

# Lab 3: Introduction to Amazon EC2

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## Lab Work Screenshots

This screenshot shows the AWS Console Home page. On the left, there's a sidebar with icons for different services like IAM, AWS Well-Architected Tool, and EC2. The main area has sections for 'Recently visited' (IAM, AWS Well-Architected Tool, EC2), 'Welcome to AWS' (Getting started with AWS, Training and certification), 'AWS Health' (Open issues: 0, Scheduled changes: 0, Other notifications: 0), and 'Cost and usage' (Current month costs, Forecasted month end costs, Savings opportunities). A bar chart shows cost distribution by service: EC2 - Other (blue), Service Catalog (red), and Elastic Load Balancing (green).

This screenshot shows the 'Application and OS Images (Amazon Machine Image)' section of the EC2 console. It lists various AMIs including Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE. The 'Amazon Linux 2023 AMI' is selected. The 'Summary' panel on the right shows details like the number of instances (1), software image (Amazon Linux 2023 AMI 2023.5.2...), virtual server type (t2.micro), and storage (1 volume(s) - 8 GiB). A callout box highlights the 'Free tier' information: 'In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the Internet.' A large orange 'Launch instance' button is at the bottom.

Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.5.2...read more ami-0182f1373ed66fb9d5

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) Instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Launch instance

CloudShell Feedback

Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Security group name - required: Web Server security group

Description - required: Security group for my web server

Inbound Security Group Rules: No security group rules are currently included in this template. Add a new rule to include it in the launch template.

Add security group rule

Advanced network configuration

Configure storage: Advanced

1x 8 GiB gp3 Root volume (Not encrypted)

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) Instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of snapshots, and 100 GiB of bandwidth to the internet.

Add new volume

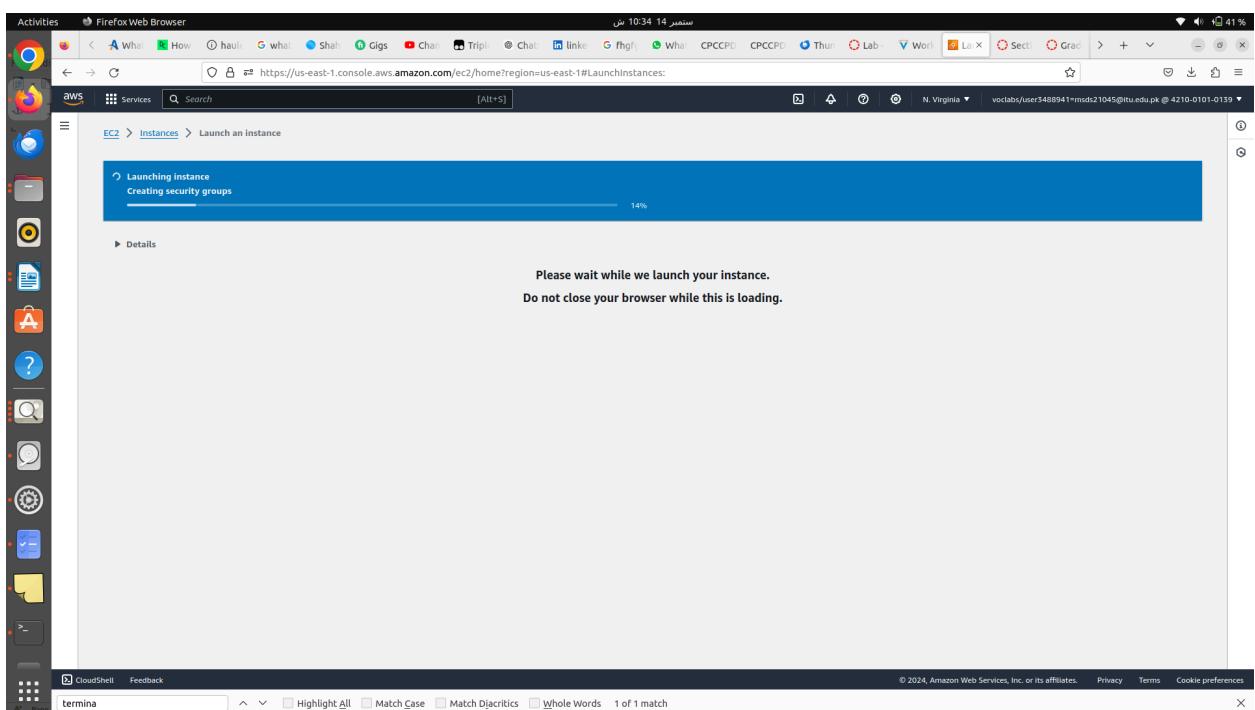
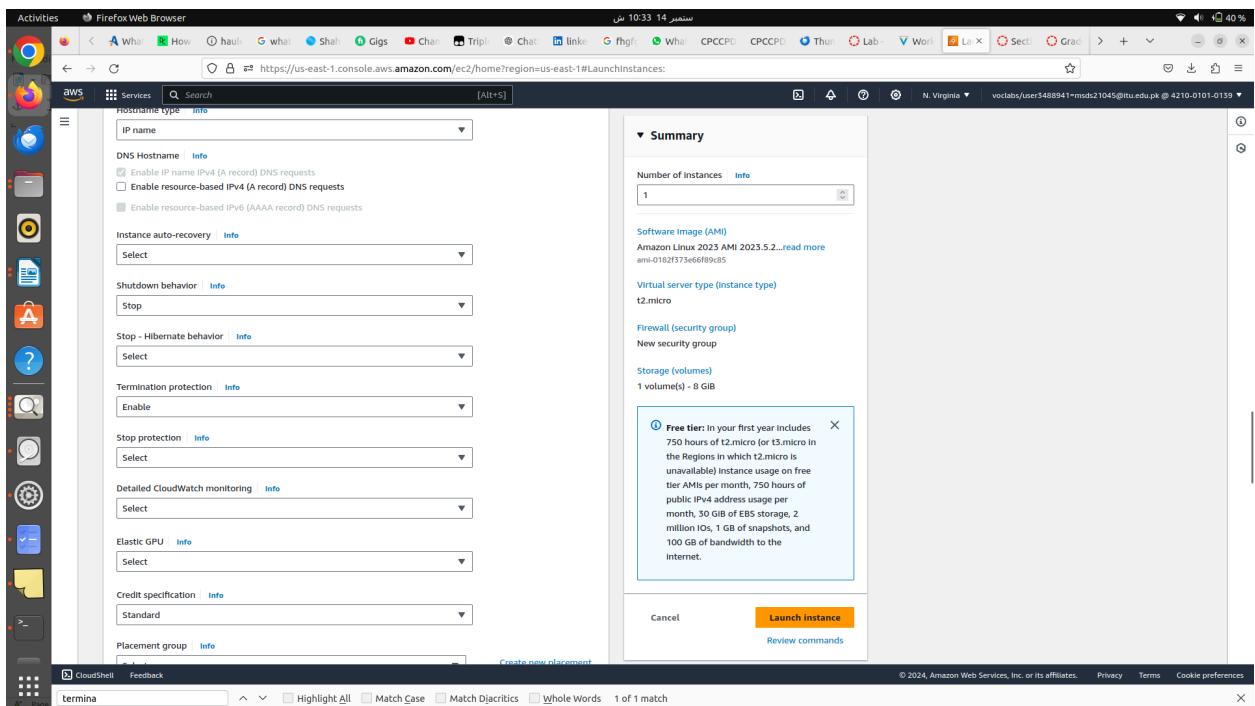
Click refresh to view backup information

0 x file systems Edit

Advanced details

Launch instance

CloudShell Feedback



Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Success Successfully initiated launch of instance (i-04f7c4c243097b6df)

Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"?

1 2 3 4 5 6 >

Create billing and free tier usage alerts  
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.  
Create billing alerts

Connect to your Instance  
Once your instance is running, log into it from your local computer.  
Connect to instance Learn more

Connect an RDS database  
Configure the connection between an EC2 instance and a database to allow traffic flow between them.  
Connect an RDS database Create a new RDS database Learn more

Create EBS snapshot policy  
Create a policy that automates the creation, retention, and deletion of EBS snapshots.  
Create EBS snapshot policy

Manage detailed monitoring  
Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period.  
Manage detailed monitoring

Create Load Balancer  
Create a application, network gateway or classic Elastic Load Balancer.  
Create Load Balancer

Create AWS budget  
AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location.  
Create AWS budget

Manage CloudWatch alarms  
Create or update Amazon CloudWatch alarms for the instance.  
Manage CloudWatch alarms

View all instances

CloudShell Feedback

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:

EC2 Dashboard

EC2 Global View

Events

Console-to-Code Preview

Instances Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations New

Images AMIs

AMI Catalog

Elastic Block Store Volumes

Snapshots

Lifecycle Manager

Network & Security Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

CloudShell Feedback

Last updated less than a minute ago

Find Instance by attribute or tag (case-sensitive)

All states

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4 ... Elastic IP

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
Bastion Host	i-0be68bd502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201	-
Web Server	i-04f7c4c243097b6df	Running	t2.micro	Initializing	View alarms +	us-east-1a	ec2-54-82-238-53.com...	54.82.238.53	-

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-04f7c4c243097b6df (Web Server)	54.82.238.53   open address	10.0.1.6
IPv6 address	Instance state	Public IPv6 DNS
-	Running	ec2-54-82-238-53.compute-1.amazonaws.com   open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-10-0-1-6.ec2.internal	ip-10-0-1-6.ec2.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
-	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.   Learn more
Auto-assigned IP address	VPC ID	
54.82.238.53 [Public IP]	vpc-020c1948578730da6 (Lab VPC)	

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic I...
Bastion Host	i-0be68bd502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201	-
Web Server	i-04f7c4c243097b6df	Running	t2.micro	Initializing	View alarms +	us-east-1a	ec2-54-82-238-53.com...	54.82.238.53	-

Inbound rules

Name	Security group rule ID	Port range	Protocol	Source	Security groups	Description
No rules to display						

Outbound rules

Name	Security group rule ID	Port range	Protocol	Destination	Security groups	Description
-	sgr-08e467d71234e90c	All	All	0.0.0.0/0	Web Server security group	-

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic I...
Bastion Host	i-0be68bd502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201	-
Web Server	i-04f7c4c243097b6df	Running	t2.micro	Initializing	View alarms +	us-east-1a	ec2-54-82-238-53.com...	54.82.238.53	-

i-04f7c4c243097b6df (Web Server)

Networking

Details	Status and alarms	Monitoring	Security	Networking	Storage	Tags
<b>Networking details</b>						
Public IPv4 address	54.82.238.53	open address	Private IPv4 addresses	10.0.1.6	VPC ID	vpc-020c1948578750da6 (Lab VPC)
Public IP4 DNS	ec2-54-82-238-53.compute-1.amazonaws.com	open address	Private IP DNS name (IPv4 only)	ip-10-0-1-6.ec2.internal		
Subnet ID	subnet-0b087d6e9f448e2b (PublicSubnet1)		IPV6 addresses	-	Secondary private IPv4 addresses	-
Availability zone	us-east-1a		Carrier IP addresses (ephemeral)	-	Outpost ID	-
Use RDN as guest OS hostname	Disabled		Answer RDN DNS hostname IPv4	Disabled		

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 IP	Elastic IP
Bastion Host	i-0be68bdf502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201	-
Web Server	i-04f7c4c243097b6df	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-82-238-53.com...	54.82.238.53	-

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	i-04f7c4c243097b6df (Web Server)
IPv6 address	-
Hostname type	IP name: ip-10-0-1-6.ec2.internal
Answer private resource DNS name	-
Auto-assigned IP address	54.82.238.53 [Public IP]

Public IPv4 address 54.82.238.53 | open address

Private IP4 addresses 10.0.1.6

Public IPv4 DNS ec2-54-82-238-53.compute-1.amazonaws.com | open address

Instance state Running

Private IP DNS name (IPv4 only) ip-10-0-1-6.ec2.internal

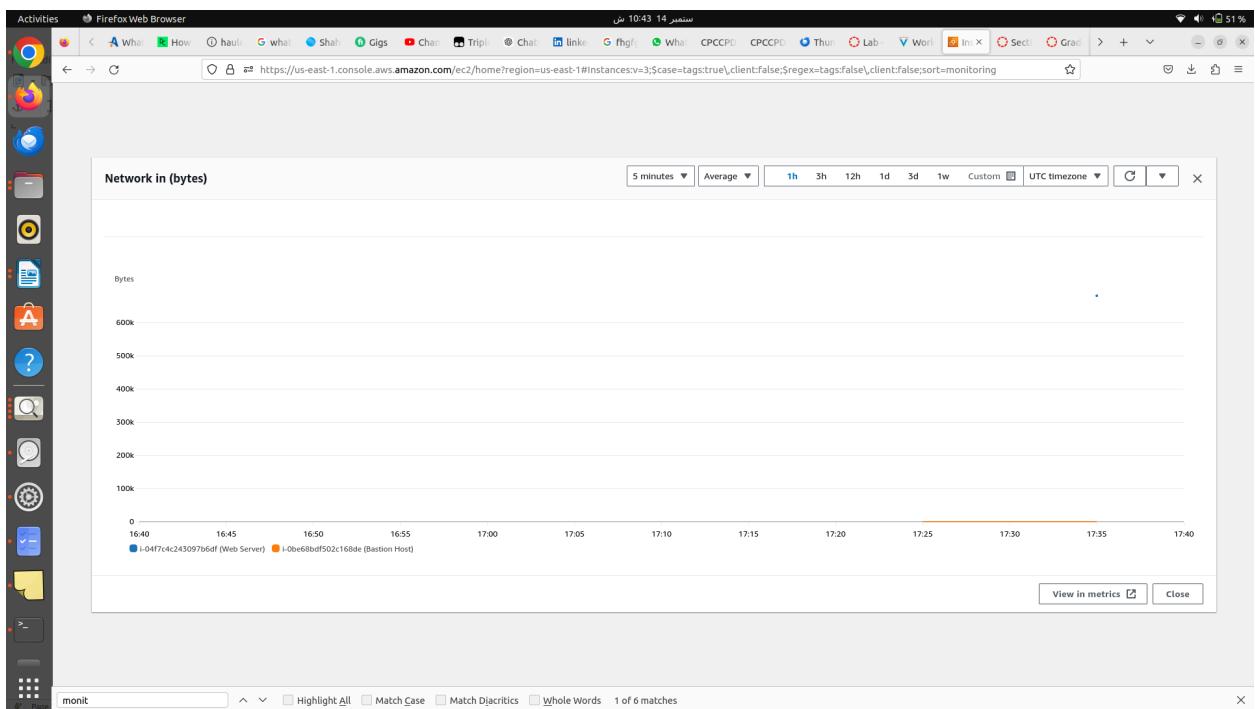
Instance type t2.micro

VPC ID vpc-020c1948578750da6 (Lab VPC)

AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. | Learn more

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CloudShell Feedback



Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:instanceState=running

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
Bastion Host	i-0be68bd502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201
Web Server	i-04f7c4c243097b6df	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-82-238-53.com...	54.82.238.53

i-04f7c4c243097b6df (Web Server)

CPU utilization (%) Network in (bytes) Network out (bytes) Network packets in (count)

Percent	Bytes	Bytes	Count
2.24	681k	8.53k	495
1.12	340k	4.27k	247

Network packets out (count) CPU credit usage (count) CPU credit balance (count)

Count	Count	Count
97.4	1	30
48.7	0.5	15

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:instanceState=running

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Actions	Launch instances
Bastion Host	i-0be68bd502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	Connect	View details
Web Server	i-04f7c4c243097b6df	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	Manage instance state	>

i-04f7c4c243097b6df (Web Server)

CPU utilization (%) Network in (bytes) Network out (bytes) Network packets in (count)

Percent	Bytes	Bytes	Count
2.24	681k	8.53k	495
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Network packets out (count) CPU credit usage (count) CPU credit balance (count)

Count	Count	Count
97.4	1	30
48.7	0.5	15

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Saturday 10:44 14 ستمبر

Activities Firefox Web Browser

AWS Services Search [Alt+S]

Instances (1/2) Info

Last updated 1 minute 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	Status check	Alarm status	Availability Zone
Bastion Host	i-0be68bd502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a
<b>Web Server</b>	<b>i-04f7c4c243097b6df</b>	<b>Running</b>	<b>t2.micro</b>	<b>2/2 checks passed</b>	<b>View alarms +</b>	<b>us-east-1a</b>

Actions ▾ Connect View details Manage instance state Instance settings ▾ public IPv4 ... Networking ▾ 4.21.127.201 Security ▾ 4.82.238.53 Image and templates ▾ Monitor and troubleshoot ▾

Get system log Get instance screenshot Manage detailed monitoring Manage CloudWatch alarms Configure CloudWatch agent EC2 serial console Replace root volume Fleet Manager ▾

i-04f7c4c243097b6df (Web Server)

1h 3h 12h 1d 3d 7d

CPU utilization (%) Network in (bytes) Network out (bytes) Network packets in (count)

Percent Bytes Bytes Count

2.24 681k 8.53k 495

1.12 340k 4.27k 247

0 0 0 0

16:45 17:00 17:15 17:30 16:45 17:00 17:15 17:30 16:45 17:00 17:15 17:30

Network packets out (count) CPU credit usage (count) CPU credit balance (count)

Count Count Count

97.4 1 30

48.7 0.5 15

0 0 0

16:45 17:00 17:15 17:30 16:45 17:00 17:15 17:30 16:45 17:00 17:15 17:30

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Saturday 10:46 14 ستمبر

Activities Firefox Web Browser

AWS Services Search [Alt+S]

EC2 > Instances > i-04f7c4c243097b6df > Get system log

Get system log Info

When you experience issues with your EC2 instance, reviewing system logs can help pinpoint the cause.

System log

Review system log for instance i-04f7c4c243097b6df as of Sat Sep 14 2024 22:44:41 GMT+0500 (Pakistan Standard Time)

```
[ 27.137762] cloud-init[2220]: apr=1.7.2-2,amzn2023.0.2,x86_64
[ 27.137785] cloud-init[2220]: apr-util-1-6.3-1.amzn2023.0.1,x86_64
[ 27.137806] cloud-init[2220]: apr-util-openssl-1.6.3-1.amzn2023.0.1,x86_64
[ 27.137827] cloud-init[2220]: generic=logs-httplib-10.0.0-12.amzn2023.0.3,noarch
[ 27.137852] cloud-init[2220]: httpd=4.62-1.amzn2023.x86_64
[ 27.146018] cloud-init[2220]: httpd-core-2.4.62-1.amzn2023.x86_64
[ 27.146111] cloud-init[2220]: httpd-filesystem-2.4.62-1.amzn2023.noarch
[ 27.146133] cloud-init[2220]: httpd-tools-2.4.62-1.amzn2023.x86_64
[ 27.146153] cloud-init[2220]: libbrotli1-1.0.9-4.amzn2023.0.2,x86_64
[ 27.146173] cloud-init[2220]: mailcap-2.1.49-3.amzn2023.0.3,noarch
[ 27.146192] cloud-init[2220]: mod_http2-2.0.27-1.amzn2023.0.3,x86_64
[ 27.146211] cloud-init[2220]: mod_luajit-2.4.62-1.amzn2023.x86_64
[ 27.146230] cloud-init[2220]: Complete!
[ 27.278869] cloud-init[2220]: Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[ 27.304560] zram_generator::config(3703): 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 |
ci-info: | Fingerprint (sha256) |
ci-info: +-----+
ci-info: | ssh-rsa | Obiad:70:49:64:8e:82:02:3d:2d:98:66:43:d5:e1:95:56:49:0e:04:9E:i2:2:60:25:f5:lc:b5:2c:7f:9b:7f:09 | - | vockey |
ci-info: +-----+
```

For boot or networking issues, use the EC2 serial console for troubleshooting. Choose the Connect button to start a session.

Connect Cancel

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Saturday 14 سبتمبر 10:47

Activities Firefox Web Browser

AWS Services Search [Alt+S]

Instances (1/2) Info

Last updated less than a minute ago

Find Instance by attribute or tag (case-sensitive)

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Web Server	i-04f7c4c243097b6df	Running	t2.micro	2/2 checks passed	View alarms	us-east-1a
Bastion Host	i-0be6bbdf502c160de	Running	t2.micro	2/2 checks passed	View alarms	us-east-1a

Actions ▾ Connect Instance state ▾

Launch instances ▾

Connect View details Manage instance state Instance settings Networking Security Image and templates Monitor and troubleshoot

Get system log Get instance screenshot Manage detailed monitoring Manage CloudWatch alarms Configure CloudWatch agent EC2 serial console Replace root volume Fleet Manager

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID: i-04f7c4c243097b6df (Web Server)

Public IPv4 address: 54.82.238.55 | open address

Private IPv4 addresses: 10.0.1.6

IPv6 address: -

Instance state: Running

Public IP DNS name (IPv4 only): ip-10-0-1-6.ec2.internal

Private IP DNS name (IPv4 only): ip-10-0-1-6.ec2.internal

Hostname type: IP name: ip-10-0-1-6.ec2.internal

Answer private resource DNS name: -

Instance type: t2.micro

VPC ID: vpc-070-194578730da6 (Public VPC)

Elastic IP addresses: -

Auto-assigned IP address: 54.82.238.55 (Public IP)

AWS Compute Optimizer finding: One link to AWS Compute Optimizer for recommendations. Learn more

CloudShell Feedback

monit

Highlight All Match Case Match Diacritics Whole Words 1 of 6 matches

Saturday 14 سبتمبر 10:47

Activities Firefox Web Browser

AWS Services Search [Alt+S]

EC2 Instances i-04f7c4c243097b6df Get instance screenshot

Get instance screenshot Info

Instance screenshot

i-04f7c4c243097b6df (Web Server) on 2024-09-14 at T2:47:47.822 +05:00

Amazon Linux 2023.5.20240903  
Kernel 6.1.106-116.188.amzn2023.x86\_64 on an x86\_64 (-)

```
ip-10-0-1-6 login: 26.264108] zram0: operator:config[2366]: zram0: system has too much memory (27.38456G), limit is 8600M, ignoring.
```

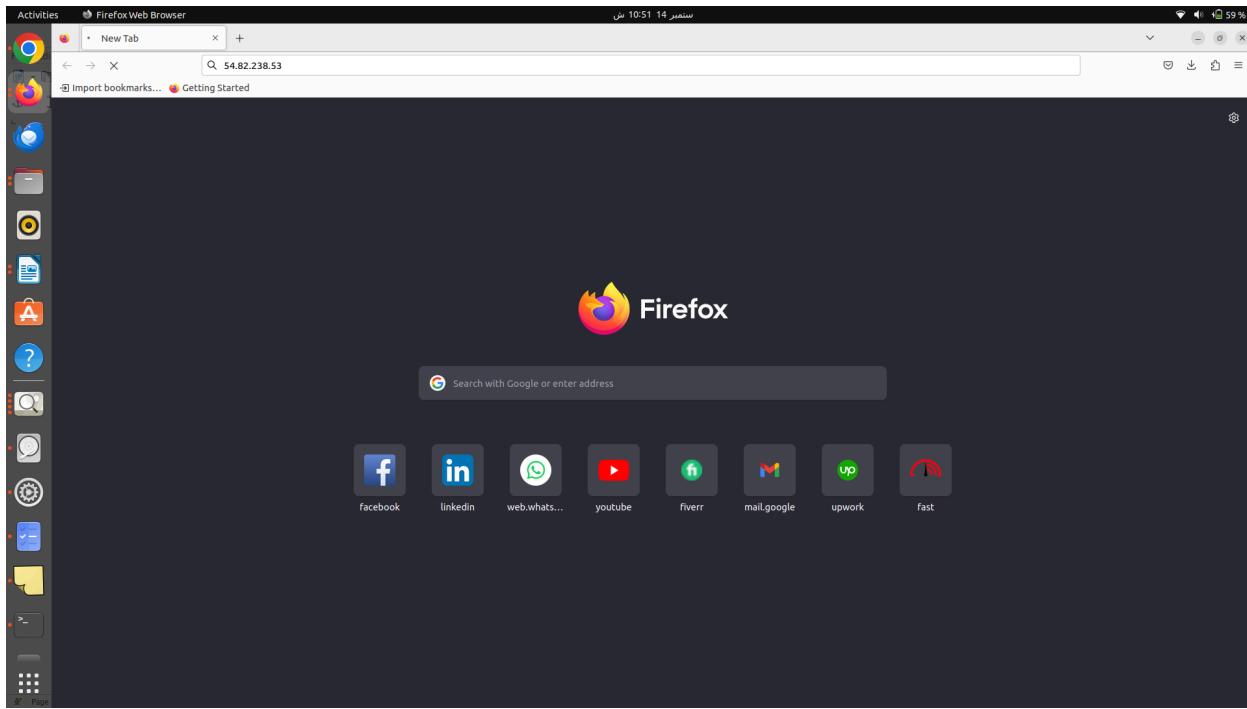
For boot or networking issues, use the EC2 serial console for troubleshooting. Choose the Connect button to start a session.

Connect

CloudShell Feedback

monit

Highlight All Match Case Match Diacritics Whole Words 1 of 6 matches



A screenshot of the AWS Management Console. The left sidebar shows navigation links for Services, Images, Elastic Block Store, Network & Security (with Security Groups selected), Load Balancing, Auto Scaling, and Settings. The main content area is titled "Security Groups (5) Info". It displays a table with the following data:

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-05d948e1fa60e7fd	default	vpc-058572b35d951a17f	default VPC security group	421001010139
-	sg-05c6254579b9ede7	Web Server security group	vpc-020c1948578730da6	Security group for my web server	421001010139
-	sg-0ca05c4b6da7bd37a	Ec2SecurityGroup	vpc-058572b35d951a17f	VPC Security Group	421001010139
-	sg-0f5f486de9933c2f	default	vpc-0d631df4ecb435fb	default VPC security group	421001010139
-	sg-0ec23ffaff8ce188c1	default	vpc-020c1948578730da6	default VPC security group	421001010139

At the bottom of the page, there is a CloudShell feedback section with a search bar containing "monit" and several search options: Highlight All, Match Case, Match Diacritics, Whole Words, and 1 of 6 matches.

Firefox Web Browser - https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups:

Sessions: 14 | 10:52:14 | N. Virginia | vocabs/user\$488941-msds21045@itu.edu.pk @ 4210-0101-0159

Activities: AWS Services Search [Alt+S]

Services: Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, Load Balancing, Load Balancers, Target Groups, Trust Stores, Auto Scaling, Auto Scaling Groups, Settings.

CloudShell Feedback

Security Groups (1/5) Info

Find resources by attribute or tag

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-03d948e1afa60e7fd	default	vpc-058372b35d951a17f	default VPC security group	421001010139
<input checked="" type="checkbox"/>	sg-05c62854579b9ede7	Web Server security group	vpc-020c1948578730da6	Security group for my web server	421001010139
-	sg-0ca05c4b6da7bd37a	Ec2SecurityGroup	vpc-058372b35d951a17f	VPC Security Group	421001010139
-	sg-05f548e6de9933c2f	default	vpc-0d631dff4ecb436fb	default VPC security group	421001010139
-	sg-0ec23faaffbce188c1	default	vpc-020c1948578730da6	default VPC security group	421001010139

sg-05c62854579b9ede7 - Web Server security group

Details Inbound rules Outbound rules Tags

Inbound rules

Search

Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
0.0.0.0/0	HTTP	TCP	80	Anywhere...	0.0.0.0/0		

CloudShell Feedback

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Firefox Web Browser - https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-05c62854579b9ede7

Sessions: 14 | 10:53:14 | N. Virginia | vocabs/user\$488941-msds21045@itu.edu.pk @ 4210-0101-0159

Activities: AWS Services Search [Alt+S]

Services: EC2 > Security Groups > sg-05c62854579b9ede7 > Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules Info

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
-	HTTP	TCP	80	Anywhere...	0.0.0.0/0

Add rule

Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your Instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Preview changes Save rules

CloudShell Feedback

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups:

Inbound security group rules successfully modified on security group (sg-05c62854579b9ede7 | Web Server security group)

Details

Security Groups (5) Info

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-03d948e1fafab0e7fd	default	vpc-058372b35d951a17f	default VPC security group	421001010139
-	sg-0ca05c4b6da7bd37a	Ec2SecurityGroup	vpc-058372b35d951a17f	VPC Security Group	421001010139
-	sg-0f5f48e6de9933c2f	default	vpc-0de311ff4ecb436fb	default VPC security group	421001010139
-	sg-0ec23faafffce188c1	default	vpc-020c1948578730d46	default VPC security group	421001010139
-	sg-05c62854579b9ede7	Web Server security group	vpc-020c1948578730d46	Security group for my web server	421001010139

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Web Server security group

Activities Firefox Web Browser

54.82.238.53/

54.82.238.53

# Hello From Your Web Server!

Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:

Instances (1/2) Info

Stop instance

Stopping your Instance allows you to reduce costs, modify settings, and troubleshoot problems.

Instance ID: i-04f7c4c243097b6df (Web Server)

Stop protection: Off (Can stop instance)

**Associated resources**

You will be billed for associated resources  
After you stop the instance, you are no longer charged usage or data transfer fees for it. However, you will still be billed for associated Elastic IP addresses and EBS volumes.

Cancel Stop

CloudShell Feedback

Web Server security group

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Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
Bastion Host	i-06e6bbdf502c168de	Running	t2.micro	2/2 checks passed		us-east-1a	ec2-54-211-227-201.co...	54.211.227.201
Web Server	i-04f7c4c243097b6df	Running	t2.micro	2/2 checks passed		us-east-1a	ec2-54-82-230-53.co...	54.82.230.53

Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:

Instances (1/2) Info

Successfully initiated stopping of i-04f7c4c243097b6df

Instances (1/2) Info

Last updated less than a minute ago

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
Bastion Host	i-06e6bbdf502c168de	Running	t2.micro	2/2 checks passed		us-east-1a	ec2-54-211-227-201.co...	54.211.227.201
Web Server	i-04f7c4c243097b6df	Stopped	t2.micro	-		us-east-1a	-	-

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

Instance ID: i-04f7c4c243097b6df (Web Server)

Public IPv4 address: -

Private IPv4 addresses: 10.0.1.6

Instance state: Stopped

Public IPv4 DNS: -

IPV6 address: -

Private IP DNS name (IPv4 only): ip-10-0-1-6.ec2.internal

Elastic IP addresses: -

Hostname type: IP name: ip-10-0-1-6.ec2.internal

Answer private resource DNS name: -

VPC ID: vpc-02919465787350def (ab.vpc)

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. Learn more

CloudShell Feedback

Web Server security group

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Successfully Initiated stopping of i-04f7c4c243097b6df

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check
Bastion Host	i-0be68bdf502c168de	Running	t2.micro	2/2 checks passed
Web Server	i-04f7c4c243097b6df	Stopped	t2.micro	-

Last updated 1 minute ago Connect Instance state Actions ▾ Launch instances ▾

Connect View details Manage instance state Public IPv4 ...

Attach to Auto Scaling Group Instance settings ▾ 14.211.227.201

Change termination protection Networking

Change stop protection Security

Change shutdown behavior Image and templates

Change auto-recovery behavior Monitor and troubleshoot

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	i-04f7c4c243097b6df (Web Server)	Public IPv4 address
IPv6 address	-	Instance state
Hostname type	IP name: ip-10-0-1-6.ec2.internal	Private IP DNS name (IPv4 only)
IP name:	ip-10-0-1-6.ec2.internal	Elastic IP addresses
Answer private resource DNS name	-	AWS Compute Optimizer finding
-	-	On-Demand AWS Compute Optimizer for recommendations
Auto-assigned IP address	-	Learn more [F2]

Public IPv4 DNS

Allow tags in instance metadata

Manage tags

Modify instance metadata options

CloudShell Feedback

Web Server security group

Highlight All Match Case Match Diacritics Whole Words 1 of 1 match

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ChangeinstanceType:instancetype=i-04f7c4c243097b6df

EC2 Instances i-04f7c4c243097b6df Change instance type

Change instance type Info | Get advice

You can change the Instance type only if the current instance type and the instance type that you want are compatible.

Instance ID: i-04f7c4c243097b6df (Web Server)

Current Instance type: t2.micro

New instance type: t2.small

EBS-optimized: EBS-optimized is not supported for this instance type

Instance type comparison

Attribute	t2.micro	t2.small
On-Demand Linux pricing	0.0116 USD per Hour	0.0230 USD per Hour
On-Demand Windows pricing	0.0162 USD per Hour	0.0320 USD per Hour
vCPUs	1 (1 core)	1 (1 core)
Memory (MiB)	1024	2048
Storage (GB)	-	-
Supported root device types	ebs	ebs
Network performance	Low to Moderate	Low to Moderate
Architecture	i386	i386

CloudShell Feedback

Web Server security group

Highlight All Match Case Match Diacritics Whole Words 1 of 1 match

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances;v=3;\$case=tags:true\client:false;\$regex=tags:false\client:false;sort=monitoring

Instance type changed successfully

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
Bastion Host	i-0be68bdf502c168de	Running	t2.micro	2/2 checks passed	View alarms	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201
Web Server	i-04f7c4c243097b6df	Stopped	t2.small	-	View alarms	us-east-1a	-	-

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	i-04f7c4c243097b6df (Web Server)	Public IPv4 address	Private IPv4 addresses
IPv6 address	-	Instance state	10.0.1.6
Hostname type	IP name: ip-10-0-1-6.ec2.internal	Private IP DNS name (IPv4 only)	Public IPv4 DNS
Answer private resource DNS name	ip-10-0-1-6.ec2.internal	Instance type	-
Auto-assigned IP address	-	VPC ID	Elastic IP addresses
	-	ip-020-194-57-230-0d6. (ah.vpc)	AWS Compute Optimizer finding

CloudShell Feedback

Web Server security group

Highlight All Match Case Match Diacritics Whole Words 1 of 1 match

Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances;v=3;\$case=tags:true\client:false;\$regex=tags:false\client:false;sort=monitoring

Instance type changed successfully

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Actions	Launch instances
Bastion Host	i-0be68bdf502c168de	Running	t2.micro	2/2 checks passed	View details	us-east-1a	Connect	Last updated 1 minute ago
Web Server	i-04f7c4c243097b6df	Stopped	t2.small	-	Manage instance state	4.211.227.201	Actions ▾	Launch instances ▾

Change termination protection

Change stop protection

Change shutdown behavior

Change auto-recovery behavior

Change instance type

Change Nitro Enclaves

Change credit specification

Change resource based naming options

Modify instance placement

Modify Capacity Reservation settings

Edit user data

Allow tags in instance metadata

Manage tags

Modify instance metadata options

Public IPv4 DNS

Elastic IP addresses

AWS Compute Optimizer finding

CloudShell Feedback

Web Server security group

Highlight All Match Case Match Diacritics Whole Words 1 of 1 match

Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ChangeStopProtection:instanceId=i-04f7c4c243097b6df

EC2 Instances Change stop protection

Change stop protection Info

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

Instance ID: i-04f7c4c243097b6df (Web Server)

Stop protection:  Enable

Cancel Save

CloudShell Feedback

Web Server security group

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:v=3;\$case=tags;true\client:false;\$regex=tags:false\client:false;sort=monitoring

EC2 Dashboard EC2 Global View Events Console-to-Code Preview

Instances (1/2) Info

Instances (1/2)

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4 ...

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-04f7c4c243097b6df (Web Server)	-	10.0.1.6
IPv6 address	Instance state	Public IPv4 DNS
-	Stopped	-
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-10-0-1-6.ec2.internal	ip-10-0-1-6.ec2.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
-	t2.small	Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address	VPC ID	
-	vpc-029c1946578750def (Lab VPC)	

CloudShell Feedback

Web Server security group

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Activities Firefox Web Browser

Saturday 14 ستمبر 11:10:14

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes:volumeId=vol-06fe82ef28cf30c;sort=desc;createTime

AWS Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces

Volumes (1/1) Info

Volume ID = vol-06fe82ef28cf30c Clear filters

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state
-	vol-06fe82ef28cf30c	gp3	8 GiB	3000	125	snap-0617185...	2024/09/14 22:34 GMT+5	us-east-1a	In-use

Actions Create volume

Modify volume Create snapshot Create snapshot lifecycle policy Delete volume Attach volume Detach volume Force detach volume Manage auto-enabled I/O Manage tags

Volume ID: vol-06fe82ef28cf30c

Details Status checks Monitoring Fault injection

Volume ID vol-06fe82ef28cf30c	Size 8 GiB	Type gp3	Volume status Okay
AWS Compute Optimizer finding Opt-In to AWS Compute Optimizer for recommendations   Learn more	Volume state In-use	IOPS 3000	Throughput 125
Fast snapshot restored No	Availability Zone us-east-1a	Created Sat Sep 14 2024 22:34:20 GMT+0500 (Pakistan Standard Time)	Multi-Attach enabled No
Attached resources i-04f7c4c245097b6df (Web Server): /dev/xvda (attached)	Outposts ARN -		
Source			

CloudShell Feedback

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Activities Firefox Web Browser

Saturday 14 ستمبر 11:10:14

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyVolume:volumeId=vol-06fe82ef28cf30c

aws Services Search [Alt+S]

EC2 > Volumes > vol-06fe82ef28cf30c Modify volume

### Modify volume info

Modify the type, size, and performance of an EBS volume.

Volume details

Volume ID: vol-06fe82ef28cf30c

Volume type: General Purpose SSD (gp3)

Size (GiB): 16

IOPS: 3000

Throughput (MiB/s): 125

Cancel Modify

CloudShell Feedback

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Activities Firefox Web Browser

Saturday 11:10 14 سبتمبر

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyVolume:volumeId=vol-06fe82ef28cf3ae30c

AWS Services Search [Alt+S]

N. Virginia vocabs/user\$488941=msds21045@itu.edu.pk @ 4210-0101-0159

EC2 > Volumes > vol-06fe82ef28cf3ae30c > Modify volume

### Modify volume Info

Modify the type, size, and performance of an EBS volume.

**Volume details**

Volume ID: vol-06fe82ef28cf3ae30c

Volume type: General Purpose SSD (gp3)

Size (GB): 10 Min: 1 GB, Max: 10004 GB. The value must be an integer.

IOPS: 3000 Min: 100 IOPS, Max: 10000 IOPS. The value must be an integer.

Throughput (Mbps): 125 Min: 125 Mbps, Max: 1000 Mbps, Baseline: 125 Mbps.

**Modify vol-06fe82ef28cf3ae30c?**

If you are increasing the size of the volume, you must extend the file system to the new size of the volume. You can only do this when the volume enters the optimizing state. For more information see [Extend the file system after resizing an EBS volume](#).

The modification might take a few minutes to complete.

You are charged for the new volume configuration after volume modification starts. For pricing information, see [Amazon EBS Pricing](#).

Are you sure that you want to modify vol-06fe82ef28cf3ae30c?

Cancel **Modify**

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Activities Firefox Web Browser

Saturday 11:11 14 سبتمبر

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;\$case=tags:true\client:false;\$regex=tags:false\client:false;sort=monitoring

AWS Services Search [Alt+S]

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EC2 Dashboard

EC2 Global View

Events

Console-to-Code Preview

Instances (1/2) Info

Last updated: less than a minute ago

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
Bastion Host	i-0be68bd502c168de	Running	t2.micro	2/2 checks passed	<a href="#">View alarms</a>	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201
Web Server	i-04f74c243097b6df	Stopped	t2.small	-	<a href="#">View alarms</a>	us-east-1a	-	-

**i-04f74c243097b6df (Web Server)**

Storage

Root device details: Root device name /dev/xvda, Root device type EBS, EBS optimization disabled

Block devices:

Volume ID	Device name	Volume size (GiB)	Attachment status	Encrypted	KMS key ID	Delete on termination
vol-06fe82ef28cf3ae30c	/dev/xvda	10	Attached	No	-	Yes

Volume monitoring (1)

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Activities Firefox Web Browser

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:v=3;\$case=tags:true\client:false\\$regex=tags:false\client:false;sort=monitoring

Successfully Initiated starting of i-04f7c4c243097b6df

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
Bastion Host	i-0be68bdf502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201
Web Server	i-04f7c4c243097b6df	Pending	t2.small	-	View alarms +	us-east-1a	-	-

i-04f7c4c243097b6df (Web Server)

Storage

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID	Delete on termination
vol-06fe02ef28fae30c	/dev/xvda	10	Attached	2024/09/14 22:34 GMT+5	No	-	Yes

Volume monitoring (1)

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:v=3;\$case=tags:true\client:false\\$regex=tags:false\client:false;sort=monitoring

Service Quotas

Search results for 'Service Quotas'

Services

- Service Quotas
- Service Catalog
- Directory Service

Features

- Quota request history
- Quota request template
- Quota increase request

Resources

Introducing resource search

CloudShell Feedback

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https://us-east-1.console.aws.amazon.com/servicequotas/home?region=us-east-1#

## Service Quotas

### View and manage AWS quotas

Service Quotas is an AWS service that helps you manage your quotas (also known as limits) for many AWS services in one location. Along with looking up the quota values and current utilization, you can request a quota increase from the Service Quotas console.

#### How it works

**Manage quotas**

Select a service to view available quotas

AWS Services

View quotas

**Pricing**

Service Quotas is offered at no additional charge. There are no setup fees or upfront commitments.

**More resources**

- [User Guide] What is Service Quotas?
- [Tutorial] Request a Quota Increase
- [User Guide] Using Quota Request Templates
- [User Guide] Identity and access management for Service Quotas

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https://us-east-1.console.aws.amazon.com/servicequotas/home?region=us-east-1#

## Service Quotas

### View and manage AWS quotas

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#### How it works

**Manage quotas**

Select a service to view available quotas

AWS Services

Amazon EC2

Amazon EC2 Auto Scaling

Amazon Elastic Compute Cloud (Amazon EC2)

EC2 Fast Lambda

EC2 Image Builder

EC2 VM Import/Export

IPAM

**More resources**

- [User Guide] What is Service Quotas?
- [Tutorial] Request a Quota Increase
- [User Guide] Using Quota Request Templates
- [User Guide] Identity and access management for Service Quotas

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https://us-east-1.console.aws.amazon.com/servicequotas/home/services/ec2/quotas

AWS Services Search [Alt+S]

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Service Quotas Service Quotas > AWS services > Amazon Elastic Compute Cloud (Amazon EC2)

Amazon Elastic Compute Cloud (Amazon EC2)

Amazon Elastic Compute Cloud (EC2) provides resizable compute capacity through virtual machines (VMs or instances) in the cloud.

Service quotas Request increase at account level

View your applied quota values, default quota values, and request quota increases for quotas. [Learn more](#)

Search by quota name

Quota name	Applied account-level quota value	AWS default quota value	Utilization	Adjustability
All DL Spot Instance Requests	96	0	0	Account level
All F Spot Instance Requests	64	0	0	Account level
All G and VT Spot Instance Requests	0	0	0	Account level
All Inf Spot Instance Requests	8	0	0	Account level
All P4, P3 and P2 Spot Instance Requests	0	0	0	Account level
All P5 Spot Instance Requests	0	0	0	Account level
All Standard (A, C, D, H, I, M, R, T, Z) Spot Instance Requests	256	5	0	Account level
All Tm Spot Instance Requests	0	0	0	Account level
All X Spot Instance Requests	0	0	0	Account level
Amazon FPGA Images (AFIs)	Not available	100	Not available	Account level
AMI sharing	1,000	1,000	Not available	Account level
AMIs	50,000	50,000	Not available	Account level
Attachments per transit gateway	5,000	5,000	Not available	Account level

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Activities Firefox Web Browser سهیم ۱۴ ۱۱:۱۵

https://us-east-1.console.aws.amazon.com/servicequotas/home/services/ec2/quotas

AWS Services Search [Alt+S]

N. Virginia vocabs/user\$488941=msds21045@itu.edu.pk @4210-0101-0159

Service Quotas Service Quotas > AWS services > Amazon Elastic Compute Cloud (Amazon EC2)

Amazon Elastic Compute Cloud (Amazon EC2)

Amazon Elastic Compute Cloud (EC2) provides resizable compute capacity through virtual machines (VMs or instances) in the cloud.

Service quotas Request increase at account level

View your applied quota values, default quota values, and request quota increases for quotas. [Learn more](#)

Search by quota name

Quota name	Applied account-level quota value	AWS default quota value	Utilization	Adjustability
Running On-Demand DL Instances	96	0	0	Account level
Running On-Demand F Instances	64	0	0	Account level
Running On-Demand G and VT Instances	0	0	0	Account level
Running On-Demand High Memory Instances	0	0	0	Account level
Running On-Demand HPC Instances	192	0	0	Account level
Running On-Demand Inf Instances	8	0	0	Account level
Running On-Demand P Instances	0	0	0	Account level
Running On-Demand Standard (A, C, D, H, I, M, R, T, Z) Instances	256	5	1	Account level
Running On-Demand Tm Instances	8	0	0	Account level
Running On-Demand X Instances	0	0	0	Account level

CloudShell Feedback running-on-demand © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Activities Firefox Web Browser

Saturday 14 11:16 87 %

https://us-east-1.console.aws.amazon.com/servicequotas/home/services/ec2/quotas/L-6E869C2A

AWS Services Search [Alt+S]

Service Quotas > AWS services > Amazon Elastic Compute Cloud (Amazon EC2) > Running On-Demand DL Instances

Running On-Demand DL instances

Request increase at account level

Service Quotas X

Dashboard AWS services Quota request history

Organization Quota request template

Details

Description Maximum number of vCPUs assigned to the Running On-Demand DL Instances.

Quota code L-6E869C2A Quota ARN arn:aws:servicequotas:us-east-1:421001010139:ec2/L-6E869C2A

Utilization 0 Applied account-level quota value 96 AWS default quota value 0 Adjustability Account level

Monitoring Request history Alarms Tags

Monitoring This displays a customizable CloudWatch embedded graph. Learn more

1h 3h 12h 1d 3d 1w Custom UTC timezone Add to dashboard

Running On-Demand DL instances - (Utilization %)

CloudShell Feedback

running on-demand Highlight All Match Case Match Diacritics Whole Words Phrase not found

Activities Firefox Web Browser

Saturday 14 11:18 89 %

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:instanceState=running:sort=monitoring

Instances (1/2) Info

Last updated less than a minute 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	Status check	Alarm status
Web Server	i-04f7c4c243097b6df	Running	t2.small	2/2 checks passed	View alarms
Bastion Host	i-0be0bd502c160de	Running	t2.micro	2/2 checks passed	View alarms

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	i-04f7c4c243097b6df (Web Server)	Public IPv4 address	52.203.221.215   open address
IPv6 address	-	Instance state	Running
Hostname type	IP name: ip-10-0-1-6.ec2.internal	Private IP DNS name (IPv4 only)	ip-10-0-1-6.ec2.internal
Answer private resource DNS name	-	Instance type	t2.small
Auto-assigned IP address	52.203.221.215 (Public IP)	VPC ID	vpc-020c1946578750def (Lab VPC)

Private IPv4 addresses  
10.0.1.6

Public IPv4 DNS  
ec2-52-203-221-215.compute-1.amazonaws.com | open address

Elastic IP addresses  
-

AWS Compute Optimizer finding  
Opt-in to AWS Compute Optimizer for recommendations. Learn more

CloudShell Feedback

running on-demand Highlight All Match Case Match Diacritics Whole Words Phrase not found

Activities Firefox Web Browser سطح المكتب ١٤ ١١:١٩

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:instanceState=running;sort=monitoring [Alt+S]

AWS Services Search N. Virginia vocabs/user\$488941=msds21045@itu.edu.pk @ 4210-0101-0159

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces CloudShell Feedback

Instances (1/2) Info Find Instance by attribute or tag (case-sensitive) All states ▾ Last updated less than a minute ago Connect Instance state Actions Launch instances

Failed to stop the instance i-04f7c4c243097b6df NetworkError when attempting to fetch resource.

Notifications 0 2 0 0 0 0 0 0

Instances (1/2) Info Find Instance by attribute or tag (case-sensitive) All states ▾ Last updated less than a minute ago Connect Instance state Actions Launch instances

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4 ...

Web Server i-04f7c4c243097b6df Running t2.small 2/2 checks passed View alarms us-east-1a ec2-52-203-221-215.co... 52.203.221.215

Bastion Host i-0be68bdf502c160de Running t2.micro 2/2 checks passed View alarms us-east-1a ec2-54-211-227-201.co... 54.211.227.201

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info Instance ID I-04f7c4c243097b6df (Web Server) Public IPv4 address 52.203.221.215 | open address Private IPv4 addresses 10.0.1.6

IPv6 address Instance state Running Public IP DNS name (IPv4 only) ec2-52-203-221-215.compute-1.amazonaws.com | open address

Hostname type IP name: ip-10-0-1-6.ec2.internal Instance type t2.small Elastic IP addresses

Answer private resource DNS name IP: ip-10-0-1-6.ec2.internal VPC ID vpc-070-1946576730d6f (nah.vpc) AWS Compute Optimizer finding

Auto-assigned IP address 52.203.221.215 (Public IP) © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

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Activities Firefox Web Browser سطح المكتب ١٤ ١١:٢٠

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ChangeStopProtection:instanceId=i-04f7c4c243097b6df [Alt+S]

AWS Services Search N. Virginia vocabs/user\$488941=msds21045@itu.edu.pk @ 4210-0101-0159

EC2 Instances i-04f7c4c243097b6df Change stop protection

Change stop protection Info

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

Instance ID I-04f7c4c243097b6df (Web Server)

Stop protection  Enable

Cancel Save

CloudShell Feedback running-on-demand ^ Highlight All Match Case Match Diacritics Whole Words Phrase not found © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Activities Firefox Web Browser

火狐 浏览器

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:v=3;\$case=tags:true\client:false\;regex=tags:false\client:false;sort=monitoring

Amazon EC2 Services Search [Alt+S]

EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces CloudShell Feedback

Instances (1/2) Info

Last updated less than a minute ago Connect Instance state Actions Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
Bastion Host	i-0be68bdf502c168de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-211-227-201.co...	54.211.227.201
Web Server	i-04f7c4c243097b6df	Running	t2.small	2/2 checks passed	View alarms +	us-east-1a	ec2-52-203-221-215.co...	52.203.221.215

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	i-04f7c4c243097b6df (Web Server)
IPv6 address	-
Hostname type	IP name: ip-10-0-1-6.ec2.internal
Answer private resource DNS name	-
Auto-assigned IP address	52.203.221.215 (Public IP)

Public IPv4 address 52.203.221.215 | open address

Private IPv4 addresses 10.0.1.6

Public IPv4 DNS ec2-52-203-221-215.compute-1.amazonaws.com | open address

Instance state Running

Private IP DNS name (IPv4 only) ip-10-0-1-6.ec2.internal

Instance type t2.small

VPC ID vpc-070-1a46578750da6 (nah.vpc)

Elastic IP addresses -

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AWS Services Search [Alt+S]

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...
Bastion Host	i-0be68bdf502c168de	Running	t2.micro	2/2 checks passed		us-east-1a	ec2-54-211-227-201.co...	54.211.227.201
<b>Web Server</b>	i-04f7c4c243097b6df	Stopping	t2.small	-		us-east-1a	ec2-52-203-221-215.co...	52.203.221.215

i-04f7c4c243097b6df (Web Server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary info

Instance ID	i-04f7c4c243097b6df (Web Server)	Public IPv4 address	52.203.221.215   open address
IPv6 address	-	Private IPv4 addresses	10.0.1.6
Hostname type	IP name: ip-10-0-1-6.ec2.internal	Public IPv6 DNS	ec2-52-203-221-215.compute-1.amazonaws.com   open address
Answer private resource DNS name	-	Elastic IP addresses	-
Auto-assigned IP address	52.203.221.215 (Public IP)	AWS Compute Optimizer finding	<a href="#">On/Off to AWS Compute Optimizer for recommendations</a>   Learn more
VPC ID	vpce-070-1946578730d46 (nah.vpc)	© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences	

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### Resize the EBS Volume

43. With the Web Server instance still selected, choose the **Storage** tab, select the name of the Volume ID, then select the checkbox next to the volume that displays.

44. In the **Actions** menu, select **Modify volume**.  
The disk volume currently has a size of 8 GiB. You will now increase the size of this disk.

45. Change the size to: **10** **NOTE:** You may be restricted from creating Amazon EBS volumes larger than 10 GB in this lab.

46. Choose **Modify**.

47. Choose **Modify** again to confirm and increase the size of the volume.

### Start the Resized Instance

You will now start the instance again, which will now have more memory and more disk space.

48. In left navigation pane, choose **Instances**.

49. Select the **Web Server** instance.

50. In the **Instance state** menu, select **Start instance**.  
**Congratulations!** You have successfully resized your Amazon EC2 instance. In this task you changed your instance type from **t2.micro** to **t2.small**. You also modified your root disk volume from 8 GiB to 10 GiB.

Total score 25/25

Task 1 - EC2 instance created correctly 5/5

Task 2 - get system log requested 5/5

Task 3 - security group updated 5/5

Task 4 - EC2 instance updated 5/5

Task 6 - instance stopped on second try 5/5