AWS EC2 Instance Management Manual

Accessing the AWS Management Console

1. At the upper-right corner, choose 'Start Lab'.

2. If you get an 'Access Denied' error, close the error box and retry.

3. The lab status is indicated by a red, yellow, or green circle.

4. When ready, choose the green circle next to AWS to open the AWS Console.

Task 1: Launching Your EC2 Instance

1. Navigate to EC2 in the AWS Console.

2. Choose 'Launch instance' and provide a name (e.g., Web Server).

3. Select 'Amazon Linux 2 AMI' as the AMI.

4. Choose 't3.micro' as the instance type.

5. Select 'Proceed without a key pair' (for this lab).

6. In Network settings, select 'Lab VPC' and configure security groups.

7. Enable termination protection under advanced details.

8. Use the following user data script:

```
#!/bin/bash
yum -y install httpd
systemctl enable httpd
systemctl start httpd
echo '<html><h1>Hello From Your Web Server!</h1></html>' > /var/www/html/index.html
```

9. Launch the instance and monitor its status.

Task 2: Monitoring Your Instance

1. View instance details, status checks, and monitoring metrics.

2. Use 'Get Instance Screenshot' for troubleshooting.

Task 3: Updating Security Group and Accessing the Web Server

1. Add an inbound rule to allow HTTP (port 80) traffic.

2. Copy the Public IPv4 address and access it via a browser.

Task 4: Resizing Your Instance

1. Stop the instance before resizing.

2. Change the instance type to 't3.small'.

3. Modify the EBS volume from 8 GiB to 10 GiB.

4. Start the instance again.

Task 5: Testing Termination Protection

1. Attempt to terminate the instance (it will fail due to protection).

2. Disable termination protection and retry termination.

This manual provides a step-by-step guide for launching, monitoring, and managing AWS EC2 instances.