



APRIL 1, 2023

DevOps Classroomnotes 01/Apr/2023

Solving Problem with count using for each

- [Refer Here](#) for official docs
- [Refer Here](#) for the fix with toset and foreach

```

- content_base64sha512 = "m3HSJL1i83hdltRq0+o9czGb+8KJDKra4t/3JrlnPKcjI8PZm6XBHXx6.
G4UuMXaDEZjR1wuXDre9G9zvN7AQw==" -> null
- content_md5 = "5d41402abc4b2a76b9719d911017c592" -> null
- content_sha1 = "aaf4c61ddcc5e8a2dabede0f3b482cd9aea9434d" -> null
- content_sha256 = "2cf24dba5fb0a30e26e83b2ac5b9e29e1b161e5c1fa7425e730433629
38b9824" -> null
- content_sha512 = "9b71d224bd62f3785d96d46ad3ea3d73319bfbcb2890caadae2dff725.
9673ca72323c3d99ba5c11d7c7acc6e14b8c5da0c4663475c2e5c3adef46f73bcddec043" -> null
- directory_permission = "0777" -> null
- file_permission = "0777" -> null
- filename = "test2.txt" -> null
- id = "aaf4c61ddcc5e8a2dabede0f3b482cd9aea9434d" -> null
}

Plan: 0 to add, 0 to change, 1 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

Enter a value:

```

- [Refer Here](#) for using for each with map(object)

Immutable Infrastructure

- when there is any change needed to be done in infra change template not infra.
- Every change needs to be version controlled.

Provisioners

- [Refer Here](#) for provisioners
- Terraform recommends using cloud-init custom data or user-data instead of provisioners if possible [Refer Here](#)
- [Refer Here](#) for the chagnes



- [Refer Here](#) for the changes done in azure to create vm with custom_data



Terraform provisioners

- Terraform has two kinds of provisioners
 - local-exec: This executes on the machine where terraform apply is executed
 - remote-exec: This executes on the remote machine generally the machine created
 - file provisioner: which is used to copy file from local to remote
 - For remote provisioners and file provisioners copying into remote we need connections to be managed [Refer Here](#)
- we can specify when to do provisioning
 - during create
 - during destroy
- [Refer Here](#) for provisioner in azure
- [Refer Here](#) for the changes done to perform provisioning in aws
- Terraform taint is used to mark a resource for recreation during next apply
- When we want to change the script every time to make it work, we should be tainting terraform


```
taint <resourcetype>.<resourceName>
```
- To solve this problem we use null_resource [Refer Here](#)
- [Refer Here](#) for the usage of null resource in terraform aws example and [Refer Here](#) for changes in terraform azure example

Building Reusable templates in Terraform using Modules

- [Refer Here](#) for the template which can create vpc with public and private subnets
- Now we want to make that reusable.
- To do that we need to create modules [Refer Here](#)
- Terraform modules has
 - inputs
 - resources
 - outputs
- Group them and this becomes module
- [Refer Here](#) for module demo
- Terraform registry hosts lot of community modules [Refer Here](#)
- [Refer Here](#) for sample aws vpc community module
- Possible module sources [Refer Here](#)

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