State file Chameli ke computer me hai... Vo gai beach pr ghoomne... State file uske laptop me hi reh gai...

Chameli

Local me Code bhi hai..

Local me State file hai..

Terraform plan apply bhi local pr hai..

Problems

1. Jis bhi bande ke ya bandi hai ke local computer pr sab kuch hai, agar vo leave lele ya naukri chhod de aur laptop na de...

2. Agar Team me kaam ho raha hai toh local pr kuch bhi agar rakha hai toh baki team members usko acces ya use nahi kr paenge..

chameli@gmail.com
reader

Perpendicular
perpendicular@gmail.com
reader

az login

Chameli

az login

Perpendicular

Nadi Kinare saanp hai, Statefile ko local pr rakhna maha paap hai

Local

Local
1. Windows Computer
2. Az cli
3. Terraform cli
4. Code hai, State file hai
5.Terraform init plan apply bhi hai

Github

Terraform Code
.tf file

Storage Account

Terraform State File
.tfstate

CICD Pipeline

az login
terraform init
terraform plan
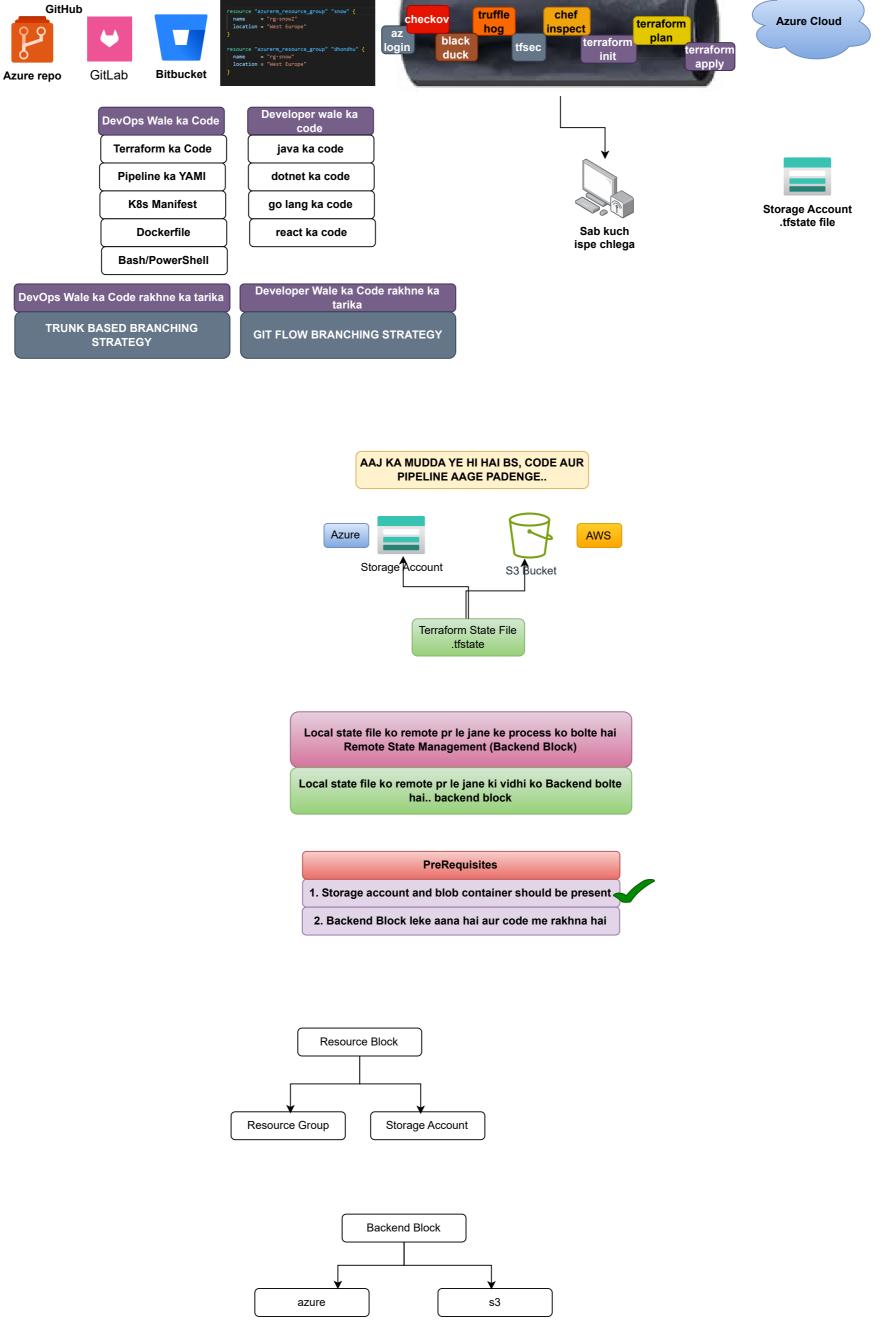terraform apply

az login, terraform plan, apply

Statefile Remote pr rakhna hai..

terraform state file, .tfstate
az login, terraform init, plan, apply
tondu.tf = Code
az cli, terraform cli

Windows

username/password → token → Azure Portal
token → Entra ID

az login
UserName/Password → token
→ C:/users/.azure/token
Terraform apply → token → Azure

```
EXPLORER                    ...        🐙 tondu.tf  X
✓ CLASS5                              🐙 tondu.tf > ⚙ resource "azurerm_resource_group" "snow"
  > .terraform                          terraform {
  ≡ .terraform.lock.hc    3. .lock.hcl    required_providers {
  {} terraform.tfstate    2. .tfstate       azurerm = {
  🐙 tondu.tf                               source  = "hashicorp/azurerm"
                          1. .tf file         version = "4.24.0"
                                            }
                                          }
                                        }

                                        provider "azurerm" {

PORTS   OUTPUT   PROBLEMS   TERMINAL   DEBUG CONSOLE
+ resource "azurerm_resource_group" "tommy" {
+   id       = (known after apply)
+   location = "westeurope"              init, plan, apply
+   name     = "rg-tommy"

Plan: 3 to add, 0 to change, 0 to destroy.
azurerm_resource_group.dhondhu: Creating...
azurerm_resource_group.tommy: Creating...
azurerm_resource_group.snow: Creating...
azurerm_resource_group.tommy: Still creating... [10s elapsed]
azurerm_resource_group.dhondhu: Still creating... [10s elapsed]
azurerm_resource_group.snow: Still creating... [10s elapsed]
azurerm_resource_group.tommy: Creation complete after 11s [id=/subscri
]
azurerm_resource_group.dhondhu: Creation complete after 11s [id=/subsc
w]
azurerm_resource_group.snow: Creation complete after 13s [id=/subscrip

Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
PS C:\DevOpsInsiders\Batch17\azure-devsecops-batch-17\CodeSamples\Terr
```

Source Code Management Tools

GitHub

Azure repo   **GitLab**   **Bitbucket**

az login | checkov | truffle hog | chef inspect | terraform plan
black duck | tfsec | terraform init | terraform apply

Azure Cloud

DevOps Wale ka Code
Terraform ka Code
Pipeline ka YAML
K8s Manifest
Dockerfile
Bash/PowerShell

Developer wale ka code
java ka code
dotnet ka code
go lang ka code
react ka code

Sab kuch ispe chlega

Storage Account
.tfstate file

DevOps Wale ka Code rakhne ka tarika
TRUNK BASED BRANCHING STRATEGY

Developer Wale ka Code rakhne ka tarika
GIT FLOW BRANCHING STRATEGY

AAJ KA MUDDA YE HI HAI BS, CODE AUR PIPELINE AAGE PADENGE..

Azure
Storage Account

S3 Bucket

AWS

Terraform State File
.tfstate

Local state file ko remote pr le jane ke process ko bolte hai Remote State Management (Backend Block)

Local state file ko remote pr le jane ki vidhi ko Backend bolte hai.. backend block

PreRequisites
1. Storage account and blob container should be present ✔
2. Backend Block leke aana hai aur code me rakhna hai

Resource Block
├── Resource Group
└── Storage Account

Backend Block
├── azure
└── s3

terraform.tfstate — authenticate → Storage account

az cli