



Lab: Terraform AWS Provider - Multi-Region and Alias

The provider `alias` allows Terraform to differentiate the two AWS providers.

- Task 1: Configure Multiple AWS Providers
- Task 2: Build Resources using provider alias

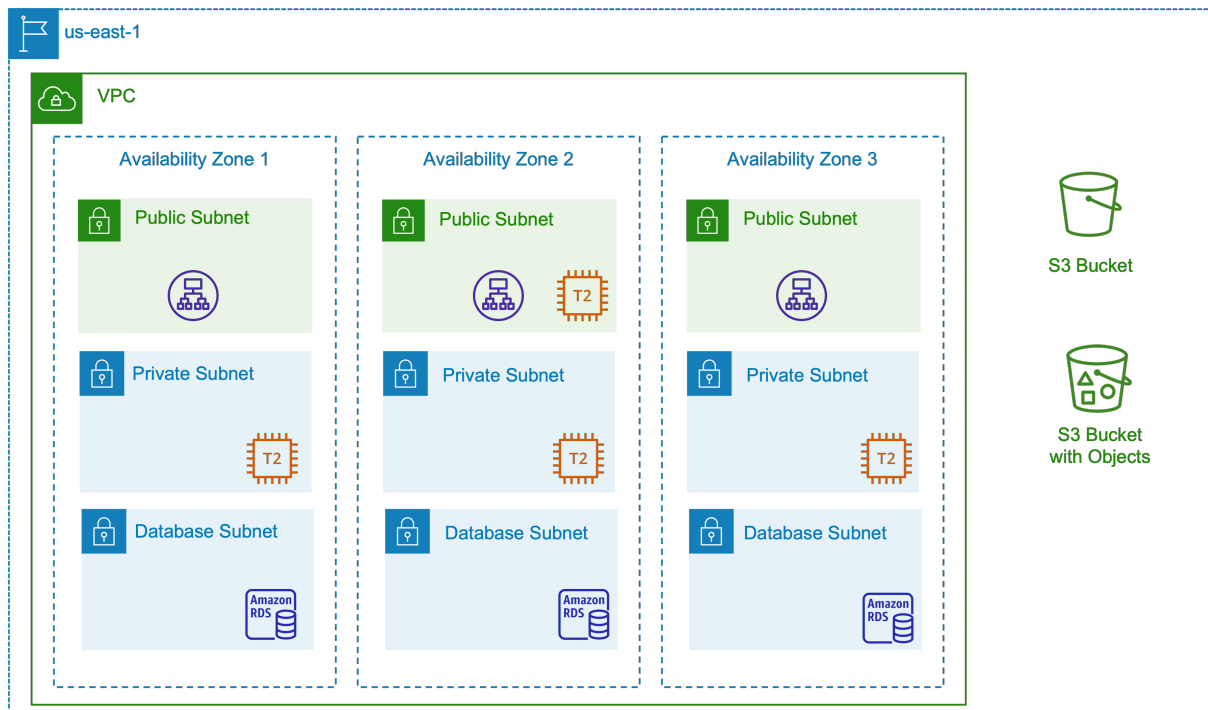


Figure 1: AWS Application Infrastructure Buildout

Task 1: Configure Multiple AWS Providers

```
provider "aws" {  
  alias   = "east"  
  region  = "us-east-1"  
}  
  
provider "aws" {  
  alias   = "west"  
  region  = "us-west-2"  
}
```





Task 2: Build Resources using provider alias

```
data "aws_ami" "ubuntu" {
  provider = aws.east
  most_recent = true

  filter {
    name = "name"
    values = ["ubuntu/images/hvm-ssd/ubuntu-focal-20.04-amd64-server-*"]
  }

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

  owners = ["099720109477"]
}

resource "aws_instance" "example" {
  provider = aws.east
  ami = data.aws_ami.ubuntu.id
  instance_type = "t2.micro"
  tags = {
    Name = "East Server"
  }
}

resource "aws_vpc" "west-vpc" {
  provider = aws.west
  cidr_block = "10.10.0.0/16"

  tags = {
    Name = "west-vpc"
    Environment = "dr_environment"
    Terraform = "true"
  }
}
```

Reference

Use AssumeRole to Provision AWS Resources Across Accounts

