Challenge Lab: EC2 Instance Exercise

Duration

This lab takes approximately 55 minutes to complete.

Launch Your Lab Environment

1. At the top of these instructions, click | Start Lab | to launch this lab.

A Start Lab panel opens displaying the lab status.

2. Wait until you see the message "Lab status: ready", then click the X to close the Start Lab panel.

This lab a creates a new AWS account for you where you will create the resources needed to launch an EC2 instance and run a simple web application.

Your Challenge

- Create an Amazon Linux EC2 instance to run a simple web application. The general requirements are as follows:
 - Use the AWS console to launch the instance.
 - Use an Amazon Linux AMI and a T3 instance type with a size that is smaller than medium.
 - Launch the instance in a new VPC and a new subnet, and auto-assign its public IP address.
 - While creating your instance, in the user data, install and start the httpd service as your web server. Provide write permission to
 users to the web server's document root directory (/var/www/html).
 - Use a General Purpose SSD (gp2) volume type for the root volume.
 - Configure the instance and create the necessary resources to allow you to connect to it using SSH.
 - Capture a screenshot of the EC2 instance's System Log showing that the httpd service was successfully installed.
- Test your web server by deploying the simple web page below to it.
 - Open a SSH session to your EC2 instance.
 - Open a text editor and copy and paste the following HTML code:

```
<!DOCTYPE html>
<html>
<body>
<h1>YOUR-NAME's re/Start Project Work</h1>
EC2 Instance Challenge Lab
</body>
</html>
```

- Replace YOUR-NAME with your name and save the file as projects.html.
- o Place this file in the /var/www/html directory of your EC2 instance.
- Open a web browser and navigate to this sample webpage. Capture a screenshot showing that the page was successfully returned and displayed.

• Submit the screenshots that you captured to your instructor.

Hints:

- You will need to create a key pair and download its private key file to allow you to remotely connect via SSH to your EC2 instance.
- You will need to create an internet gateway and properly configure the subnet's route table in your VPC **before you launch your instance**.
- Make sure that you have the right security group settings. In particular, you should allow for HTTP traffic.
- Use the public IP address of the instance to access your webpage.