

Working with an EC2 instance

AWS - Assignment 1

Note(s):

1. Make sure you clean up your AWS environment once the project is complete to avoid incurring any unnecessary charges.

Task 1 (Deploy a new EC2 instance with apache)

- 1. Go to EC2 dashboard and click "Launch Instance"
- 2. Create an EC2 instance as per the following specifications:
 - AMI Amazon Linux 2 AMI
 - Instance Type t2.micro or t3.micro
 - VPC Default VPC
 - Storage Default
 - Security Group should allow port 80 and 22 ingress
 - User Data Put the following script in the user data section.

```
#!/bin/bash
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd
echo "Hello World from $(hostname -f)" >
/var/www/html/index.html
```



Task 2 (Create a new EBS Volume and attach it the EC2 instance)



Note(s): Before you start with this task, take a screenshot of the output for the command "Isblk". This will help us compare the disks once we have attached a new EBS volume.

- 1. Go to EC2 Dashboard
- 2. Go to Volumes and create a new volume with following details:
 - Size 20 GB
 - Type General Purpose SSD (gp3)
- 3. Attach this volume to your existing EC2 instance (Created in previous steps)
- 4. SSH into your EC2 instance via any method you prefer.
- 5. Check the output for command "IsbIk"
- 6. Validate if it shows the newly attached volume in your instance.

Task 3 (Create a Snapshot of your EBS Volume)

- 1. Go to EC2 Dashboard
- 2. Go to Elastic Block Store --> Snapshots
- 3. Take a snapshot of the newly created Volume
- 4. Check the snapshot in the list of Snapshots

Task 4 (Terminate All Resources)

- 1. Go to EC2 Dashboard
- 2. Terminate the EC2 instance you created in previous steps.
- 3. Delete the EBS Volume you created in previous steps
- 4. Delete the snapshot created in the previous steps

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Reference:

- Working with User data in AWS:
 https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/user-data.html
- EBS Snapshots: <u>https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-creating-snapshot.html</u>
- Create an EBS Volume: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-creating-volume.html
- Attach an EBS Volume to an EC2 instance: https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-attaching-volume.html