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" "amazon-linux-2" {
 most_recent = true
 owners      = ["amazon"]

 filter {
  name   = "name"
  values = ["amzn2-ami-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"]
 }
}
```

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