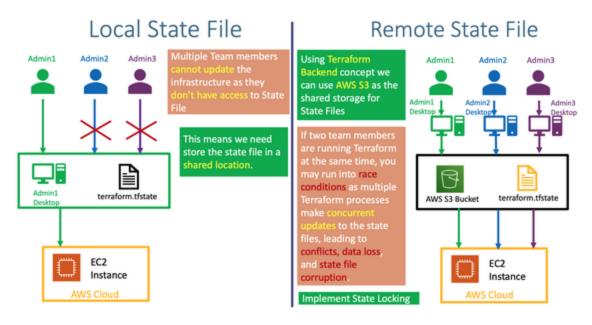
Terraform Backend With S3 and DynameDB

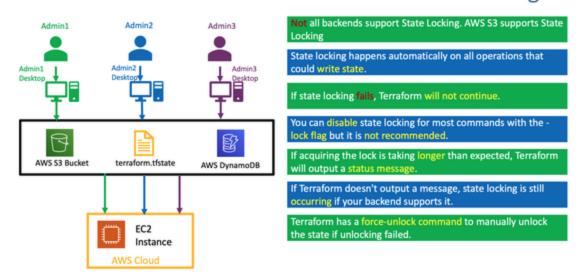
Terraform Remote State Storage and State Locking with AWS S3 and DynamoDB

Desired & Current Terraform States





Terraform Remote State File with State Locking



Create S3 Bucket

- Go to Services -> S3 -> Create Bucket
- Bucket name: terraform-development-state
- Region: US-East (N.Virginia)
- Bucket settings for Block Public Access: leave to defaults
- Bucket Versioning: Enable
- Leave another setting as defaults
- Click on Create Bucket
- Create Folder
 - Folder Name: development
 - Click on Create Folder

Add State Locking Feature using DynamoDB Table

- Create Dynamo DB Table
 - Table Name: development-state-lock
 - Partition key (Primary Key): LockID (Type as String)
 - Table settings: Use default settings (checked)
 - Click on Create

Terraform Backend Configuration

- Reference Sub-folder: terraform-manifests
- Terraform Backend as S3
- Add the below listed Terraform backend block in Terraform Settings block in main.tf

```
# Adding Backend as S3 for Remote State Storage
backend "s3" {
  bucket = "terraform-development-state"
  key = "development/terraform.tfstate"
  region = "us-east-1"

  dynamodb_table = "development-state-lock"
}
```

```
# Terraform Block
terraform {
 required_version = "~> 0.14"
 required_providers {
   aws = {
     source = "hashicorp/aws"
     version = "~> 3.0"
    }
  # Adding Backend as S3 for Remote State Storage
 backend "s3" {
   bucket
                 = "terraform-development-state"
   key
                  = "development/terraform.tfstate"
                 = "us-east-1"
   dynamodb_table = "development-state-lock"
# Provider Block
provider "aws" {
 region = var.aws_region
 profile = "default"
```

References

- AWS S3 Backend
- Terraform Backends
- Terraform State Storage
- Terraform State Locking
- Remote Backends Enhanced