Week 7 – Lab 1: Introduction to AWS IAM

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Date: 20/06/2024

Task 1: Create an AMI for Auto Scaling

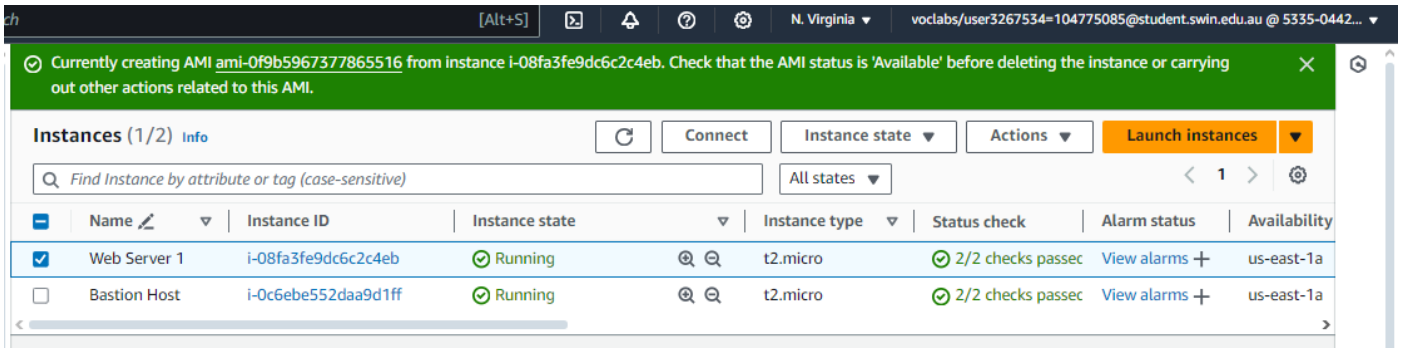


Figure 1: Create AMI for Web Server 1 instance.

Task 2: Create a Load Balancer

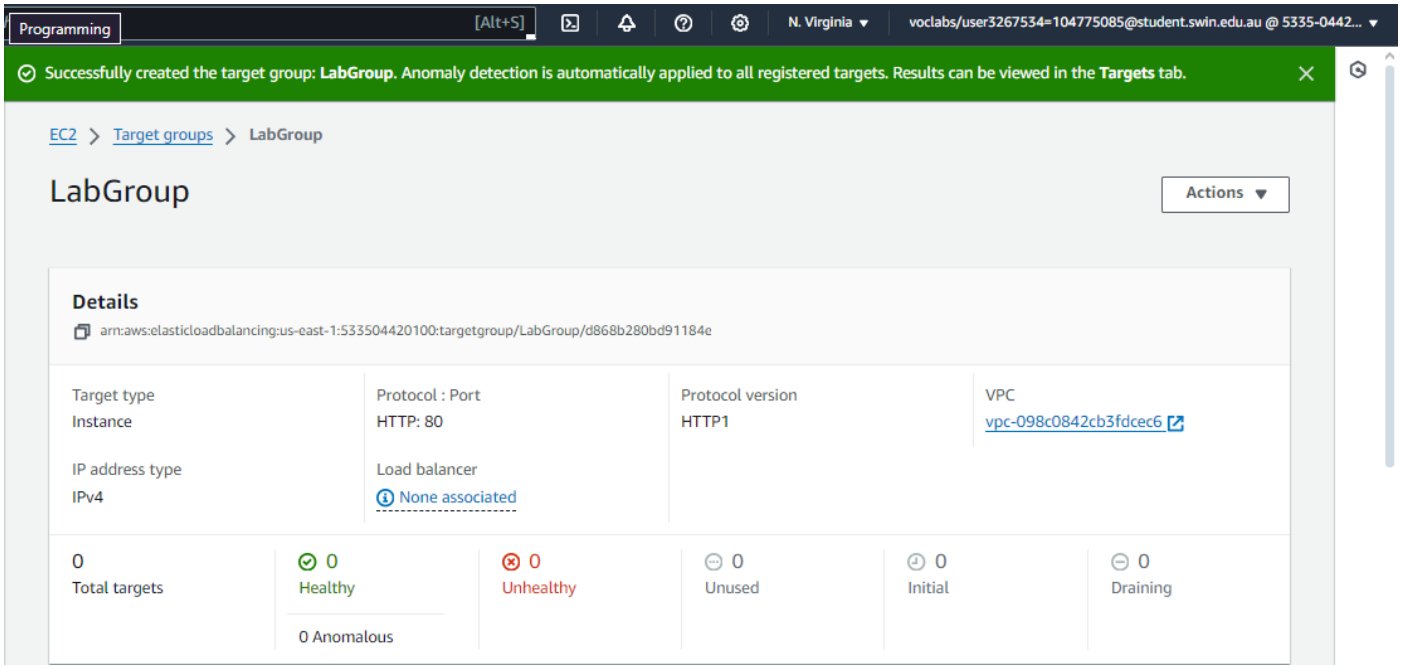


Figure 2: Create target group for instances.

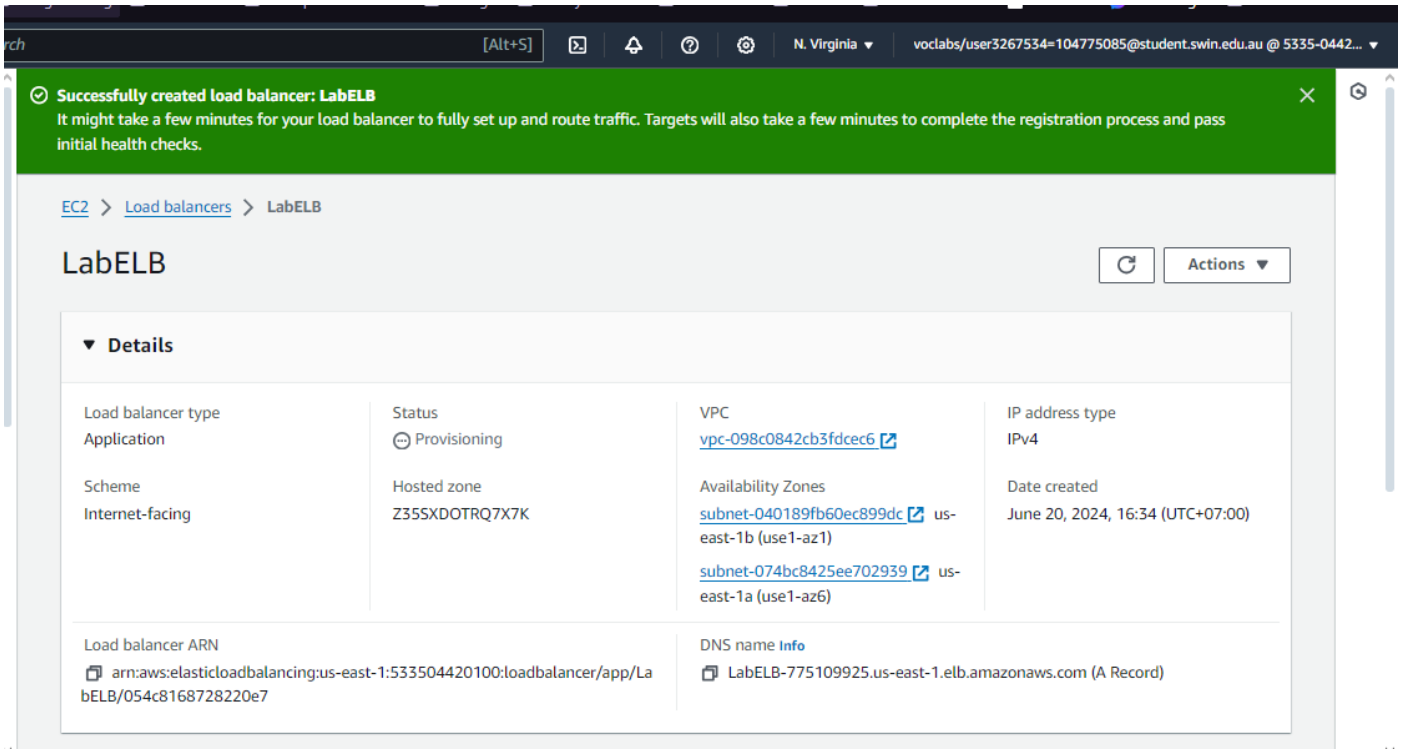


Figure 3: Create Load Balancer.

Task 3: Create a Launch Template and an Auto Scaling Group

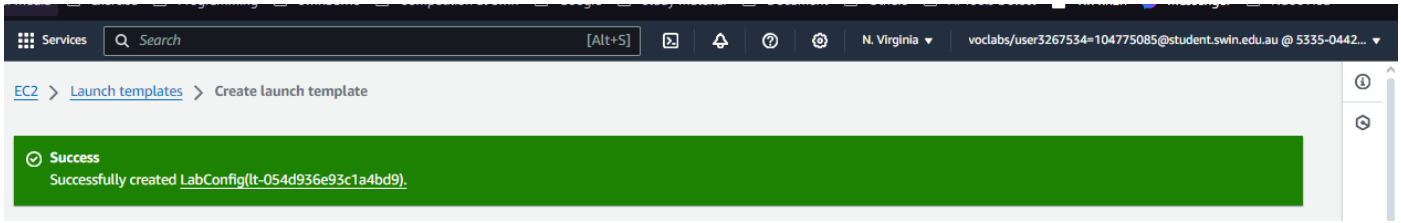


Figure 4: Create Launch Template.

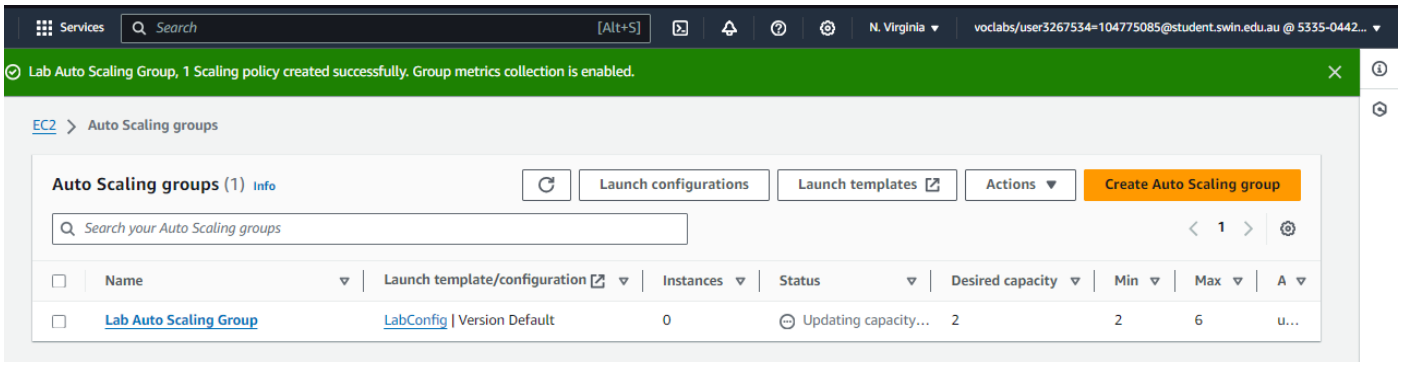


Figure 5: Create an auto scaling group.

Task 4: Verify that Load Balancing is Working

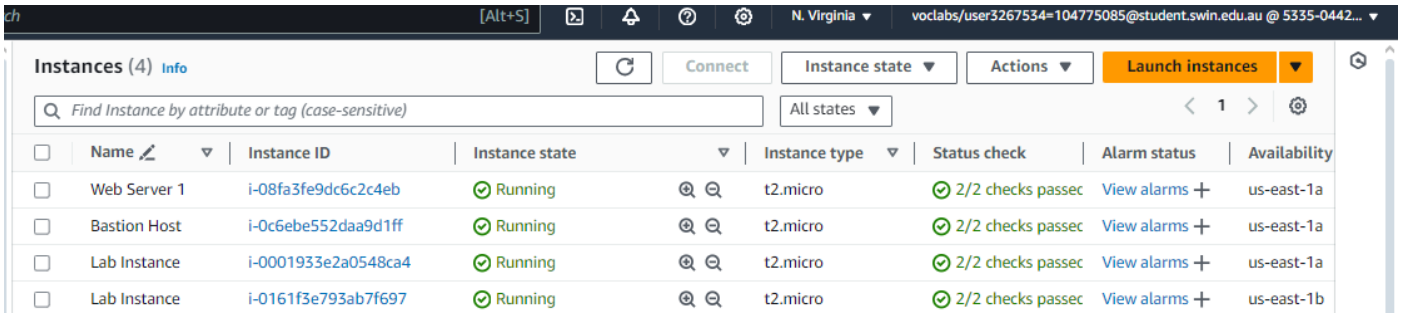


Figure 6: Two more lab instances are created.

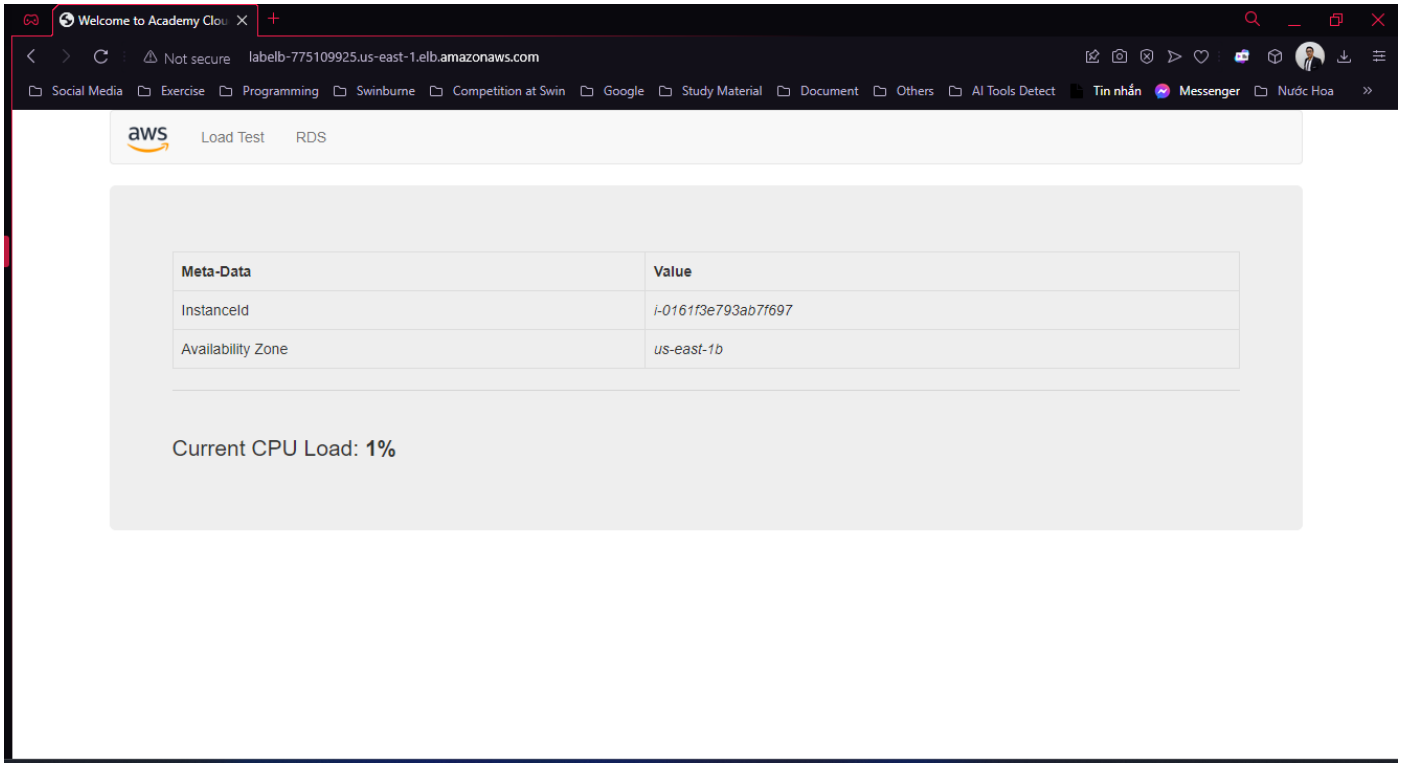


Figure 7: Try the Load Balancer response.

Task 5: Test Auto Scaling

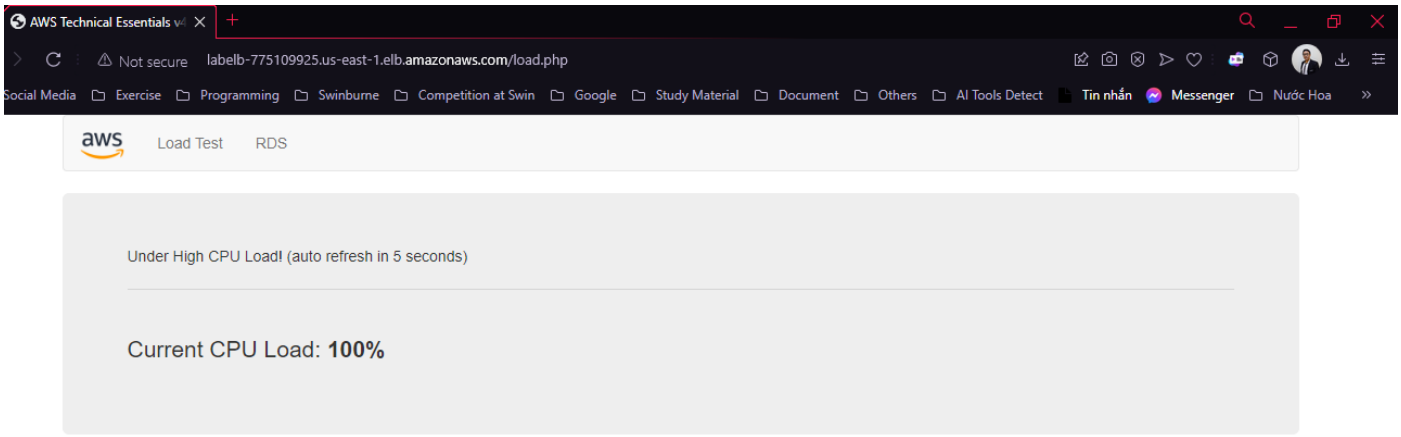


Figure 8: Generate 100% CPU Load.

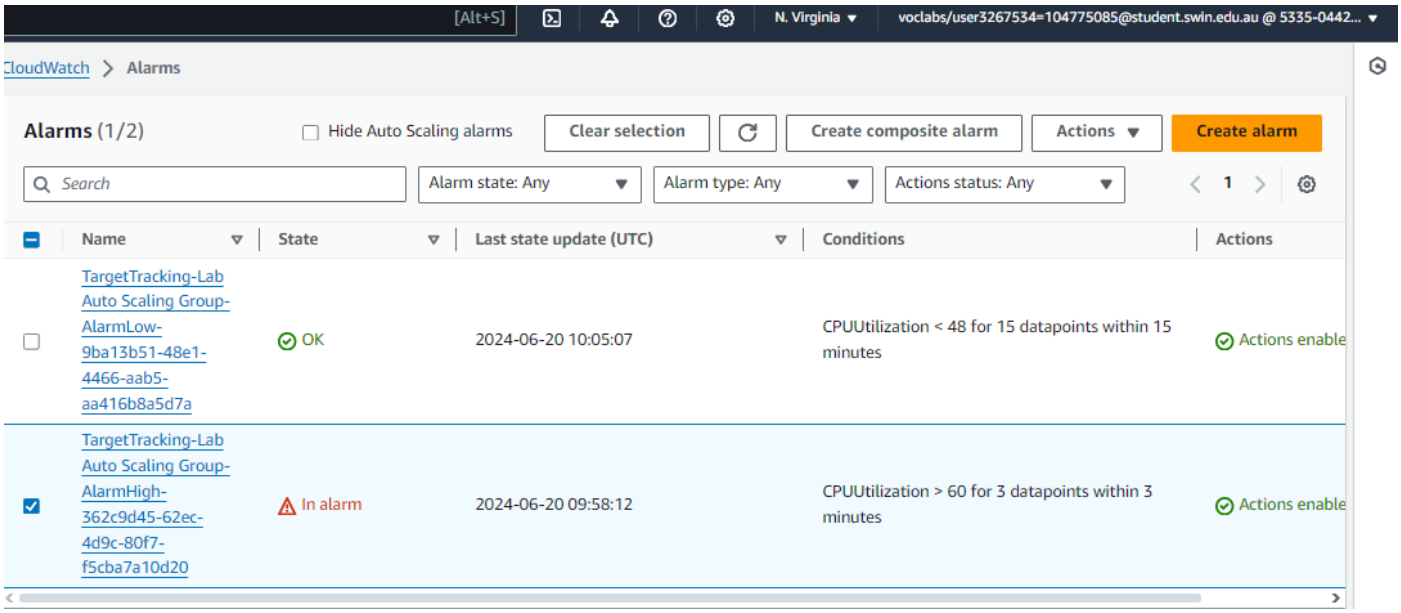


Figure 9: Alarm is triggered.

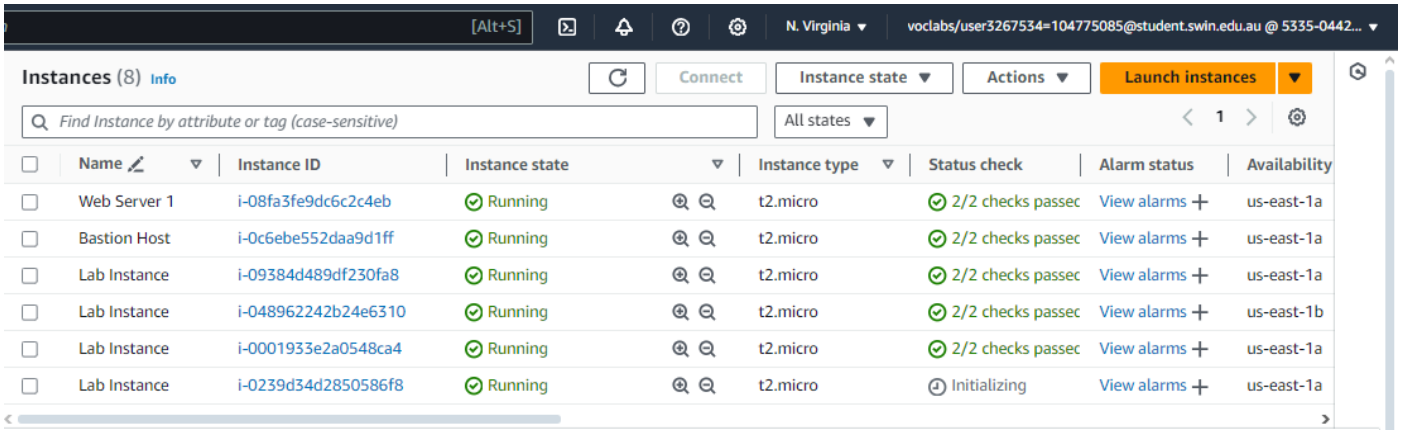


Figure 10: More instances are created.

Task 6: Terminate Web Server 1

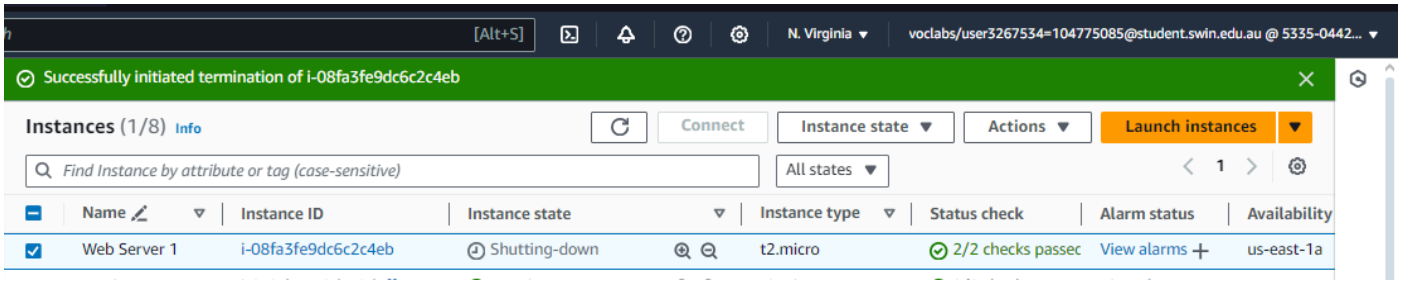
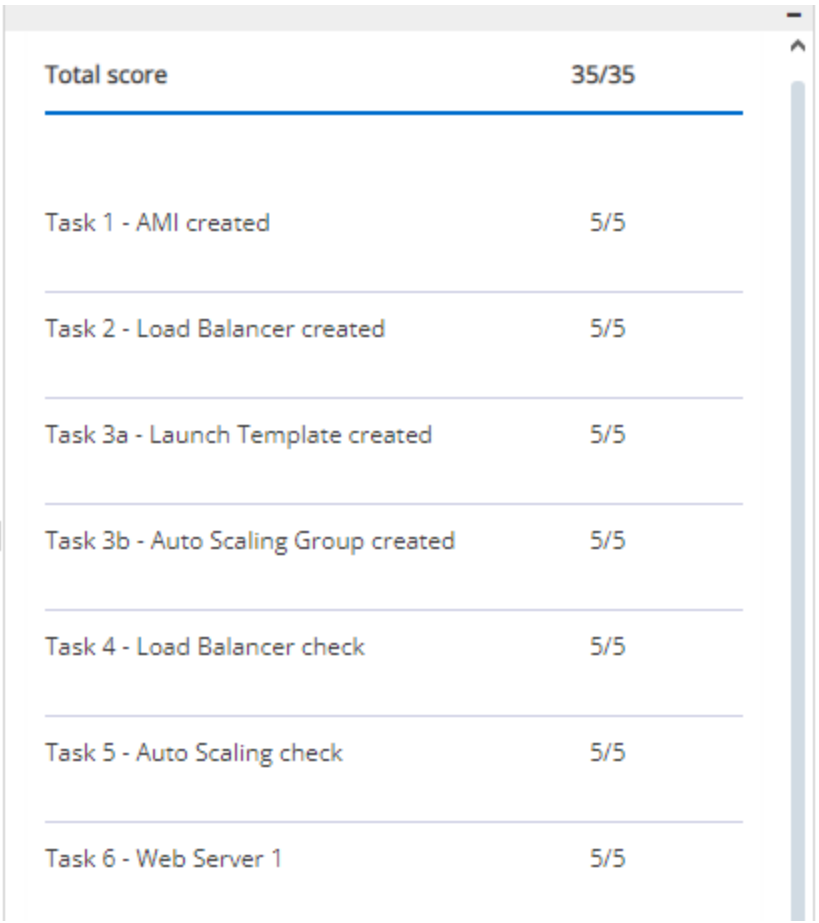
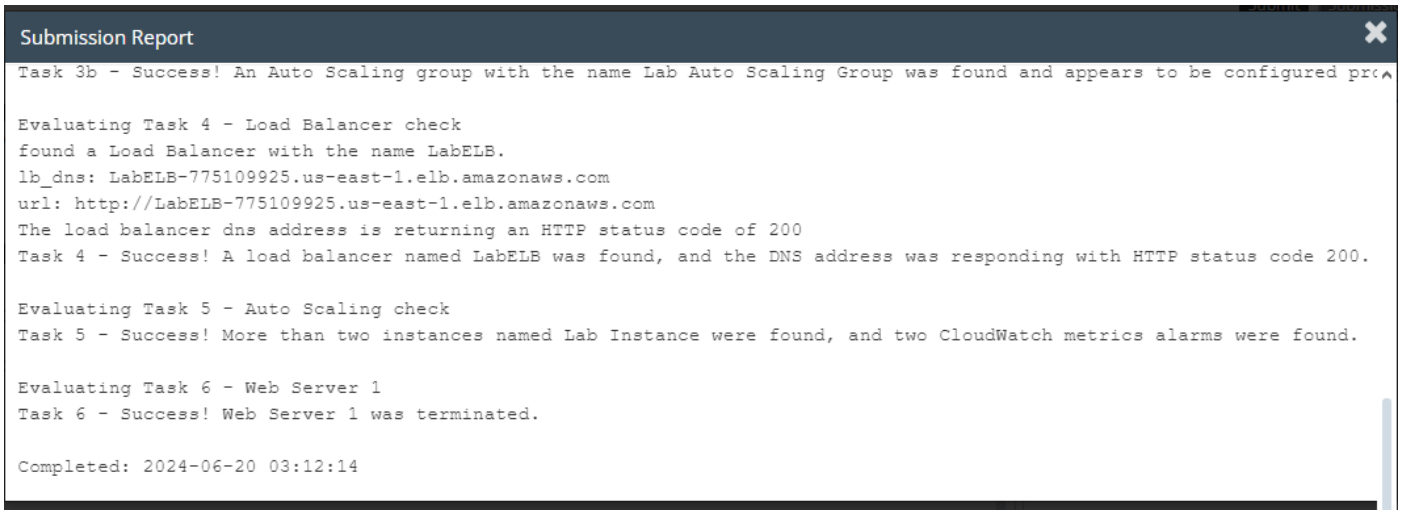


Figure 11: Terminate Web Server 1 instance.



Total score	35/35
Task 1 - AMI created	5/5
Task 2 - Load Balancer created	5/5
Task 3a - Launch Template created	5/5
Task 3b - Auto Scaling Group created	5/5
Task 4 - Load Balancer check	5/5
Task 5 - Auto Scaling check	5/5
Task 6 - Web Server 1	5/5

Figure 12: Score after submission.



Submission Report

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Task 3b - Success! An Auto Scaling group with the name Lab Auto Scaling Group was found and appears to be configured pro

Evaluating Task 4 - Load Balancer check
found a Load Balancer with the name LabELB.
lb_dns: LabELB-775109925.us-east-1.elb.amazonaws.com
url: http://LabELB-775109925.us-east-1.elb.amazonaws.com
The load balancer dns address is returning an HTTP status code of 200
Task 4 - Success! A load balancer named LabELB was found, and the DNS address was responding with HTTP status code 200.

Evaluating Task 5 - Auto Scaling check
Task 5 - Success! More than two instances named Lab Instance were found, and two CloudWatch metrics alarms were found.

Evaluating Task 6 - Web Server 1
Task 6 - Success! Web Server 1 was terminated.

Completed: 2024-06-20 03:12:14
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Figure 13: Submission report.