

## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Summer 2025

### Activity 8: Scale and Load Balance Your Architecture

Paste screenshot of the AWS Management Console after completing each task.

#### Task 1: Create an AMI for Auto Scaling

aws Search [Alt+S] United States (N. voclabs/user1118636=elvin.hatamov@georgebrow

EC2 > Instances

EC2  
Dashboard  
EC2 Global View  
Events

▼ Instances  
Instances  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances  
Dedicated Hosts  
Capacity Reservations

▼ Images  
AMIs  
AMI Catalog

▼ Elastic Block Store  
Volumes

Currently creating AMI [ami-0b8f3f8386cad373c](#) from instance [i-02db4f940d62d7711](#).  
Check that the AMI status is 'Available' before deleting the instance or carrying out other actions related to this AMI.

Instances (1/2) Info

Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive) All states < 1 >

	Name	Instance ID	Instance state	Instance type
<input checked="" type="checkbox"/>	Web Server 1	i-02db4f940d62d7711	Running	t2.micro
<input type="checkbox"/>	Bastion Host	i-03288912f71ff34e1	Running	t2.micro

i-02db4f940d62d7711 (Web Server 1)

< Details Status and alarms Monitoring Security Networking >

▼ Instance summary Info

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7:46 PM 2025-07-17

#### Task 2: Create a Load Balancer

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The screenshot shows the AWS Management Console interface for the 'Load balancers' page. The top navigation bar includes the AWS logo, a search bar, and the user's account information. The left sidebar contains a navigation menu with categories like Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The main content area displays 'Load balancers (1)' with a table listing the available load balancers. The table has columns for Name, DNS name, State, and VPC ID. One load balancer, 'LabELB', is listed with a state of 'Provisioning..'. Below the table, it indicates '0 load balancers selected' and prompts the user to 'Select a load balancer above.' The bottom of the console shows a footer with 'CloudShell', 'Feedback', and 'Privacy' links. The Windows taskbar at the very bottom shows various application icons and the system clock indicating 7:51 PM on 2025-07-17.

	Name	DNS name	State	VPC ID
<input type="checkbox"/>	LabELB	LabELB-470415466.us-east...	Provisioning..	vpc-0538fec

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The screenshot displays the AWS Management Console interface for an Application Load Balancer (LabELB). The left-hand navigation pane lists various AWS services, including Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The main content area shows the details of the LabELB, including its type (Application), status (Provisioning), scheme (Internet-facing), hosted zone (Z35SXDTRQ7X7K), VPC (vpc-0538fecdcc6209d7e), and availability zones (us-east-1a and us-east-1b). A notification banner at the top indicates that Application Load Balancers now support public IPv4 IP Address Management (IPAM). The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock.

**Notification:** Application Load Balancers now support public IPv4 IP Address Management (IPAM). You can get started with this feature by configuring IP pools in the Network mapping section.

**LabELB Details:**

Property	Value
Load balancer type	Application
Status	Provisioning
VPC	vpc-0538fecdcc6209d7e
Load balancer IP address type	IPv4
Availability Zones	subnet-09c3194bca47edc7c (us-east-1a), subnet-03a4e73adcf0b08ba (us-east-1b)
Date created	July 17, 2025, 19:51 (UTC-04:00)

### Task 3: Create a Launch Configuration and an Auto Scaling Group

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EC2 > Launch templates > LabConfig

### LabConfig (lt-067ede9f059fae423)

Events

- Instances
  - Instances
  - Instance Types
  - Launch Templates
  - Spot Requests
  - Savings Plans
  - Reserved Instances
  - Dedicated Hosts
  - Capacity Reservations
- Images
  - AMIs
  - AMI Catalog
- Elastic Block Store
  - Volumes
  - Snapshots
  - Lifecycle Manager
- Network & Security
  - Security Groups

**Launch template details**

<b>Launch template ID</b> lt-067ede9f059fae423	<b>Launch template name</b> LabConfig	<b>Default version</b> 1	<b>Owner</b> arn:aws:sts::788930451249:assume-role/voclabs/user1118636=elvin.hatamov@georgebrown.ca
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**Details** Versions Template tags

**Launch template version details**

<b>Version</b> 1 (Default)	<b>Description</b> -	<b>Date created</b> 2025-07-18T00:02:22.000Z	<b>Created by</b> arn:aws:sts::788930451249:assume-role/voclabs/user1118636=elvin.hatamov@georgebrown.ca
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ENG US 8:06 PM 2025-07-17

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EC2 > Auto Scaling groups

✓ Lab Auto Scaling Group, 1 Scaling policy created successfully. Group metrics collection is enabled.

**Auto Scaling groups (1)** Info  
Last updated less than a minute ago

Launch configurations Launch templates Actions Create Auto Scaling group

Search your Auto Scaling groups

<input type="checkbox"/>	Name	Launch template/configuration	Instances	Status
<input type="checkbox"/>	<a href="#">Lab Auto Scaling Group</a>	<a href="#">LabConfig</a>   Version Default	0	Updating capacity...

0 Auto Scaling groups selected

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8:15 PM 2025-07-17

## Amazon AWS I – Cloud Practitioner

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The screenshot displays the AWS Management Console interface for an 'Auto Scaling group' named 'Lab Auto Scaling Group'. The breadcrumb navigation shows 'EC2 > Auto Scaling groups > Lab Auto Scaling Group'. The main content area is titled 'Lab Auto Scaling Group' and includes a 'Capacity overview' section with an 'Edit' button. The overview shows the ARN, desired capacity of 2, scaling limits of 2-6, and a creation date of Thu Jul 17 2025 20:15:08 GMT-0400. Below this is a tabbed interface with 'Details' selected. The 'Launch template' section shows the launch template 'lt-067ede9f059fae423' (LabConfig), AMI ID 'ami-0b8f3f8386cad373c', instance type 't2.micro', and the owner 'arn:aws:sts::788930451249:assumed-role/voclabs/user1118636=elvin.hatamov@georgebrown.ca'. The bottom of the console shows the footer with 'CloudShell', 'Feedback', 'Privacy', 'Terms', and 'Cookie preferences'. The taskbar at the bottom of the browser window shows various application icons and the system clock indicating 8:15 PM on 2025-07-17.

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EC2 > Auto Scaling groups > Lab Auto Scaling Group

### Lab Auto Scaling Group

**Lab Auto Scaling Group Capacity overview** [Edit](#)

arn:aws:autoscaling:us-east-1:788930451249:autoScalingGroup:87512e3d-7ae6-4476-a417-62993fe0f403:autoScalingGroupNa me/Lab Auto Scaling Group

<b>Desired capacity</b> 2	<b>Scaling limits (Min - Max)</b> 2 - 6	<b>Desired capacity type</b> Units (number of instances)	<b>Status</b> -
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**Date created**  
Thu Jul 17 2025 20:15:08 GMT-0400 (Eastern Daylight Time)

< **Details** Integrations - new Automatic scaling Instance management Instance refresh >

**Launch template** [Edit](#)

<b>Launch template</b> lt-067ede9f059fae423 LabConfig	<b>AMI ID</b> ami-0b8f3f8386cad373c	<b>Instance type</b> t2.micro	<b>Owner</b> arn:aws:sts::788930451249:assumed- role/voclabs/user1118636=elv in.hatamov@georgebrown.ca
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8:15 PM 2025-07-17

### Task 4: Verify that Load Balancing is Working

## Amazon AWS I – Cloud Practitioner

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Term: Summer 2025

The screenshot shows the AWS Management Console interface for the EC2 service. The main content area displays a list of instances under the heading "Instances (4)". The instances are:

Name	Instance ID	Instance state	Instance type
Lab Instance	i-09cd0f6f4e6dd7167	Running	t2.micro
Lab Instance	i-0bce52e8fe29d1c40	Running	t2.micro
Web Server 1	i-02db4f940d62d7711	Running	t2.micro
Bastion Host	i-03288912f71ff34e1	Running	t2.micro

The left sidebar contains navigation links for EC2, including Dashboard, EC2 Global View, Events, and a list of instance types (t2.micro, t3.micro, etc.). The bottom of the screen shows a Windows taskbar with various application icons and system tray information, including the time (8:17 PM) and date (2025-07-17).

## Amazon AWS I – Cloud Practitioner

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The screenshot shows the AWS Management Console interface for the 'Target groups' page. The left sidebar contains navigation links for Volumes, Snapshots, Lifecycle Manager, Network & Security, Load Balancing, and Auto Scaling. The main content area shows the 'Target groups (1/1)' page with a search bar and a table of target groups. The 'LabGroup' target group is selected, and its details are displayed below, including a table of targets.

**Target groups (1/1)**

Name	ARN	Port	Protocol
LabGroup	arn:aws:elasticloadbalancing...	80	HTTP

**Target group: LabGroup**

Instance ID	Health status	Health status details
i-09cd0f6f4e6dd7167	Healthy	-
i-0bce52e8fe29d1c40	Healthy	-



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The screenshot shows a web browser window displaying the AWS Load Test console. The address bar shows the URL `labelb-470415466.us-east-1.elb.amazonaws.com`. The browser's address bar and tabs are visible at the top. The main content area shows the AWS logo and the text "Load Test" and "RDS". Below this, there is a table with two columns: "Meta-Data" and "Value". The table contains two rows of data:

Meta-Data	Value
InstanceId	<i>i-09cd0f6f4e6dd7167</i>
Availability Zone	<i>us-east-1b</i>

Below the table, the text "Current CPU Load: 0%" is displayed. The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 8:20 PM on 2025-07-17.

### Task 5: Test Auto Scaling

## Amazon AWS I – Cloud Practitioner

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The screenshot displays the AWS CloudWatch Alarms console. The left sidebar shows the navigation menu with options like Dashboards, AI Operations, Alarms (selected), Logs, Metrics, Application Signals (APM), Network Monitoring, and Insights. The main content area is titled 'Alarms (2)' and shows a list of two alarms. Both alarms are in the 'Insufficient data' state. The first alarm is 'TargetTracking-Lab Auto Scaling Group-AlarmLow-ca40aa1b-669c-4ad3-a609-4efda7282f15' and the second is 'TargetTracking-Lab Auto Scaling Group-AlarmHigh-f87e6406-35ab-4ac8-ab19-c6749afa90ae'. Both alarms were last updated on 2025-07-18 00:25:33. The console also includes filters for 'Alarm state: Any' and 'Alarm type: Any', and a 'Create alarm' button. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 8:26 PM on 2025-07-17.

Name	State	Last state update (UTC)	Co
TargetTracking-Lab Auto Scaling Group-AlarmLow-ca40aa1b-669c-4ad3-a609-4efda7282f15	Insufficient data	2025-07-18 00:25:33	CF mi
TargetTracking-Lab Auto Scaling Group-AlarmHigh-f87e6406-35ab-4ac8-ab19-c6749afa90ae	Insufficient data	2025-07-18 00:25:33	CF mi

## Amazon AWS I – Cloud Practitioner

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Term: Summer 2025

The screenshot displays the AWS CloudWatch Alarms console. The left sidebar shows the navigation menu with options like CloudWatch, Favorites and recents, Dashboards, AI Operations, Alarms (1), In alarm, All alarms, Billing, Logs, Metrics, Application Signals (APM), Network Monitoring, and Insights. The main content area is titled 'Alarms (2)' and includes filters for 'Hide Auto Scaling alarms', 'Clear selection', 'Create composite alarm', 'Actions', 'Create alarm', 'Search', 'Alarm state: Any', 'Alarm type: Any', and 'Actions status: Any'. A table lists the alarms:

<input type="checkbox"/>	Name	State	Last state update (UTC)	Co
<input type="checkbox"/>	<a href="#">TargetTracking-Lab Auto Scaling Group-AlarmLow-ca40aa1b-669c-4ad3-a609-4efda7282f15</a>	<span style="color: red;">⚠ In alarm</span>	2025-07-18 00:31:28	CP mi
<input type="checkbox"/>	<a href="#">TargetTracking-Lab Auto Scaling Group-AlarmHigh-f87e6406-35ab-4ac8-ab19-c6749afa90ae</a>	<span style="color: green;">✅ OK</span>	2025-07-18 00:26:16	CP mi

The bottom of the console shows 'CloudShell', 'Feedback', 'Privacy', 'Terms', and 'Cookie preferences'.

### Task 6: Terminate Web Server 1

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Successfully initiated termination (deletion) of i-02db4f940d62d7711

**Instances (1/4)** Info

Last updated 1 minute ago

Find Instance by attribute or tag (case-sensitive)

Instance state = running

	Name	Instance ID	Instance state	Instance type	Sta
<input type="checkbox"/>	Lab Instance	i-09cd0f6f4e6dd7167	Running	t2.micro	✓
<input checked="" type="checkbox"/>	Web Server 1	i-02db4f940d62d7711	Shutting-d...	t2.micro	✓
<input type="checkbox"/>	Bastion Host	i-03288912f71ff34e1	Running	t2.micro	✓
<input type="checkbox"/>	Lab Instance	i-009b7f95e5993d8e4	Running	t2.micro	✓

**i-02db4f940d62d7711 (Web Server 1)**

Details | Status and alarms | Monitoring | Security | Networking

Instance summary Info

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EC2 > Instances

EC2

- Dashboard
- EC2 Global View
- Events

▼ Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

▼ Images

- AMIs
- AMI Catalog

▼ Elastic Block Store

- Volumes

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Successfully initiated termination (deletion) of i-02db4f940d62d7711

Instances (1/4) Info

Last updated 2 minutes ago

Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive) All states

Instance state = running Clear filters

	Name	Instance ID	Instance state	Instance type	Sta
<input type="checkbox"/>	Lab Instance	i-09cd0f6f4e6dd7167	Running	t2.micro	
<input checked="" type="checkbox"/>	Web Server 1	i-02db4f940d62d7711	Terminated	t2.micro	
<input type="checkbox"/>	Bastion Host	i-03288912f71ff34e1	Running	t2.micro	
<input type="checkbox"/>	Lab Instance	i-009b7f95e5993d8e4	Running	t2.micro	

i-02db4f940d62d7711 (Web Server 1)

< Details Status and alarms Monitoring Security Networking >

▼ Instance summary Info

