

## **Amazon AWS I – Cloud Practitioner**

~~~~~  
Student Name: Elvin Hatamov  
Student ID: 101150598  
~~~~~

Term: Spring 2025

### **Activity 5: Lab 3 - Introduction to Amazon EC2**

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

#### **Task 1: Launch Your Amazon EC2 Instance**

# Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

The screenshot displays the AWS Management Console interface for the EC2 service in the us-east-1 region. The top navigation bar shows the user is logged in as 'voclabs/user1118636=elvin.hatamov@georgebrown.ca' with a session expiration time of 2066-6770-... The main content area is titled 'Instances (1/2)' and shows a table of running instances. The first instance, 'Web Server' (ID: i-02759c501f778b5c9), is selected. Below the table, the details for this instance are shown, including its state (Running), type (t2.micro), and various configuration details like VPC ID, Subnet ID, and Instance ARN. The bottom section of the screenshot shows the 'Instance summary' for the selected instance, providing a comprehensive overview of its configuration, including IP addresses, DNS names, and scaling settings.

**Instances (1/2)**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
Web Server	i-02759c501f778b5c9	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-2-100.compute-1.amazonaws.com
Bastion Host	i-08e8991e59b7b301d	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-2-100.compute-1.amazonaws.com

**i-02759c501f778b5c9 (Web Server)**

Auto-assigned IP address: 54.211.2.100 [Public IP]

IAM Role: -

IMDSv2: Required

t2.micro

VPC ID: vpc-025eb6feb141795c8 (Lab VPC)

Subnet ID: subnet-0844bd96cde0c58d (PublicSubnet1)

Instance ARN: arn:aws:ec2:us-east-1:206667705735:instance/i-02759c501f778b5c9

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendation s. | Learn more

Auto Scaling Group name: -

Managed: false

**Instance summary for i-02759c501f778b5c9 (Web Server)**

Updated less than a minute ago

Instance ID: i-02759c501f778b5c9

IPv4 address: -

Hostname type: IP name: ip-10-0-1-5.ec2.internal

Answer private resource DNS name: -

Auto-assigned IP address: 54.211.2.100 [Public IP]

IAM Role: -

IMDSv2: Required

Public IPv4 address: 54.211.2.100 | open address

Instance state: Running

Private IP DNS name (IPv4 only): ip-10-0-1-5.ec2.internal

Instance type: t2.micro

VPC ID: vpc-025eb6feb141795c8 (Lab VPC)

Subnet ID: subnet-0844bd96cde0c58d (PublicSubnet1)

Instance ARN: arn:aws:ec2:us-east-1:206667705735:instance/i-02759c501f778b5c9

Private IPv4 addresses: 10.0.1.5

Public DNS: ec2-54-211-2-100.compute-1.amazonaws.com | open address

Elastic IP addresses: -

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendation s. | Learn more

Auto Scaling Group name: -

Managed: false

## Amazon AWS I – Cloud Practitioner

~~~~~  
Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

~~~~~  
**Task 2: Monitor Your Instance**

## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

The screenshot displays the AWS Management Console interface for the 'Get system log' page of an EC2 instance. The browser address bar shows the URL: `https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#GetSystemLog:instanceId=i-0...`. The console breadcrumb navigation shows: `EC2 > Instances > i-02759c501f778b5c9 > Get system log`. The page title is 'System log'. Below the title, there are buttons for 'Copy log' and 'Download'. A subtitle reads: 'Review system log for instance i-02759c501f778b5c9 as of Fri Jul 11 2025 01:22:17 GMT-0400 (Eastern Daylight Time)'. The main content area shows a log snippet with timestamps and messages from cloud-init, including symlink creation, memory warnings, and SSH host key fingerprints. The log ends with: 'Cloud-init v. 22.2.2 finished at Fri, 11 Jul 2025 05:12:00 +0000. Datasource Da...'. The footer of the console shows 'CloudShell', 'Feedback', 'Privacy', 'Terms', and 'Cookie preferences', along with the copyright notice: '© 2025, Amazon Web Services, Inc. or its affiliates.'

System log

Review system log for instance i-02759c501f778b5c9 as of Fri Jul 11 2025 01:22:17 GMT-0400 (Eastern Daylight Time)

```
[ 27.505909] cloud-init[2193]: mod_lua-2.4.62-1.amzn2023.x86_64
[ 27.510043] cloud-init[2193]: Complete!
[ 27.614618] cloud-init[2193]: Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service â
[ 27.115493] zram_generator::config[3482]: zram0: system has too much memory (949MB), limit is 800MB, ignoring
ci-info: ++++++Authorized keys from /home/ec2-user/.ssh/authorized_keys for user ec2-user+
ci-info: +-----+
ci-info: | Keytype |                               Fingerprint (sha256)
ci-info: +-----+-----+
ci-info: | ssh-rsa | 74:78:39:20:ad:95:68:01:7e:64:1e:9d:e2:ee:94:a4:f1:bd:6a:41:cb:c5:81:e1:b3:66:01:06:bb:94:e
ci-info: +-----+-----+
<14>Jul 11 05:12:00 cloud-init: #####
<14>Jul 11 05:12:00 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Jul 11 05:12:00 cloud-init: 256 SHA256:Mw51MmhmRmgqg0hr5x1desq8eLamzafheEg5Dy+Awc root@ip-10-0-1-5.ec2.inte
<14>Jul 11 05:12:00 cloud-init: 256 SHA256:u5CHvqo/WaHtw9q7+yS3z2RK30RN+RA/QlEIEv/HSPQ root@ip-10-0-1-5.ec2.inte
<14>Jul 11 05:12:00 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
<14>Jul 11 05:12:00 cloud-init: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAYNTYAAAAIbmlzdHAYNTYAAABBOvaiBBMwQYBJYltNnyJbyib+Fznhf1Xvp1ow5NE
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIDihFBpsLrA5CsrDoipsgB76zbbBN+06w1AGbl0/bUTg root@ip-10-0-1-5.ec2.internal
-----END SSH HOST KEY KEYS-----
[ 28.231601] cloud-init[2193]: Cloud-init v. 22.2.2 finished at Fri, 11 Jul 2025 05:12:00 +0000. Datasource Da
```

## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

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

EC2 > Instances > i-02759c501f778b5c9 > Get instance screenshot

### Get instance screenshot [Info](#)

**Instance screenshot** [Download](#)

i-02759c501f778b5c9 (Web Server) on 2025-07-11 at T01:23:04.417 -04:00

```
Amazon Linux 2023.7.20250623
Kernel 6.1.141-155.222.amzn2023.x86_64 on an x86_64 (-)

ip-10-0-1-5 login: [ 26.040301] zram_generator::config[2334]: zram0: system has too much memory (949MB), limit is 800MB, ignoring.
[ 27.115493] zram_generator::config[3482]: zram0: system has too much memory (949MB), limit is 800MB, ignoring.
```

CloudShell Feedback Privacy Terms Cookie preferences

© 2025, Amazon Web Services, Inc. or its affiliates.

### Task 3: Update Your Security Group and Access the Web Server

## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

The screenshot displays the AWS Management Console interface for a security group. At the top, a green notification bar states: "Inbound security group rules successfully modified on security group (sg-0a7249b0e4d87221c | Web Server security group)". Below this, the page title is "sg-0a7249b0e4d87221c - Web Server security group".

The "Details" section provides the following information:

Property	Value
Security group name	Web Server security group
Security group ID	sg-0a7249b0e4d87221c
Description	Security group for my web server
VPC ID	vpc-025eb6feb141795c8
Owner	206667705735
Inbound rules count	1 Permission entry
Outbound rules count	1 Permission entry

Navigation tabs include: Inbound rules (selected), Outbound rules, Sharing - new, VPC associations - new, and Tags.

The "Inbound rules (1)" section shows a single rule:

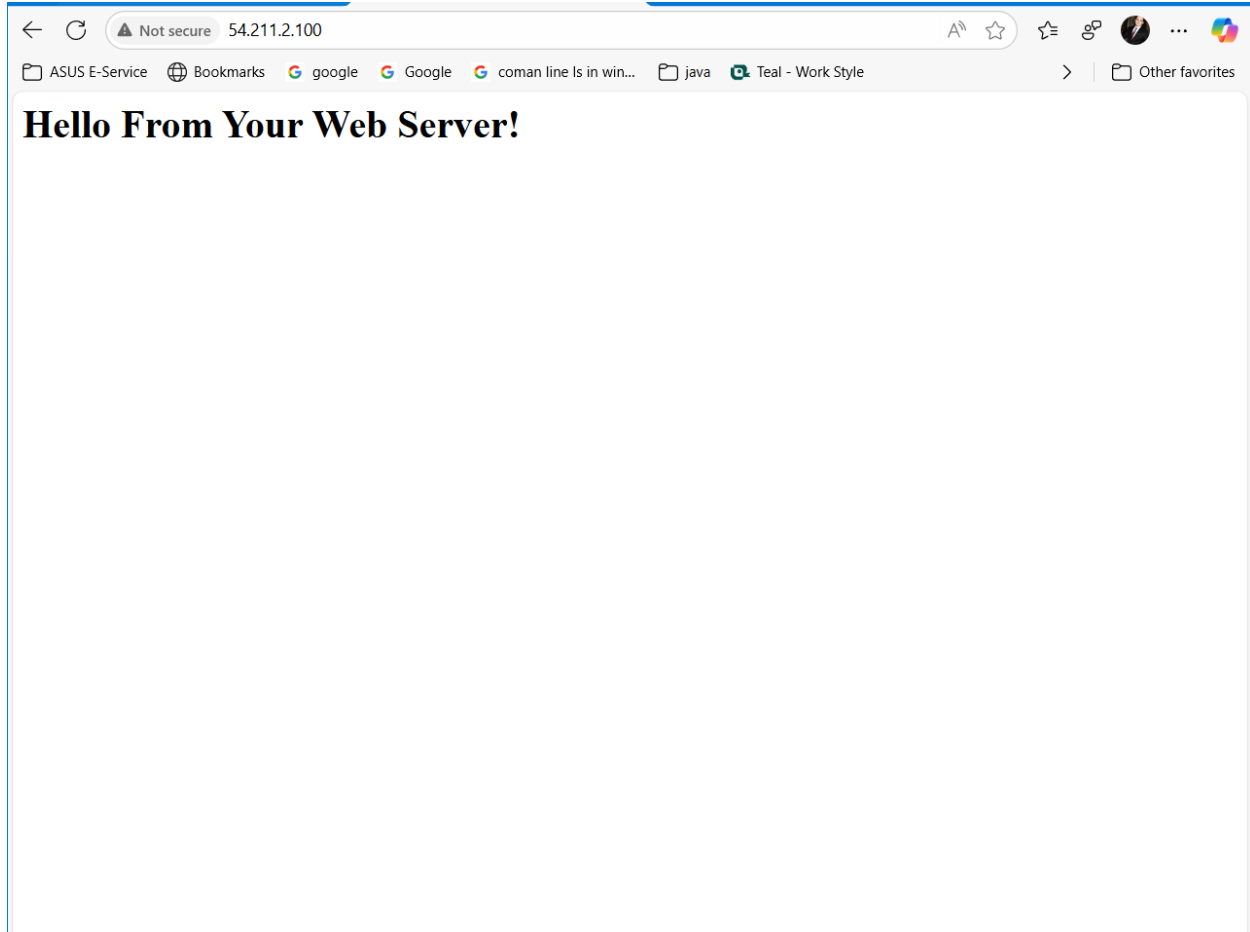
Name	Security group rule ID	IP version	Type	Protocol
-	sgr-01ad649700d32a998	IPv4	HTTP	TCP

At the bottom of the console, there are links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences, along with the copyright notice: "© 2025, Amazon Web Services, Inc. or its affiliates."

## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025



### Task 4: Resize Your Instance: Instance Type and EBS Volume

# Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

Screenshot of the AWS Management Console showing the details of an EC2 instance (i-02759c501f778b5c9) in the us-east-1 region. The console displays the instance's configuration, including the root device details and block devices.

**EC2** > **Instances** > i-02759c501f778b5c9

**Root device details**

Root device name	Root device type	EBS optimization
/dev/xvda	EBS	disabled

**Block devices**

Volume ID	Device name	Volume size (GiB)	Volume State
vol-0a8aef3f099f1668b	/dev/xvda	10	In-use

**Volume monitoring (1)**



## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

The screenshot displays the AWS Management Console interface for an EC2 instance. The left sidebar shows the navigation menu with categories like EC2, Instances, Images, and Elastic Block Store. The main content area shows the 'Instance summary for i-02759c501f778b5c9 (Web Server)'. The instance is in a 'Running' state. The 'Instance type' is highlighted with a yellow circle and is 't2.small'. Other details include the Public IPv4 address (174.129.171.245), Private IPv4 addresses (10.0.1.5), and the Public DNS (ec2-174-129-171-245.compute-1.amazonaws.com).

Property	Value
Instance ID	i-02759c501f778b5c9
Public IPv4 address	174.129.171.245   <a href="#">open address</a>
Private IPv4 addresses	10.0.1.5
Instance state	Running
Public DNS	ec2-174-129-171-245.compute-1.amazonaws.com   <a href="#">open address</a>
IPv6 address	-
Instance type	t2.small
Private IP DNS name (IPv4 only)	ip-10-0-1-5.ec2.internal
Hostname type	IP name: ip-10-0-1-5.ec2.internal
Answer private resource DNS name	-
Elastic IP addresses	-
Auto-assigned IP address	174.129.171.245 [Public IP]
VPC ID	vpc-025eb6feb141795c8 (Lab VPC)   <a href="#">VPC</a>
AWS Compute Optimizer finding	Opt-in to AWS Compute Optimizer for recommendations.

### Task 5: Explore EC2 Limits

# Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

Screenshot of the AWS Management Console showing Service Quotas for Amazon Elastic Compute Cloud (Amazon EC2).

The browser address bar shows: <https://us-east-1.console.aws.amazon.com/servicequotas/home/services/ec2/quotas>

The navigation pane on the left shows: Service Quotas > AWS services > Amazon Elastic Compute Cloud (Amazon EC2)

The main content area displays "Service quotas" with a search filter "running on-demand" and 10 matches. The table lists various quotas for running on-demand instances.

Quota name	Applied account-level quota value	AWS default quota value	Utilization	Adjustability
<a href="#">Running On-Demand DL instances</a>	96	0	0	Account level
<a href="#">Running On-Demand F instances</a>	64	0	0	Account level
<a href="#">Running On-Demand G and VT instances</a>	0	0	0	Account level
<a href="#">Running On-Demand High Memory instances</a>	0	0	0	Account level
<a href="#">Running On-Demand HPC instances</a>	192	0	0	Account level
<a href="#">Running On-Demand Inf instances</a>	8	0	0	Account level
<a href="#">Running On-Demand P instances</a>	0	0	0	Account level
<a href="#">Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) instances</a>	256	5	1	Account level
<a href="#">Running On-Demand Trn instances</a>	8	0	0	Account level

Footer: © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

## Task 6: Test Termination Protection

## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

The screenshot shows the AWS Management Console for the us-east-1 region. A red error banner at the top states: "Failed to stop the instance i-02759c501f778b5c9. The instance 'i-02759c501f778b5c9' may not be stopped. Modify its 'disableApiStop' instance attribute and try again." Below the banner, the "Instances (1/2)" page is displayed. It includes a search bar, filters (Instance state = running), and a table of instances. The table has columns for Name, Instance ID, Instance state, and Instance type. One instance, "Web Server" with ID "i-02759c501f778b5c9", is shown in a "Running" state with type "t2.small". Below the table, the "Details" tab for the selected instance is visible, showing the "Instance summary".

**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

**Instances (1/2)**

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
Web Server	i-02759c501f778b5c9	Running	t2.small

**i-02759c501f778b5c9 (Web Server)**

Details Status and alarms Monitoring Security Networking

**Instance summary**

## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and various utility icons. Below this is a breadcrumb trail: EC2 > Instances > i-02759c501f778b5c9 > Change stop protection. The main heading is 'Change stop protection' with an 'Info' link. A sub-header states: 'Enable stop protection to prevent your instance from being accidentally stopped.' Below this, a box contains the 'Instance ID' as 'i-02759c501f778b5c9 (Web Server)' and a 'Stop protection' section with an unchecked 'Enable' checkbox. At the bottom right of the form are 'Cancel' and 'Save' buttons. The footer of the console includes 'CloudShell', 'Feedback', 'Privacy', 'Terms', and 'Cookie preferences' links, along with a copyright notice for 2025.

ASUS E-Service | Bookmarks | google | Google | coman line Is in win... | java | Teal - Work Style | Other favorites

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

EC2 > Instances > i-02759c501f778b5c9 > Change stop protection

### Change stop protection [Info](#)

Enable stop protection to prevent your instance from being accidentally stopped.

**Instance ID**  
i-02759c501f778b5c9 (Web Server)

**Stop protection**  
☐ Enable

[Cancel](#) [Save](#)

CloudShell | Feedback | Privacy | Terms | Cookie preferences

© 2025, Amazon Web Services, Inc. or its affiliates.

## Amazon AWS I – Cloud Practitioner

Student Name: Elvin Hatamov  
Student ID: 101150598

Term: Spring 2025

The screenshot displays the AWS Management Console interface for EC2 Instances. The left sidebar shows navigation options under 'EC2', including 'Dashboard', 'EC2 Global View', 'Events', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', 'AMI Catalog', and 'Elastic Block Store'. The main content area shows a list of instances. The 'Web Server' instance (ID: i-02759c501f778b5c9) is selected, and its state is 'Stopped'. The 'Bastion Host' instance (ID: i-08e8991e59b7b301d) is in the 'Running' state. Below the instance list, the 'Details' tab for the 'Web Server' instance is active, showing the 'Instance summary'.

Name	Instance ID	Instance state	Instance type
Web Server	i-02759c501f778b5c9	Stopped	t2.small
Bastion Host	i-08e8991e59b7b301d	Running	t2.micro

**i-02759c501f778b5c9 (Web Server)**

Details | Status and alarms | Monitoring | Security | Networking

Instance summary