Day - 5

13 December 2024 10:33

1. Virtual Machine using terraform.
2. Sentinel Policies.
3. RBAC.
4. Remote Backend Concept & state lock.
5. Terraform Import
6. Demonstrate how to setup pipeline for terraform task.
7. Azure Key Vault.

1. Terraform state:- → Detail of execution.

terraform.tfstate after you execute the terraform apply.

State lock will lock the .tfstate file to avoid the multiple change parallelely. It will push one change at a time.

RG → Storage Account → Container → tfstatefile

initialize at .tf file in our terraform end.

2. Terraform Import:-

1. Able to import existing infra.
2. Resource which is already available & it's been used by Terraform.
3. Infra. → Terraform.

terraform import azurerm_resource_group.vkrg2 /subscriptions/<Subscription_ID/resourceGroups/vkrg2

terraform import azurerm_resource_group.example /subscriptions/<SUBSCRIPTION_ID>/resourceGroups/<RESOURCE_GROUP_NAME>

* Sentinel Policies:-

1. Allowed-providers.sentel.
2. enforce-mandatory-tags.sentel
3. limit-proposed-monthly cost.sentel
4. Restrict-vm-publishers.sentel.
5. restrict-vm-size.sentel.

sentinel.hcl.

5. restrict - v...

sentinel.hcl.

Enforcement level:-

1. Advisory.
2. Soft - Manditory
3. hard- Manditory

Common function:-

1. tf Config -function.
2. tf plan -function.
3. tf run- function.
4. tfstate-function.

Sentinel.hcl

1. tf-plan-function
2. enforcement level

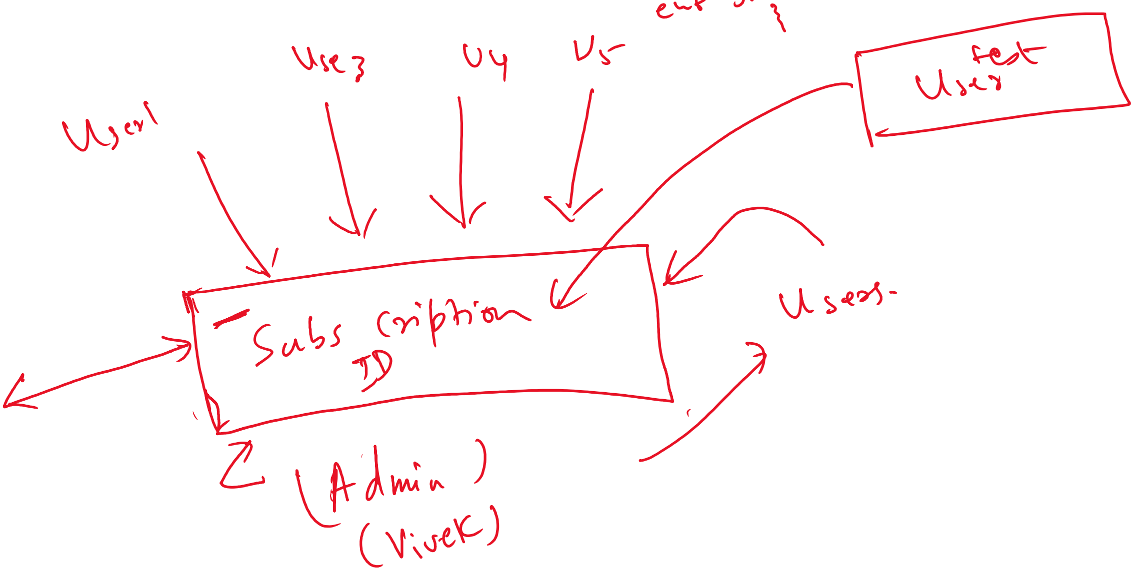
policy wise

module

enf. policy ('tfplan')
Allow.policy
restrict.policy

module " ___ "
{
source =" ___ ''
}

policy " ___ "
{
enf type= " advi|soft|hard'
}



VM:-

1. Variable - Input | Output
2. Local.
3. Backend
4. terraform.tf.vars.
7. VM

Public IP

2. Local.
3. Backend

1. RG.
2. Vnet.
3. Subnet

4. Public IP
5. Virtual NI
6. NSG.
7. V...

Tag → Conditional statement
Dev →
Prod →

1. Meta Argument → 1. depends
2. for_each.
3. Count.
4. lifecycle.

[RG → Vnet → Subnet]

1. Depends:- publicIP
Var. ——[*].id

2. for_each:-.

3. count:- Count = 2
Count. Index [0]
[1]

4. lifecycle:-
Alter
1. Create then destroy
2.