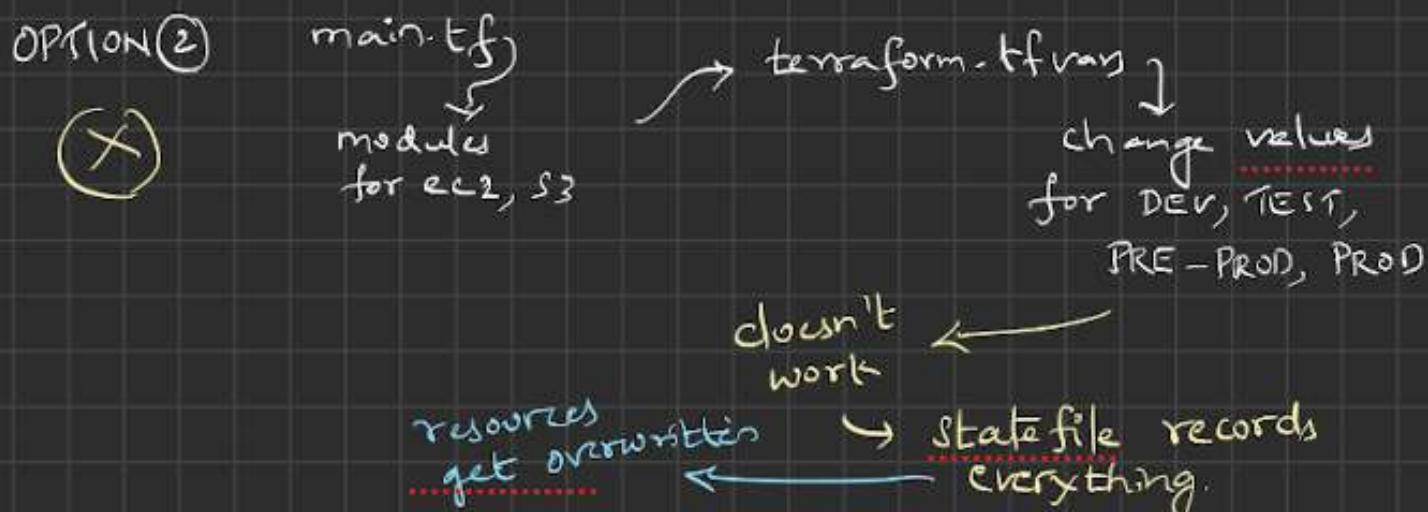
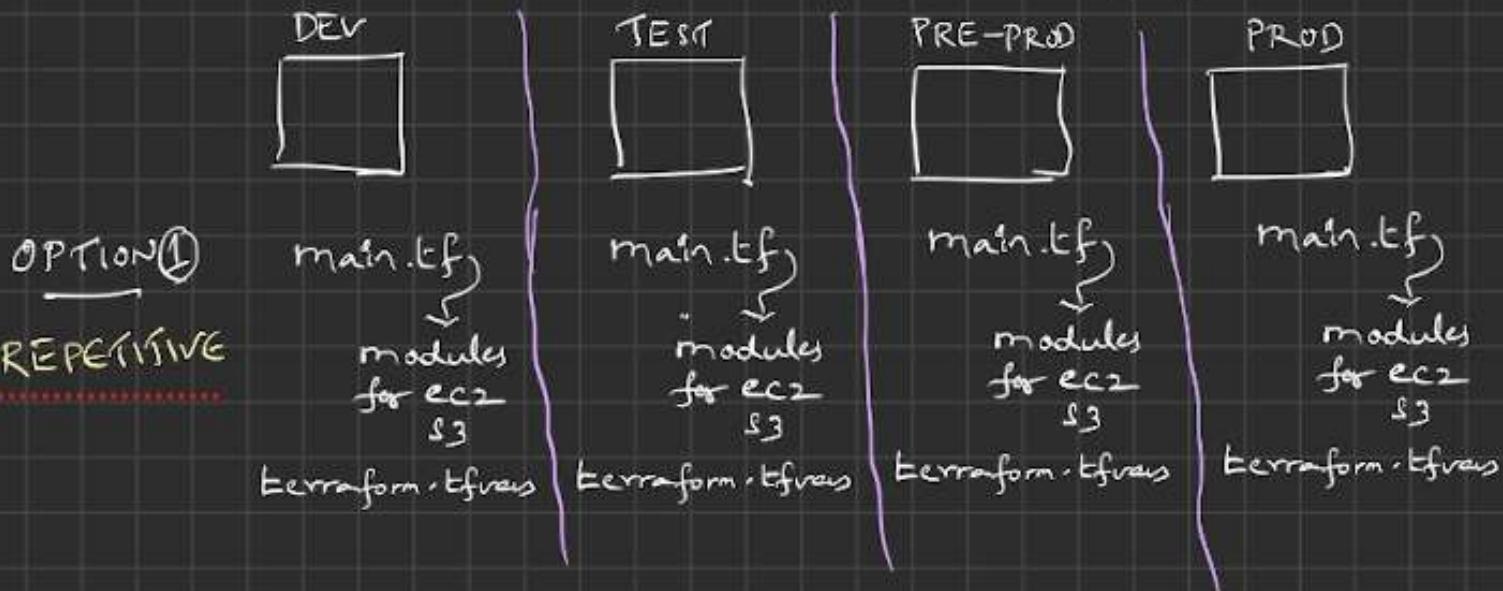


TERRAFORM - WORKSPACES

What is Terraform workspaces? What problem it is solving?

Ex: Lets say, you are asked to create EC2 + S3 on different environments in a project.



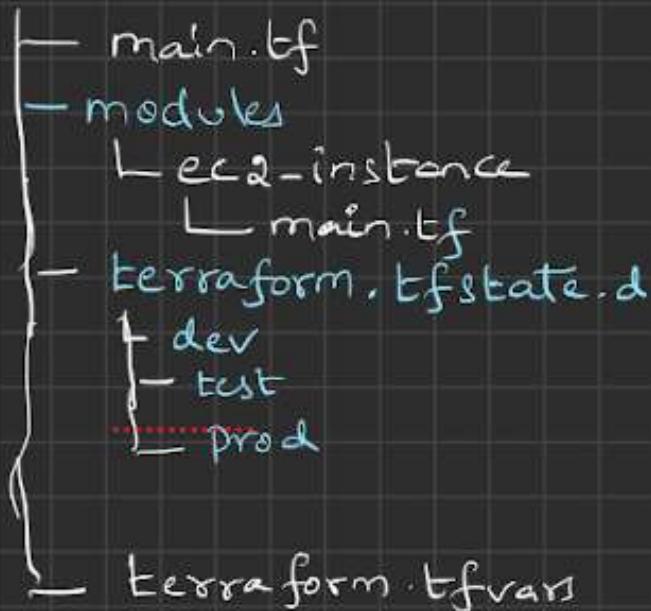
OPTION ③ terraform has better option to solve this problem "workspaces"



Creates separate state files for each environment within one terraform project.

example

```
$ terraform workspace new dev  
$ terraform workspace new test  
$ terraform workspace new prod
```



terrafrom workspace select dev ← switches to "dev" workspace

terrafrom workspace show

Now, when you run terraform init, it will {
create terraform.tfstate file under "dev" }
directory and not in the root folder

this is the
beauty of
"workspace".
It helps devops engg
to segregate environment.

Good practice

option ① : create three tfvars files

terraform - dev. tfvars

terraform - test. tfvars

terraform - prod. tfvars

terraform apply - var-file = prod. tfvars

option ②

```
variable "instance_type" {
    description = "value"
    type = map(string)

    default = {
        "dev" = "t2.micro"
        "stage" = "t2.medium"
        "prod" = "t2.xlarge"
    }
}

module "ec2_instance" {
    source = "./modules/ec2_instance"
    ami = var.ami
    instance_type = lookup(var.instance_type, terraform.workspace, "t2.micro")
}
```