

Terraform course

① Can save tf plan to a file

terraform plan -out <filename>
↓
infra.plan

② apply from planned file

- terraform apply infra.plan

- even if you changed infra but you want to run infra, plan ka infra → you can

③ terraform show to read contents of plan file since it's a binary file

terraform output <variable name>

→ command used to extract value of an

output variable from state file

terraform settings are used to configure
project specific terraform behaviours,
such as requiring a min tf version
to apply your config

terraform of

required version =
required providers = {

}

Zipmap function constructs a map from
a list of keys & corresponding list of
values

Zipmap (keylist, valuelist)

Comments in the program, code

or // or /* */

Meta arguments → we use these args when

we want to ignore any manual changes

done through AWS console to a resource

basically we do not want to overwrite the
manual changes done through AWS console
to any resource

resource {

lifecycle {

ignore-changes = []

}

}

↑
list of prop names
like tags

diff meta args

depends-on, count, for-each, lifecycle,
provider

meta args inside lifecycle meta args

create - before - destroy

prevent - destroy

ignore - changes

replace - triggered - by

terraform graph command produces
descriptions of relationships b/w objects in
tf config using DOT language

Terraform Provisioners

→ not a part of newer version of
exams (confirm with Rohan/
Jayati/Ritik)

Terraform Modules

(1) DRY - do not repeat yourself

② Tf modules allow us to centralize the resources config & it makes it easier for multiple projects to re-use tf code

③ tensorflow init downloads the module code in local workspace

④ tf registry can contain multiple modules for specific infra resource maintained by diff users

don't use any random modules since some hacker might have planted malicious code in a module

To make a module of say FC2, IAM we use resource block & to refer a module we use module block which must contain a source argument that contains location to

referenced module

specify the version
of module as well

git repo or
local path or
bitbucket

→ avoid hard coding of values as a part
of modules as then later it will be
difficult to modify in resource
↓
use variables

Module outputs

ensure to include of values in the
module code for better flexibility &
integration with other resources of
projects

Root & child modules

Root module resides in main directory &
is entry point of infra

child module is one that is called by
another module

Requirements for publishing module

① module must be on github & must be
a public repo

② must use 3 part name format

terraform < PROVIDER > - < NAME >

③ repo desc = short desc of module

④ ~~do~~ have standard module struct

⑤ uses tags to identify module versions

terraform workspace show



to know w/ you are in

terraform workspace | "new <name>"
| delete
| list
| select

Remote State Management

Alias meta argument

each provider can have 1 default config,
to include any no. of alt config
include extra name → alias

provider "aws" {

alias = mumbai

region = "ap-west-1"

}

Hashicorp Vault allows org to store
secrets securely along with access

management for protecting secrets

Terraform Challenges

Q1#1