

```
##FOR_EACH lecture
```

```
resource "aws_instance" "ec2" {
  for_each = var.server-az

  ami = data.aws_ami.amz_linux.image_id
  instance_type = "t2.micro"
  availability_zone = each.value
  tags = {
    name = "apache-server-${each.key}"
  }
}

resource "aws_iam_user" "cloud-team" {
  for_each = toset(["john", "susan", "sai"])

  name = each.key
}

resource "aws_subnet" "sub" {
  for_each =
  {us-east-1a="172.20.10.0/24", us-east-1b="17
  2.20.20.0/24", us-east-1c="172.20.30.0/24"}

  cidr_block = each.value
  vpc_id = "vpc-1324244244" ##use your vpc
  id##
```

```
availability_zone = each.key
tags = {
  zone = "subnet-${each.key}"
}
```

###data source for ami id for aws instance

```
data "aws_ami" "amz_linux" {
  owners = ["amazon"]
  most_recent = true

  filter {
    name = "name"
    values =
["amzn2-ami-hvm-2.0.20200722.0-x86*"]
  }
}
```

###variables

```
variable "server-az" {
  default =
{web_server_fin="us-east-1a",web_server_hr=
"us-east-1b",web_server_dev="us-east-1c"}
}
```

```
##provider used- please chose your region  
that suits best  
provider "aws" {  
    region = "us-east-1"  
}
```