Terraform import using Module

Task 1.7 → Terraform import using Module that supports for each concept

Step:1 I created two folders for two modules **Child-Module, Parent-Module,** Inside the module I created **main.tf, variables.tf & terraform.tfvars**

```
ズ File Edit Selection View Go Run ⋅・・・
                                                                                                                                       EXPLORER
                                 main.tf
C

✓ TERRA-AUTO

                                 1.7 Import Module For-Each > Child-Module > 💜 main.tf > 😭 module "vpc" > 🕪 for_each
      > 1.1 Import CMD
                                   1 provider "aws" {
                                          region = var.region
       > 1.2 Import To-Id
       > 1.3 Import VPC
       > 1.4 Import Using Py
                                    5 # Create VPC1 and VPC2
       > 1.5 Module Own
       > 1.6 Module Terra
                                          source
                                          for_each = { for k, v in var.vpcs : k => v if k != "Default_VPC" }
       ∨ 1.7 Import Module For-Each
cidr_block = each.value.cidr_block

∨ Child-Module

                                          vpc_name = each.key
         > .terraform
        import.tf
                                        # Do not create Default VPC, only import it
        terraform.tfvars
                                        resource "aws_vpc" "default_vpc" {
                                          for_each = { Default_VPC = var.vpcs["Default_VPC"] }
        y variables.tf

∨ Parent-Module

                                          cidr_block = each.value.cidr_block
         main.tf
        🕎 variables.tf
                                          tags = {
       > PDF
                                            Name = "Default_VPC"
```

Step:2 After creating module I will initializing the terraform file → terraform init

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                                  TERMINAL
PS C:\Users\GowthamSamaraj\OneDrive - Codin City\Desktop\Codincity\Project Support\Terra-Auto\1.7 Import Module For-Each\Child-Module>
Initializing the backend...
Initializing modules...
- vpc in ..\Parent-Module
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.70.0..
- Installed hashicorp/aws v5.70.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.
Terraform has been successfully initialized!
any changes that are required for your infrastructure. All Terraform commands
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
```

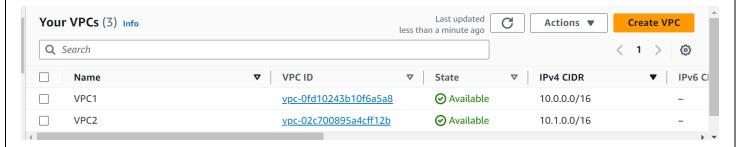
Step:3 → terraform plan

```
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                                  TERMINAL
 terraform plan
aws_vpc.default_vpc["Default_VPC"]: Preparing import... [id=vpc-0ac3883de5bde45b6]
aws_vpc.default_vpc["Default_VPC"]: Refreshing state... [id=vpc-0ac3883de5bde45b6]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following
symbols:
  + create
Terraform will perform the following actions:
  # aws_vpc.default_vpc["Default_VPC"] will be imported
   resource "aws_vpc" "default_vpc" {
                                            = "arn:aws:ec2:us-east-1:339713187727:vpc/vpc-0ac3883de5bde45b6"
        arn
        assign_generated_ipv6_cidr_block
                                            = false
                                            = "172.31.0.0/16"
        cidr_block
                                            = "acl-01693ee5160155dc0"
        default_network_acl_id
                                            = "rtb-0cf454d4d34bae4bb"
        default_route_table_id
                                            = "sg-0a2929bc0cc568a1f"
        default_security_group_id
        dhcp_options_id
                                             = "dopt-09cd5f3382f696b6f"
                                             = true
        enable dns hostnames
        enable_dns_support
                                            = true
        enable_network_address_usage_metrics = false
        id
                                            = "vpc-0ac3883de5bde45b6"
                                             = "default"
        instance_tenancy
        ipv6_association_id
        ipv6_cidr_block
        ipv6_cidr_block_network_border_group = null
                                                                                                  Activate Windows
        ipv6_ipam_pool_id
                                            = null
        ipv6_netmask_length
                                            = 0
```

Step:4 → terraform apply –auto-approve

```
TERMINAL PORTS
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PS C:\Users\GowthamSamaraj\OneDrive - Codin City\Desktop\Codincity\Project Support\Terra-Auto\1.7 Import Module For-Each\Child-Module>
 terraform apply --auto-approve
aws_vpc.default_vpc["Default_VPC"]: Preparing import... [id=vpc-0ac3883de5bde45b6]
aws_vpc.default_vpc["Default_VPC"]: Refreshing state... [id=vpc-0ac3883de5bde45b6]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following
symbols:
  + create
Terraform will perform the following actions:
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    resource "aws_vpc" "default_vpc" {
                                            = "arn:aws:ec2:us-east-1:339713187727:vpc/vpc-0ac3883de5bde45b6"
        arn
        assign_generated_ipv6_cidr_block
                                            = "172.31.0.0/16"
        cidr_block
                                            = "acl-01693ee5160155dc0"
        default_network_acl_id
                                            = "rtb-0cf454d4d34bae4bb"
       default_route_table_id
                                            = "sg-0a2929bc0cc568a1f"
       default_security_group_id
                                            = "dopt-09cd5f3382f696b6f"
        dhcp_options_id
        enable_dns_hostnames
                                            = true
        enable_dns_support
                                            = true
        enable_network_address_usage_metrics = false
                                            = "vpc-0ac3883de5bde45b6"
        id
                                            = "default"
        instance_tenancy
        ipv6_association_id
                                            = null
                                                                                                 Activate Windows
        ipv6 cidr block
        ipv6_cidr_block_network_border_group = null
        ipv6_ipam_pool_id
```

Step:5 The VPC has been created



Step:6 As per the scenario two VPC has been created, One VPC has been imported

```
aws_vpc.default_vpc["Default_VPC"]: Importing... [id=vpc-0ac3883de5bde45b6]
aws_vpc.default_vpc["Default_VPC"]: Import complete [id=vpc-0ac3883de5bde45b6]
module.vpc["VPC2"].aws_vpc.my_vpc: Creating...
module.vpc["VPC1"].aws_vpc.my_vpc: Creating...
module.vpc["VPC1"].aws_vpc.my_vpc: Still creating... [10s elapsed]
module.vpc["VPC2"].aws_vpc.my_vpc: Still creating... [10s elapsed]
module.vpc["VPC2"].aws_vpc.my_vpc: Creation complete after 18s [id=vpc-02c700895a4cff12b]
module.vpc["VPC1"].aws_vpc.my_vpc: Creation complete after 18s [id=vpc-0fd10243b10f6a5a8]

Apply complete! Resources: 1 imported, 2 added, 0 changed, 0 destroyed.
```

Step:7 This is the flow of using modules

