DevOps Assignment

Note: Try to implement as much functionalities as possible and provide proper description wherever applicable

1. Cloud formation script to create below AWS components
   - VPC with two public and private subnets
   - Route tables for each subnet
   - Security Group to allow port 80 and 443
   - ELB and ALB
   - Private route53 hosted zone and CNAME entry for both ALB and ELB
   - IAM Policy for assignment-3

2. Ansible playbook to do following task
   - Pick a Linux AMI
   - Install webserver (Apache/Nginx)
   - Download code from git
   - Configure webserver with security best practices (List them)
   - Create a self-signed certificate
   - Secure a demo site using self-signed certificate

3. Execute Ansible playbook
   - Run Ansible playbook in a packer job and create AMI
   - Automatically create ASG using AMI created in above step and attach it to ELB.
   - Showcase capability of ALB, by created two different domain route policy.
   - Instance launched behind ELB/ALB should have role attached having access to s3 specific bucket, pull images from S3.

4. Create a script using any preferred programming language (python, Node.js, java etc.) to perform following activities
   - List AWS services being used region wise
   - List each service in detail, like EC2, RDS etc.