

Question 1

1. Sign in to the AWS Management Console and open the Amazon EC2 console
2. Click on Launch Instance
3. Choose the Amazon Linux AMI
4. Choose the t2.micro instance type, and then choose Next: Configure Instance Details.
5. Configure specifications of the instance and keep the rest as default and click on Add Storage
6. Keep the default storage settings and choose Next: Add Tags
7. Add tags and select Next: Configure Security Group
8. Create a new Security Group allowing - and click on Review and Launch
 - a. SSH access for only own IP
 - b. HTTP access for all other IPs
9. Review the instance settings and click on Launch
10. Create a new key pair as it will be used to connect to the EC2 instance and download the Key Pair, followed by clicking Launch Instances
11. Note the identifier for the EC2 instance and click on View Instances

1. After launching the EC2 instance, you need to SSH into your instance to install Apache
2. Change the permissions to enable SSH into EC2 - `chmod 400 krutik.pem`
3. SSH into the EC2 instance - `ssh -i krutik.pem ec2-user@13.58.204.96` (where user@publicIP)
4. As you are running on the EC2 instance
 - a. Elevate your privileges - `sudo su`
 - b. Update all packages of instance - `yum update -y`
 - c. Install Apache server - `yum install httpd -y`
 - d. Start webserver - `service httpd start`
 - e. Configure the web server to restart if it gets stopped - `chkconfig httpd on`

1. Now add the static file to the server
 - a. Navigate to the directory - `cd /var/www/html`
 - b. Manually creating index.html - `nano index.html`
 - c. Create the required page

1. To navigate to the page created, go on the Public IP of the instance followed by `/index.html`

1. To create a snapshot of the instance, from the EC2 dashboard navigate to Snapshots and click Create Snapshots
2. Select the resource type as Instance and select the EC2 instance as well as give description (optional), optionally add tags or import from root instance and click on create snapshot

1. To create and deploy on another region, select the snapshot and select Copy
2. Select the region on which you want to deploy and add a description, click on copy
3. Then go to that region in which the snapshot has been copied, select the snapshot and from action, copy image and save it
4. Launch the AMI instance from the AMI section of the console
5. Follow the deployment steps as of regular EC2 instance and then launch the instance
6. Use the public IP to navigate to the index.html of the other instance of other region

Screenshots

