

Create AWS VPC using TERRAFORM

Screenshot showing “terraform init” output

```
Git@christ2222 MINGW64 ~/OneDrive/Desktop/CLOUDSPACE/HOMEWORKS/TERRAFORM/TERRAFORM_Create_Vpc
$ terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.62.0

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
```

Screenshot showing that “Terraform validate” output

```
Git@christ2222 MINGW64 ~/OneDrive/Desktop/CLOUDSPACE/HOMEWORKS/TERRAFORM/TERRAFORM_Create_Vpc
$ terraform validate
Success! The configuration is valid.
```

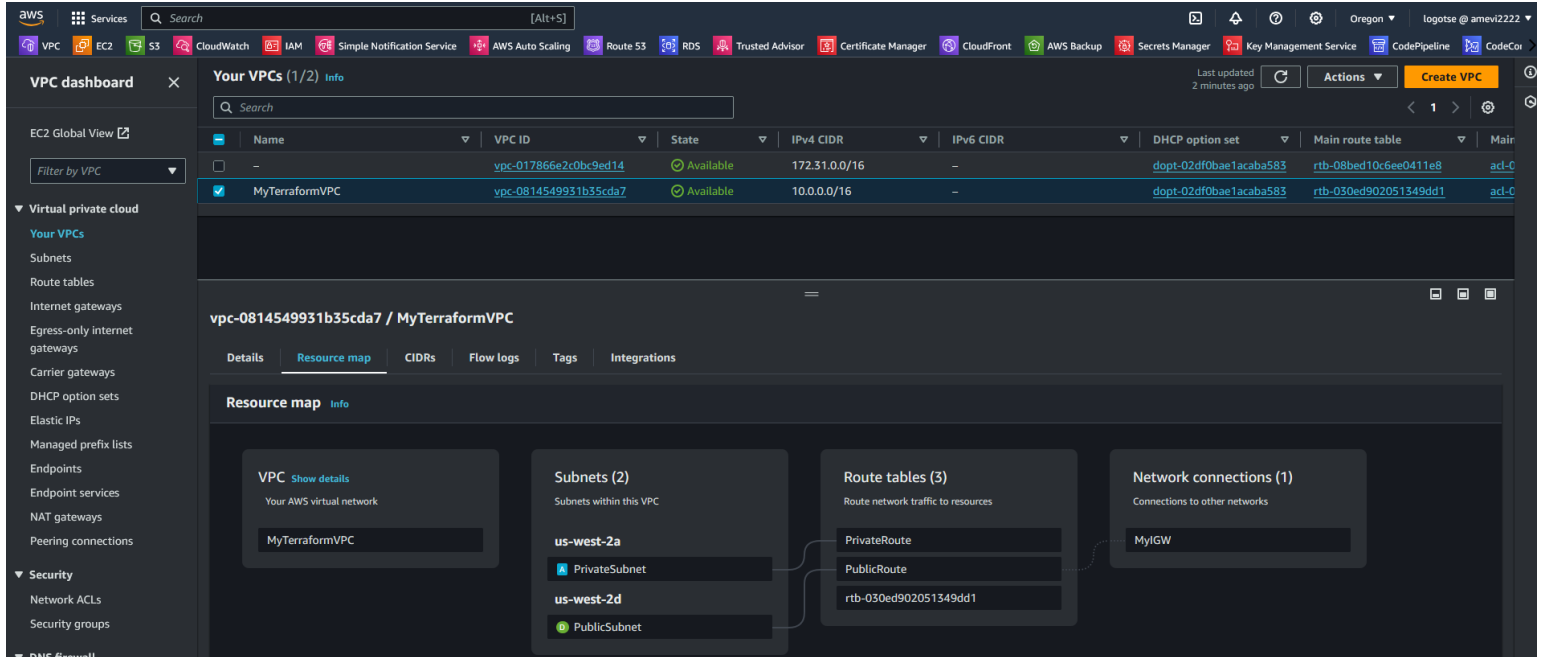
Screenshot showing that Terraform apply output in CLI

```
aws_vpc.terraform_vpc: Creating...
aws_vpc.terraform_vpc: Creation complete after 3s [id=vpc-0814549931b35cda7]
aws_internet_gateway.my_igw: Creating...
aws_route_table.private_route: Creating...
aws_subnet.public_subnet: Creating...
aws_subnet.private_subnet: Creating...
aws_route_table.private_route: Creation complete after 0s [id=rtb-0074181f8be9206d2]
aws_internet_gateway.my_igw: Creation complete after 1s [id=igw-0970edc4c0902d68a]
aws_route_table.public_route: Creating...
aws_subnet.private_subnet: Creation complete after 1s [id=subnet-0887bd83474aa025d]
aws_network_acl_association.PrivNaclAssociation: Creating...
aws_route_table_association.private_rta: Creating...
aws_route_table_association.private_rta: Creation complete after 0s [id=rtbassoc-01ce04599b7f0f74c]
aws_network_acl_association.PrivNaclAssociation: Creation complete after 0s [id=aassoc-0bc2101f4776d78fb]
aws_route_table.public_route: Creation complete after 1s [id=rtb-00e18a456a6d2099e]
aws_subnet.public_subnet: Still creating... [10s elapsed]
aws_subnet.public_subnet: Creation complete after 11s [id=subnet-0ada086f6fbaf44b4]
aws_network_acl_association.PubNaclAssociation: Creating...
aws_route_table_association.public_rta: Creating...
aws_route_table_association.public_rta: Creation complete after 1s [id=rtbassoc-017d5e3394199de0d]
aws_network_acl_association.PubNaclAssociation: Creation complete after 1s [id=aassoc-0d53dea7d0c279f20]

Apply complete! Resources: 10 added, 0 changed, 0 destroyed.
```

Git@christ2222 MINGW64 ~/OneDrive/Desktop/CLOUDSPACE/HOMEWORKS/TERRAFORM/TERRAFORM_Create_Vpc

Screenshot showing VPC created in the console



VPC dashboard

Your VPCs (1/2)

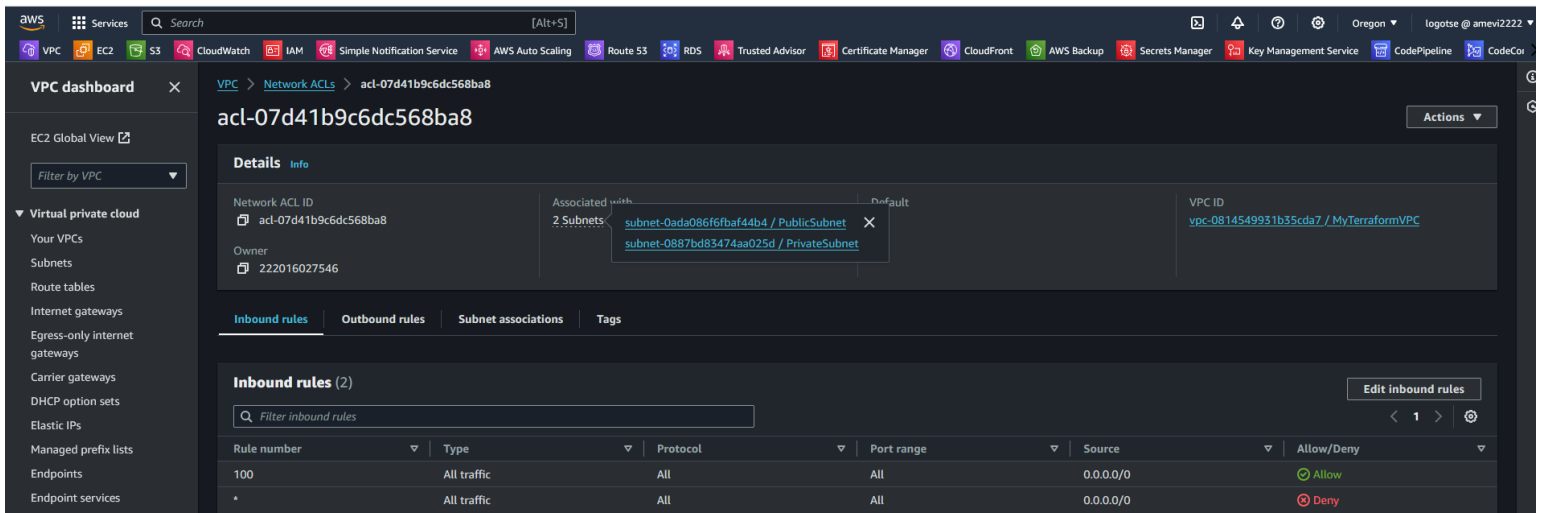
Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set	Main route table	Main
-	vpc-017866e2c0bc9ed14	Available	172.31.0.0/16	-	dopt-02df0bae1acaba583	rtb-08bed10c6ee0411e8	acl-0
MyTerraformVPC	vpc-0814549931b35cda7	Available	10.0.0.0/16	-	dopt-02df0bae1acaba583	rtb-030ed902051349dd1	acl-0

vpc-0814549931b35cda7 / MyTerraformVPC

Resource map

- VPC** (Show details): Your AWS virtual network. MyTerraformVPC.
- Subnets (2)**: Subnets within this VPC.
 - us-west-2a: PrivateSubnet
 - us-west-2d: PublicSubnet
- Route tables (3)**: Route network traffic to resources.
 - PrivateRoute
 - PublicRoute
 - rtb-030ed902051349dd1
- Network connections (1)**: Connections to other networks.
 - MyIGW

Screenshot showing the default NACL associated with the public and private subnet



VPC > Network ACLs > acl-07d41b9c6dc568ba8

acl-07d41b9c6dc568ba8

Details

- Network ACL ID: acl-07d41b9c6dc568ba8
- Owner: 222016027546
- Associated with: 2 Subnets
 - subnet-0ada086f6fbaf44b4 / PublicSubnet
 - subnet-0887bd83474aa025d / PrivateSubnet
- Default: [X]
- VPC ID: vpc-0814549931b35cda7 / MyTerraformVPC

Inbound rules (2)

Rule number	Type	Protocol	Port range	Source	Allow/Deny
100	All traffic	All	All	0.0.0.0/0	Allow
*	All traffic	All	All	0.0.0.0/0	Deny