Exercise13

Windows Web Server and Elastic File Storage (EFS)

1. Login to your IAM user
2. Create a VPC (if you do not have one)
3. Create a public windows ec2 instance [In the same AZ]
   a. Name *Windows Web Server*, choose Windows AMI; create a security group to allow RDP, http, and https traffic from anywhere
   b. Select the ec2 instance, click Connect, go to RDP client tab, click download remote desktop file, click Get password, click Upload private key file, upload the .pem file from your computer, click Decrypt password, copy the password, open the RDP client and use this password to login into the machine.
   c. Implement Web Server
      Search for server manager, click *Add roles and features,* click Next, click Next, click Next, check Webserver (IIS), click Add features, click Next several times and check *Restart the destination server automatically if required,* click Yes, click Install. After successful installation take a snapshot (with your IAM username) click Close.
   d. Create a web page
      Open a notepad, write the line, "Welcome to YourName's Web Server" [Make sure you replace YourName with your name!]. Give the name "default.htm" (with the double quotes) and save it in C:/inetpub/wwwroot. Take a snapshot (with your IAM username) Close the notepad.
   e. Connect to the web server from your browser
      Copy the public IP address, paste it in a new tab in your browser and hit enter. You will see the welcome message (that has your name). Take a snapshot (with your IAM username).
4. Create a public linux ec2 instance
   a. Name *Linux Web Server*; create a security group to allow ssh, http, https, and nfs traffic from anywhere
5. Create an EFS [In the same AZ]
   a. Search for EFS
   b. Click Create file system, give any name, select the same VPC, click Customize, select One Zone, unselect Enable automatic backup, unselect Enable encryption of data at rest (under Encryption), choose None for Transition into Archive, choose Bursting for Throughput mode, click Next, choose appropriate VPC, under Mount targets, choose appropriate subnet, choose the linux security group that you had created, click Next, click Next, click Create.
      i. Click View details, click Attach, copy the command under *Using the NFS client*
      ii. Access your linux web server using putty, type mkdir efs, type df -h, Take a snapshot (with your IAM username), paste the copied command and hit enter. Give the command df -h again. You should see the mount now. Take a snapshot (with your IAM username)
      iii. Type sudo umount efs
6. Upload all the screenshots from the above steps as indicated that confirm successful completion of the individual steps. **No points will be awarded if the IAM username is not there in a snapshot. No exceptions!**
7. **Cleanup:**
   a. Stop both the ec2 instances. **Do NOT terminate them.** We will use them in the next exercise.
   b. Delete the EFS

Sources: https://vipingupta.gumroad.com/