## CDEC-B24

## Vaibhav Navneet Jorvekar

Create vpc, pub and priv subnet, route table, and IGW in module for terraform

• Main file vpc code

```
main.tf ...\vpc × main.tf ...\dev
                                                                                                                                  rofile.tf
                                                                                                                                                         output.tf
                                                                 provider "aws" []
region = "us-west-1"
access_key = "AKIARVF2DVWRA76MY7BZ"
secret_key = "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"
]
    main.tf
    y profile.tf
                                                                  #create vpc
resource "aws_vpc" "this_vpc" {
    | cidr_block = var.aws_vpc_cidr_block//"26.11.0.0/16"
   {} terraform.tfstate
    main.tf
   profile.tf
                                                                        tags = {
  Name = var.aws_vpc_tags//"My_vpc"
    main.tf
    profile.tf

∨ resource

                                                                  #create public subnet
resource "aws_subnet" "public_sub" {
    vpc_id = aws_vpc.this_vpc.id
    cidr_block = var.public_sub_cidr_block//"26.11.0.0/17"

∨ vpc

    main.tf
                                                                              Name = var.public_sub_tags//"public_subnet"
    y output.tf
   var.tf
                                                                        map_public_ip_on_launch = var.public_sub_Mapping //true  #to give internet access
✓ TIMELINE main.tf
O File Saved
                                                                  #create private subnet
resource "aws_subnet" "private_sub" {
                                                                     vpc_id = aws_vpc.this_vpc.id
cidr_block = var.private_sub_cidr_block//"26.11.128.0/18"
```

```
main.tf ...\vpc × main.tf ...\dev
                                                                                                                                  rofile.tf
                                                                                                                                                        voutput.tf
                                                        resource > vpc > wmain.tf > sprovider "aws"

39 resource "aws_subnet" "private1_sub" {
∨ B24MODUAL
 ∨ modual
   > .terraform
   y .terraform.lock.hcl
   {} terraform.tfstate
                                                                     cidr_block = "0.0.0.0/0"
gateway_id = aws_internet_gateway.IGW.id
                                                                    tags = {
                                                                        Name = var.aws_default_route_table_tags
   main.tf
   ∨ vpc
                                                                   resource "aws_internet_gateway" "IGW" {
   > .terraform
   terraform.lock.hcl
                                                                        tags = {
                                                                           Name = var.aws_internet_gateway_tags
    🍟 main.tf
   y output.tf
   y var.tf
✓ TIMELINE main.tl
                                                                 #create subnet associate route table
resource "aws_route_table_association" "this_rta" {
    subnet_id = aws_subnet.public_sub.id
    route_table_id = aws_default_route_table.this_d_rt.id
O File Saved
```

## • Vpc variable code

O File Saved

```
⋈ Welcome
                                                                    main.tf ...\vpc
                                                                                       main.tf ...\dev
                                                                                                              rofile.tf
                                                                                                                                voutput.tf
                                                                                                                                                  yar.tf
巾
                                 다 무 다 이 🗗 resource > vpc > 🦞 var.tf > ધ variable "public_sub_tags"
      ∨ B24MODUAL

∨ modual

         terraform.lock.hcl
         main.tf
         {} terraform.tfstate
         main.tf
         profile.tf

✓ test

          main.tf
         profile.tf

√ resource

 Y
         terraform.lock.hcl
          main.tf
                                                              /* type = string //map
default = "Public-subnet"
         voutput.tf
                                                               /* {
| Name= "Public-subnet"
} */

✓ TIMELINE var.tf

    File Saved

       O File Saved
(Q)
      O File Saved
       O File Saved
      O File Saved
                                                                 ❤ main.tf ...\vpc
                                               × Welcome
                                                                                                       rofile.tf
                                                                                                                          💜 output.tf
                                                                                                                                           var.tf
    ∨ B24MODUAL
                                                resource > vpc > 🐈 var.tf > 😭 variable "public_sub_tags"
                                                 22 variable "public_sub_tags" {

∨ modual

✓ dev

       > .terraform
                                                  30 ∨ variable "public_sub_Mapping" {
       y .terraform.lock.hcl
       main.tf
       y profile.tf

✓ prod

       profile.tf
       ∨ test
       main.tf
       ∨ vpc
       > .terraform
       terraform.lock.hcl
       main.tf
       voutput.tf

✓ TIMELINE var.tf

     O File Saved
     O File Saved
     O File Saved
```

Output

```
EXPLORER
                                                 ⋈ Welcome
                                                                   main.tf ...\vpc
                                                                                       main.tf ...\dev
                                                                                                           profile.tf
D
    ∨ B24MODUAL
                                                 resource > vpc > 🍟 output.tf > 😭 output "public_sub_cidr_block"
                                                         output "aws_vpc_id" {

✓ modual

                                                             description ="VPC ID"

✓ dev

                                                             value = aws_vpc.this_vpc.id
        > .terraform
        terraform.lock.hcl
        main.tf
                                                         output "public_sub_cidr_block" {
        y profile.tf
                                                         description ="PublicSubID"
                                                           value = aws_subnet.public_sub.id
        {} terraform.tfstate

✓ prod

        main.tf
        y profile.tf

✓ test

        main.tf
        y profile.tf
```

## • Dev/Main file module 3 0 1 E 3 T

```
⋈ Welcome
                                                               main.tf ...\vpc

▼ main.tf ...\dev × ▼ profile.tf

                                                                                                                           voutput.tf
                                              modual > dev > 🍟 main.tf > ધ module "vpc"

√ B24MODUAI

                                                   module "vpc" {|
source = "/mnt/e/b24modual/resource/vpc"

✓ modual

✓ dev

                                                      aws_vpc_cidr_block="26.11.0.0/16"
   > .terraform
                                                      aws_vpc_tags="Myvp
    terraform.lock.hcl
                                                     public_sub_cidr_block="26.11.0.0/17"
   main.tf
                                                      public_sub_tags="Public-subnet"
    y profile.tf
                                                      public_sub_Mapping= true
   {} terraform.tfstate
                                                      private_sub_cidr_block="26.11.128.0/19"
                                                      private_sub_tags="private-subnet'
                                                      priavte_sub_Mapping=false
   main.tf
                                                      private1 sub cidr block="26.11.192.0/20"
   y profile.tf
                                                     private1_sub_tags="private1-subnet
aws_internet_gateway_tags="TF-IGW"
   ∨ test
    main.tf
                                                      aws_default_route_table_tags="TF-RT"
    y profile.tf
  ∨ resource
                                                      priavte1_sub_Mapping=false
   > ec2
    > .terraform
    terraform.lock.hcl
    main.tf
```

Terraform apply

```
enable_network_address_usage_metrics = (known after apply)
                                                                                                  (known after apply)
              id
              instance_tenancy
                                                                                                   "default"
              ipv6_association_id
ipv6_cidr_block
                                                                                                  (known after apply)
                                                                                                  (known after apply)
              ipv6_cidr_block_network_border_group = (known after apply)
main_route_table_id = (known after apply)
                                                                                             = (known after apply)
                                                                                             = (known after apply)
              owner_id
              tags
                       "Name" = "Myvpc"
              tags_all
+ "Name" = "Myvpc"
                                                                                             = {
lan: 7 to add, 0 to change, 0 to destroy.
odule.vpc.aws_vpc.this_vpc: Creating...
odule.vpc.aws_vpc.this_vpc: Creation complete after 5s [id=vpc-0b94dfdbc9c8cdfb7]
odule.vpc.aws_internet_gateway.IGW: Creating...
odule.vpc.aws_subnet.privatel_sub: Creating...
 odule.vpc.aws_subnet.public_sub: Creating...
odule.vpc.aws_subnet.private_sub: Creating...
odule.vpc.aws_subnet.private_sub: Creation complete after 3s [id=subnet-02c3400329c3c013a]
odule.vpc.aws_subnet.private_sub: Creation complete after 3s [id=subnet-0dfcf1314b0905990]
odule.vpc.aws_subnet.private_sub: Creation complete arter 3s [id=subnet-02c3+060322c5c615a]
odule.vpc.aws_subnet.private1_sub: Creation complete after 3s [id=subnet-0dfcf1314b0905990]
odule.vpc.aws_internet_gateway.IGW: Creation complete after 3s [id=igw-08d4512cb0fbdd6c8]
odule.vpc.aws_default_route_table.this.d_rt: Creating.complete.after 2s [id=rth-043d2873=044
odule.vpc.aws_default_route_table.this_d_rt: Creating...
odule.vpc.aws_default_route_table.this_d_rt: Creation complete after 2s [id=rtb-043d2873a0475956a]
odule.vpc.aws_subnet.public_sub: Still creating... [10s elapsed]
odule.vpc.aws_subnet.public_sub: Creation complete after 14s [id=subnet-0f5c8254797e8d9e6]
odule.vpc.aws_route_table_association.this_rta: Creating...
odule.vpc.aws_route_table_association.this_rta: Creation complete after 1s [id=rtbassoc-07b04dc6e8e584d9d]
  pply complete! Resources: 7 added, 0 changed, 0 destroyed.
aibhav@DESKTOP-P3NSBEM:/mnt/e/b24modual/modual/dev$|
```

albhav Jorvekar

• Create vpc with subnet, route table, igw

