Terraform Examples

1. Example - SSH to server through security group

```
provider "aws" {
profile = "ritesh-devops"
region = "ap-south-1"
}

resource "aws_instance" "instance01" {
 ami = "ami-04db49c0fb2215364"
 instance_type = "t2.micro"
 key_name = "demo-devops"
 tags = {
   Name = "terraform-example"
 }
 security_groups = ["${aws_security_group.AWSaccess.name}"]
}

resource "aws_eip" "newIP" {
 instance = aws_instance.instance01.id
 vpc = true
}

resource "aws_security_group" "AWSaccess" {
 name = "AWSaccess"
 description = "SSH access"

 ingress {
 protocol = "tcp"
 from_port = 22
 to_port = 22
 cidr_blocks = ["0.0.0.0/0"]
 }
}
```

2. Example - Custom key-pair value

```
provider "aws" {
profile = "ritesh-devops"
region = "ap-south-1"
}

resource "aws_key_pair" "awsKey" {
 key_name = "appserverKey"
 public_key = "${file("AWSaccess.pub")}"
}
```

```
resource "aws_instance" "instance01" {
 ami = "ami-04db49c0fb2215364"
 instance_type = "t2.micro"
 key_name = aws_key_pair.awsKey.key_name
 tags = {
   Name = "terraform-example"
 }
 security_groups = ["${aws_security_group.AWSaccess.name}"]
}

resource "aws_eip" "newIP" {
 instance = aws_instance.instance01.id
 vpc = true
}

resource "aws_security_group" "AWSaccess" {
 name = "AWSaccess"
 description = "SSH access"

 ingress {
 protocol = "tcp"
 from_port = 22
 to_port = 22
 cidr_blocks = ["0.0.0.0/0"]
 }
}
```

3. Example - Search ami and use it in resource

```
provider "aws" {
profile = "ritesh-devops"
region = "ap-south-1"
}

data "aws_ami" "latest_ami" {
most_recent = true
owners = ["591542846629"] # AWS

 filter {
   name   = "name"
   values = ["*amzn2-ami-kernel-5.10*"]
 }

 filter {
   name   = "virtualization-type"
   values = ["hvm"]
 }
```

```
}

output "amazon-ami" {
  value = "${data.aws_ami.latest_ecs.id}"
}

resource "aws_key_pair" "awsKey" {
 key_name = "appserverKey"
 public_key = "${file("$HOME/.ssh/id_rsa.pub")}"
}

resource "aws_instance" "instance01" {
 ami = data.aws_ami.latest_ecs.id
 instance_type = "t2.micro"
 key_name = aws_key_pair.awsKey.key_name
 tags = {
    Name = "terraform-example"
  }
 security_groups = ["${aws_security_group.AWSaccess.name}"]
}

resource "aws_eip" "newIP" {
 instance = aws_instance.instance01.id
 vpc = true
}

resource "aws_security_group" "AWSaccess" {
 name = "AWSaccess"
 description = "SSH access"

 ingress {
 protocol = "tcp"
 from_port = 22
 to_port = 22
 cidr_blocks = ["0.0.0.0/0"]
 }
}
```

Name: Ritesh Goyal
Contact: 9960930111
Email-id: ritesh.devopstrainer@gmail.com