```
Root Module Directory

— main.tf

— variables.tf

— outputs.tf

— provider.tf

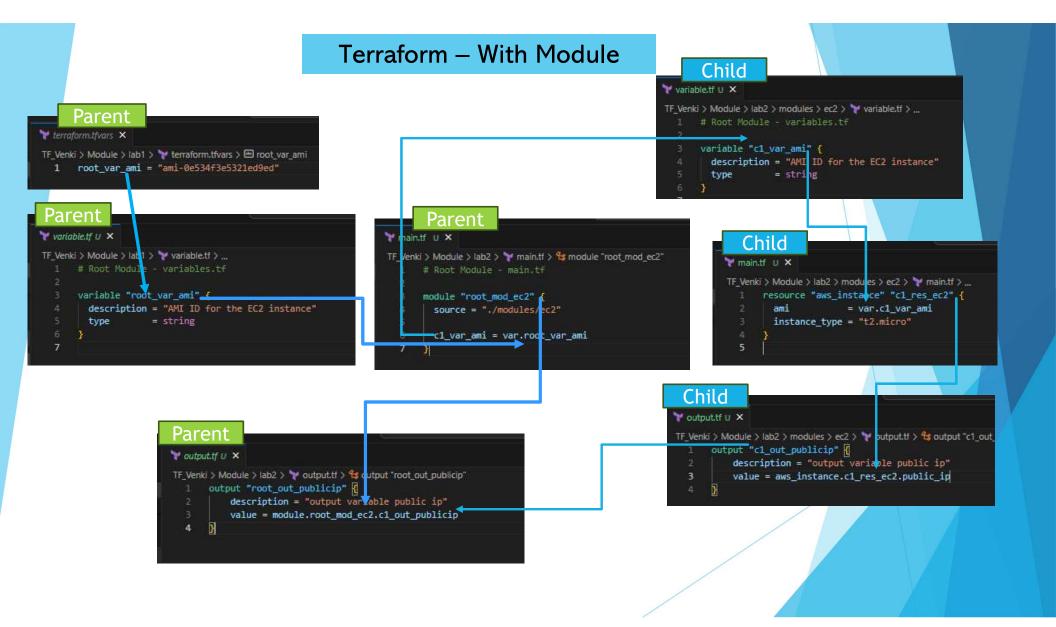
Lerraform.tfvars
```

```
Root
                                   Child-1
                                                      Child-2
Resource Block
                                      C1-res-<name>
                                                         C2-res-<name>
                                                                           C11-res-<name>
                   root-res-<name>
Module Block
                   root-mod-<name>
                                      C1-mod-<name>
                                                         C2-mod-<name>
                                                                           C11-mod-<name>
variable
                   root-var-<name>
                                      C1-var-<name>
                                                         C2-var-<name>
                                                                           C11-var-<name>
                   root-out-<name>
                                      C1-out-<name>
                                                         C2-out-<name>
                                                                           C11-out-<name>
```

```
Root Module Directory
 - main.tf
  variables.tf
  outputs.tf
   provider.tf
   terraform.tfvars
   modules
      child-1_module
        main.tf
       — variables.tf
       - outputs.tf
       └─ modules
           - child-1-1_module
                 main.tf
                variables.tf
              └─ outputs.tf
       child-2_module
         - main.tf
       variables.tf
       └─ outputs.tf
```

Terraform – Without Module

```
terraform.tfvars ×
TF_Venki > Module > lab1 > * terraform.tfvars > @ root_var_ami
  1 root_var_ami = "ami-0e534f3e5321ed9ed"
y variable.tf U X
TF_Venki > Module > lat 1 > " variable.tf > ...
  1 # Root Module - variables.tf
                                                                    ₩ main.tf U X
                                                                     TF_Venki > Module > lab1 > Y main.tf > ...
       variable "root_var_ami"
        description = "AMI ID for the EC2 instance"
                                                                       1 # Root Module - main.tf
        type
                     = string
                                                                       3 resource "aws_instance" "root_res_ec2" {
                                                                                            = var.root_var_ami
                                                                              instance_type = "t2.micro"
                                                                           outputtf U X
                                                                           TF_Venki > Module > lab1 > 💙 output.tf > 😭 output "root_out_publicip" > 🖃 value
                                                                                  output "root_out_publicip" {
                                                                                  description = "Public IP address of the EC2 instance"
                                                                                                = aws_instance.root_res_ec2.public_ip
```



- 1. TF Vars
- 2. Providers File Remote
- 3. Data source
- 4. Module (s)

