

## VPC Creation with Terraform

**Step 1 : Goto VS Code, Open the folder of Terraform, enter the following code save as main.tf.**

```
provider "aws" {  
    region="us-east-1"  
    access_key = "AKIA6LFFGBWBZ53D45FS"  
    secret_key = "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"  
}  
  
resource "aws_vpc" "vpc" {  
    cidr_block = "10.0.0.0/16"  
    tags = {  
        Name = "vpc-terraform"  
    }  
}  
  
resource "aws_subnet" "subnet1" {  
    vpc_id = aws_vpc.vpc.id  
    cidr_block = "10.0.1.0/24"  
}
```

**Step 2: Goto Terminal >> Enter Terraform init(required for first time)**

**>> enter terraform apply -auto-approve**

### Step 3: Now Check In AWS management console >> VPC and subnet Created

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#### Your VPCs (1/3) Info

Filter VPCs

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR
-	vpc-074e91cf419973d02	Available	172.30.0.0/16	-
-	vpc-07858f2d50a4bce0a	Available	172.31.0.0/16	-
<input checked="" type="checkbox"/> vpc-terraform	vpc-0cd1e31ca85570886	Available	10.0.0.0/16	-

VPC ID: vpc-0cd1e31ca85570886  
State: Available  
DNS hostnames: Disabled  
DNS resolution: Enabled  
Tenancy: Default  
DHCP options set: dopt-004de15ce9e77a300  
Main route table: rtb-056593017a92b2871  
Main network ACL: acl-05b003c8a7ea09572  
Default VPC: No  
IPv4 CIDR: 10.0.0.0/16  
IPv6 pool: -  
IPv6 CIDR (Network border group): -

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#### Subnets (1/13) Info

Filter subnets

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR
-	subnet-0c9f41d98a3aa7518	Available	vpc-074e91cf419973d02	172.30.4.0/24	-
-	subnet-0bb911819f48faedd	Available	vpc-03858f2d50a4bce0a	172.31.48.0/20	-
-	subnet-0b1665368b52dd718	Available	vpc-03858f2d50a4bce0a	172.31.64.0/20	-
-	subnet-08e4e07519e9b0c	Available	vpc-074e91cf419973d02	172.30.1.0/24	-
<input checked="" type="checkbox"/> -	subnet-06990fff94e15ac89	Available	vpc-0cd1e31ca85570886   vpc-terraform	10.0.1.0/24	-
-	subnet-0fc9237eb439731a0	Available	vpc-03858f2d50a4bce0a	172.31.0.0/20	-
-	subnet-059a490a41effe3cf	Available	vpc-074e91cf419973d02	172.30.0.0/24	-

Subnet ID: subnet-06990fff94e15ac89  
Subnet ARN: arn:aws:ec2:us-east-1:986041421187:subnet/subnet-06990fff94e15ac89  
Available IPv4 addresses: 251  
Network border group: us-east-1  
Default subnet: No  
State: Available  
Availability Zone: us-east-1c  
Route table: rtb-056593017a92b2871  
Auto-assign IPv6 address: No  
IPv4 CIDR: 10.0.1.0/24  
Availability Zone ID: use1-az1  
Network ACL: acl-05b003c8a7ea09572  
Auto-assign customer-owned IPv4 address: -