1. Create Ec2 Instance

resource "aws\_instance" "web" {

ami = data.aws\_ami.ubuntu.id(copy in ec2)

instance\_type = "t3.micro"

tags = {

Name = "Nexsoft"

}

}

Now want to create 10 ec2 instances at a time

resource "aws\_instance" "web" {

ami = data.aws\_ami.ubuntu.id(copy in ec2)

instance\_type = "t3.micro"

Count = 10

tags = {

Name = "Nexsoft"

}

}

1. Now I want to change config from t3.micro to t2.small

resource "aws\_instance" "web" {

ami = data.aws\_ami.ubuntu.id(copy in ec2)

instance\_type = "t2.small"

Count = 10

tags = {

Name = "Nexsoft"

}

}

1. Now adding security group

Go though below link for the script

<https://registry.terraform.io/providers/hashicorp/aws/latest/docs/resources/security_group>

1. Check the basic details and fill in the terraform file
2. Add VPC ID copy from ec2
3. Next Inbound and outbound rules to add similar with ingrees and egresss
4. So now create 3 security in the group for allowing HTTP/HTTPS/SSH traffic in various ports

resource "aws\_security\_group" "TF\_SG" {

name = "allow\_tls"

description = "Allow TLS inbound traffic"

vpc\_id = aws\_vpc.main.id(copy VPC ID from ec2)

ingress {

description = "HTTPS"

from\_port = 443

to\_port = 443

protocol = "tcp"

cidr\_blocks = ["0.0.0.0/0"]

ipv6\_cidr\_blocks = ["::/0"]

}

ingress {

description = "HTTP"

from\_port = 80

to\_port = 80

protocol = "tcp"

cidr\_blocks = ["0.0.0.0/0"]

ipv6\_cidr\_blocks = ["::/0"]

}

ingress {

description = "SSH"

from\_port = 22

to\_port = 22

protocol = "tcp"

cidr\_blocks = ["0.0.0.0/0"]

ipv6\_cidr\_blocks = ["::/0"]

}

egress {

from\_port = 0

to\_port = 0

protocol = "-1"

cidr\_blocks = ["0.0.0.0/0"]

ipv6\_cidr\_blocks = ["::/0"]

}

tags = {

Name = "TF\_SG"

}

}

To Add security group to our instance

Use parameter

Security\_groups = [“aws\_security\_group.TF\_SG.name”]

Now apply the terraform a securitry group created in your instance