

Lab: Deploy a Well-Architected VPC

Objective

Build a VPC with subnets, an Internet Gateway, and a public EC2 instance using Console and Terraform.

Part A: Console Steps

1. Create a VPC (CIDR: 10.0.0.0/16)
2. Add public and private subnets
3. Create and attach an Internet Gateway
4. Create a Route Table and associate it
5. Launch an EC2 instance into the public subnet

Part B: Terraform Steps

1. Review provided Terraform files
2. Run ``terraform init`` and ``terraform apply``
3. Verify infrastructure in AWS Console

Validation

- SSH to EC2
- Check public IP access
- Destroy resources with ``terraform destroy``