Infrastructure Flow:

1. VPC is created with CIDR block 10.0.0.0/16

2. A public subnet is created in us-east-1a (10.0.1.0/24)

3. Internet Gateway is attached to the VPC for internet connectivity

4. Route table is configured to route internet traffic (0.0.0.0/0) through the Internet Gateway

5. Security group is created allowing:

   - Inbound SSH access (port 22)

   - All outbound traffic

6. EC2 instance is launched:

   - t2.micro instance type

   - Public IP address assigned

   - Security group attached

   - Placed in the public subnet