

Quiz 1

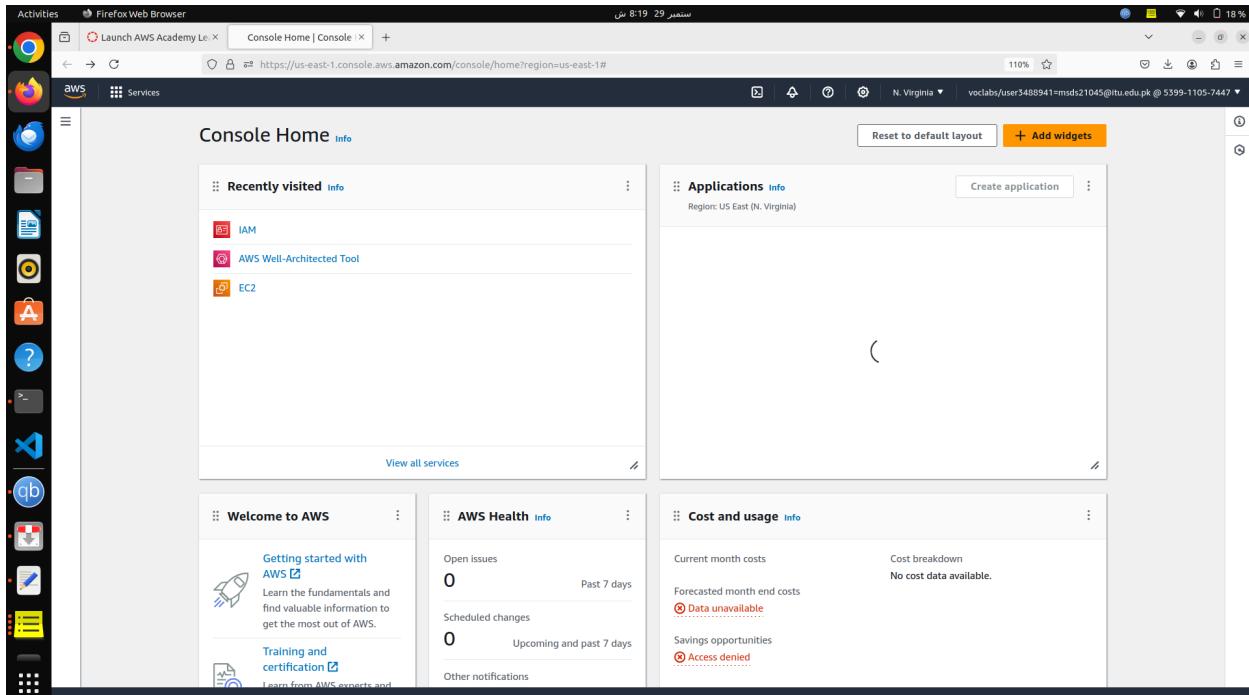
Name : Abdul Qadir

Roll # : MSDS21045

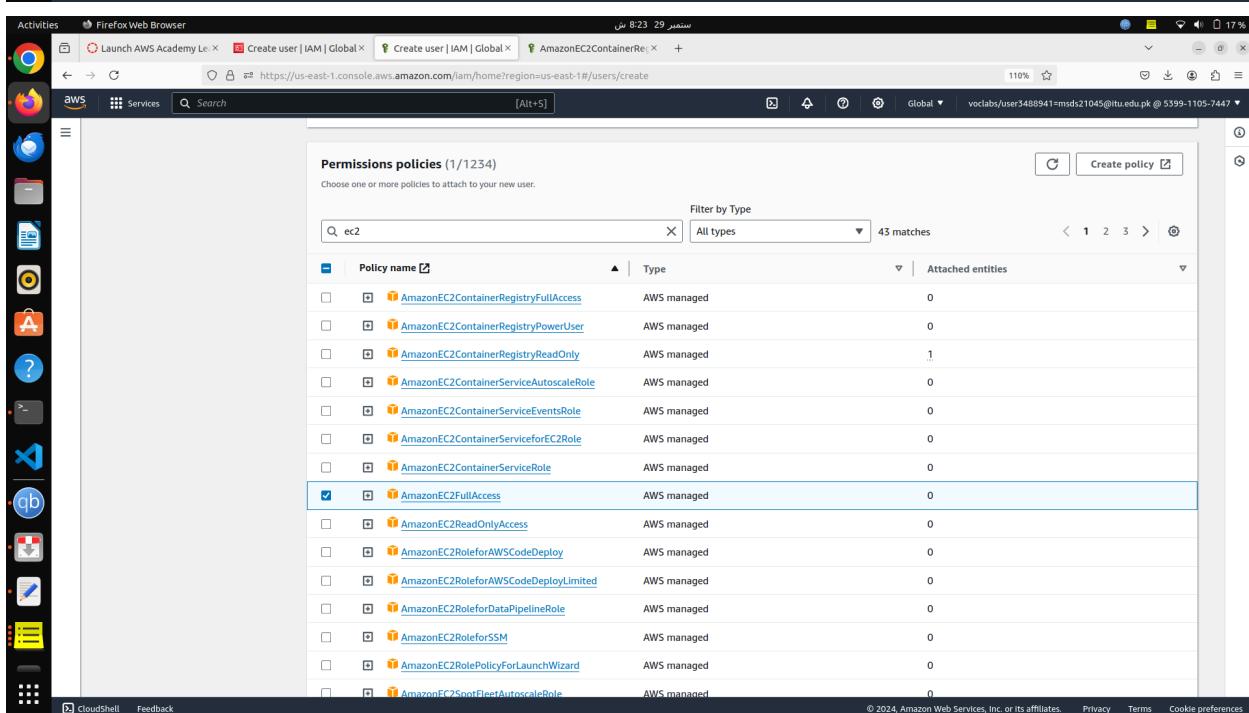
In Question 2 while mounting the EBS volume I was unable to connect to EC2.

ScreenShots

Question 1



The screenshot shows the AWS Console Home page. On the left, there's a sidebar with various 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, Past 7 days), and 'Cost and usage' (Current month costs: 0, Forecasted month end costs: Data unavailable, Cost breakdown: No cost data available). At the bottom, there are links for 'View all services', 'Reset to default layout', and 'Add widgets'.



The screenshot shows the 'Permissions policies' section of the IAM console. It lists 1234 policies. A search bar at the top right shows 'ec2'. A filter bar below it shows 'All types' and '43 matches'. A table lists policies under 'Policy name':

Policy name	Type	Attached entities
AmazonEC2ContainerRegistryFullAccess	AWS managed	0
AmazonEC2ContainerRegistryPowerUser	AWS managed	0
AmazonEC2ContainerRegistryReadOnly	AWS managed	1
AmazonEC2ContainerServiceAutoscaleRole	AWS managed	0
AmazonEC2ContainerServiceEventsRole	AWS managed	0
AmazonEC2ContainerServiceforEC2Role	AWS managed	0
AmazonEC2ContainerServiceRole	AWS managed	0
AmazonEC2FullAccess	AWS managed	0
AmazonEC2ReadOnlyAccess	AWS managed	0
AmazonEC2RoleforAWSCodeDeploy	AWS managed	0
AmazonEC2RoleforAWSCodeDeployLimited	AWS managed	0
AmazonEC2RoleforDataPipelineRole	AWS managed	0
AmazonEC2RoleforSSM	AWS managed	0
AmazonEC2RolePolicyForLaunchWizard	AWS managed	0
AmazonEC2SpotFleetAutoscaleRole	AWS managed	0

At the bottom, there are links for 'CloudShell', 'Feedback', and copyright information: '© 2024, Amazon Web Services, Inc. or its affiliates.' and 'Privacy Terms Cookie preferences'.

Activities Firefox Web Browser

Launch AWS Academy Le Create user | IAM | Global Create user | IAM | Global AmazonEC2ContainerRe ... +

aws Services Search [Alt+S] 110% Global vocabs/user3408941=msds21045@itu.edu.pk @ 5399-1105-7447

IAM > Users > Create user

Step 1 Specify user details

Step 2 Set permissions

Step 3 Review and create

Set permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Permissions options

Add user to group
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

Copy permissions
Copy all group memberships, attached managed policies, and inline policies from an existing user.

Attach policies directly
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

Permissions policies (2/1234)

Choose one or more policies to attach to your new user.

Filter by Type

Policy name	Type	Attached entities
AmazonDMSRedshiftS3Role	AWS managed	0
AmazonS3FullAccess	AWS managed	1
AmazonS3ObjectLambdaExecutionRolePolicy	AWS managed	0
AmazonS3OutpostsFullAccess	AWS managed	0
AmazonS3OutpostsReadOnlyAccess	AWS managed	0
AmazonS3ReadOnlyAccess	AWS managed	1
AmazonS3ServerSideEncryptionDefaultForS3AndKMS	AWS managed	0

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IAM > Users > Create user

Step 1 Specify user details

Step 2 Set permissions

Step 3 Review and create

Review and create

Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

User details

User name web_admin	Console password type None	Require password reset No
------------------------	-------------------------------	------------------------------

Permissions summary

Name	Type	Used as
AmazonEC2FullAccess	AWS managed	Permissions policy
AmazonS3FullAccess	AWS managed	Permissions policy

Tags - optional

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Previous Create user

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Activities Firefox Web Browser

Launch AWS Academy Le X Create user | IAM | Global X Create user | IAM | Global X AmazonEC2ContainerRe X +

aws Services Search https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create 110% Global vocabs/user3488941=msds21045@itu.edu.pk @ 5399-1105-7447

User was not created.

User: arn:aws:sts::539911057447:assumed-role/vocabs/user3488941=msds21045@itu.edu.pk is not authorized to perform: iam:CreateUser on resource: arn:aws:iam::539911057447:user/web_admin because no identity-based policy allows the iam>CreateUser action

Review and create

Step 1 Specify user details

Step 2 Set permissions

Step 3 Review and create

User details

User name web_admin	Console password type None	Require password reset No
------------------------	-------------------------------	------------------------------

Permissions summary

Name	Type	Used as
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AmazonS3FullAccess	AWS managed	Permissions policy

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Cancel Review Continue

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Let you assume that the error message is precise and correct. Unless you put a random placeholder at the account place of the ARNs in the error message you are trying to create a user in a different account. Requester: 37197122623409 Resource: 371237422423709 The user has to have that permission in its IAM policy. Can you provide the part of the policy which you believe gives you the `iam:CreateUser` permission? – petech Dec 7, 2022 at 20:27

Add a comment

3 Answers Sorted by: Highest score (default)

The "vocab" part of the error suggests you are not logged as the account root user but instead assuming a role in an account used for teaching purposes. This role is probably designed to disallow IAM actions, in order to prevent privilege escalation.

Read <https://docs.aws.amazon.com/iam/latest/UserGuide/howtogetcredentials.html> to get role credentials for the role you're assuming

Share Improve this answer Follow Follow this answer to receive notifications answered Dec 7, 2022 at 21:10 Paul Santus 68 ● 3

admin-create-user command doesn't work properly getting an error when trying to create IAM user with administrator access

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You can't make any IAM roles, policies or users as a student using `vocabs` account. AWS Academy does not allow to do that and it's a hard limit which you nor your educator can change.

Share Improve this answer Follow answered Dec 7, 2022 at 22:25 Marcin 235k 14 291 345

What is the average result of rolling Xd6 twice and taking the higher of the two sums?

UpsilonOrchestra score: how to show duplicated tempo marking for violins?

metronome undefined

If Voyager is still an active NASA spacecraft, does it have a flight director? Is that a part time job?

How to reject non-physical solutions to the wave equation?

Taking out the film from the roll can it still work?

DTM and DSM from the same LAZ file - extent do not match

What is the name for this BC-BE back-to-back transistor configuration?

Hot Network Questions

In the Silmarillion or the Appendices to ROTK, do the Dwarves of Khazad-dûm know about the Balrog below prior to Durin receiving the ring?

BTDS Kinetic Chaos (9/2024 Odyssey)

Did Sauron refer to Morgoth as "Morgoth" (Sindarin for "Black Fee" or "Dark Tyrant")?

Why are METAR issued at 53 minutes of the hour?

What is the greatest possible number of empty squares that could remain after the jumps?

Seeking a Bräker-style shuriken book on Masechet Beitzah (besides Bräker Avraham)

What is the average result of rolling Xd6 twice and taking the higher of the two sums?

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metronome undefined

If Voyager is still an active NASA spacecraft, does it have a flight director? Is that a part time job?

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Taking out the film from the roll can it still work?

DTM and DSM from the same LAZ file - extent do not match

What is the name for this BC-BE back-to-back transistor configuration?

Activities Firefox Web Browser

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https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create [Alt+S]

110% Global vocabs/user3408941=msds21045@itu.edu.pk @ 5399-1105-7447

IAM > Users > Create user

Step 1 Specify user details

Step 2 Set permissions

Step 3 Review and create

Specify user details

User details

User name network_admin

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = . @ _ - (hyphen)

Provide user access to the AWS Management Console - optional

If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.

If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. [Learn more](#)

Cancel Next

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Activities Firefox Web Browser

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https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create [Alt+S]

110% Global vocabs/user3408941=msds21045@itu.edu.pk @ 5399-1105-7447

IAM > Users > Create user

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Step 2 Set permissions

Step 3 Review and create

Review and create

Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

User details

User name network_admin	Console password type None	Require password reset No
----------------------------	-------------------------------	------------------------------

Permissions summary

Name	Type	Used as
AmazonEC2ReadOnlyAccess	AWS managed	Permissions policy
AmazonVPCFullAccess	AWS managed	Permissions policy

Tags - optional

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Previous Create user

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Activities Firefox Web Browser Launch AWS Academy Le Create user | IAM | Global Create user | IAM | Global Screenshot captured You can paste the image from the clipboard. 8:28 29 Sunday 15% https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create [Alt+S] Global vocabs/user3488941=msds21045@itu.edu.pk @ 5399-1105-7447

User was not created.
User: arn:aws:sts::539911057447:assumed-role/voclabs/user3488941=msds21045@itu.edu.pk is not authorized to perform: iam:CreateUser on resource: arn:aws:iam::539911057447:user/network_admin because no identity-based policy allows the iam:CreateUser action

Review and create
Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

Specify user details

Step 2 Set permissions Step 3 Review and create

User details

User name network_admin	Console password type None	Require password reset No
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Permissions summary

Name	Type	Used as
AmazonEC2ReadOnlyAccess	AWS managed	Permissions policy
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No tags associated with the resource.

Add new tag You can add up to 50 more tags.

Cancel Previous Create user

Activities Firefox Web Browser Launch AWS Academy Le Create user | IAM | Global Create user | IAM | Global AmazonEC2ContainerRe + 8:29 29 Sunday 15% https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create 110% Global vocabs/user3488941=msds21045@itu.edu.pk @ 5399-1105-7447

IAM > Users > Create user

Review and create
Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

Specify user details

Step 1 Step 2 Set permissions Step 3 Review and create

User details

User name support_user	Console password type None	Require password reset No
---------------------------	-------------------------------	------------------------------

Permissions summary

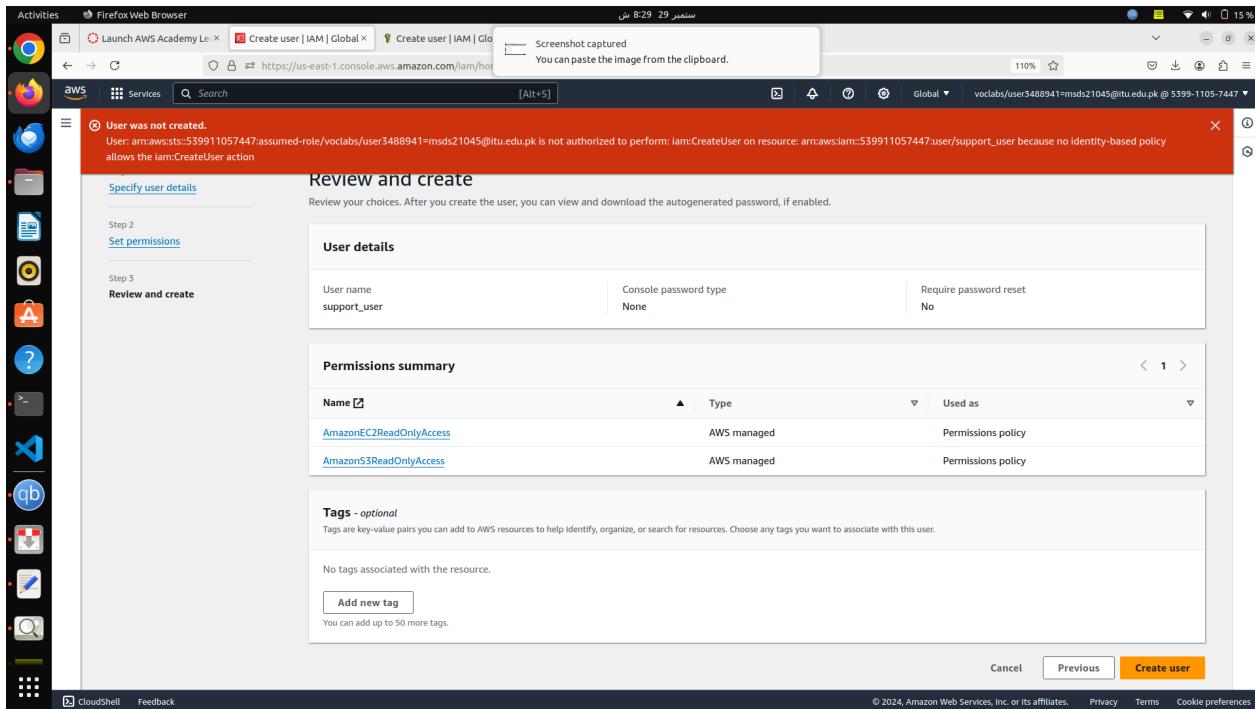
Name	Type	Used as
AmazonEC2ReadOnlyAccess	AWS managed	Permissions policy
AmazonS3ReadOnlyAccess	AWS managed	Permissions policy

Tags - optional
Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

Add new tag You can add up to 50 more tags.

Cancel Previous Create user



The screenshot shows a Google Classroom assignment titled "Quiz-1". The assignment details are as follows:

Question 1: Setting Up Identity and Access Management (IAM)
You need to create IAM users with the correct permissions to manage specific AWS services for the new team.
Task:

1. Create three IAM users: web_admin, network_admin, and support_user.
2. Assign the following roles:
 - o web_admin should have full access to Amazon EC2 and Amazon S3.
 - o network_admin should have full access to Amazon VPC and read-only access to Amazon EC2.
 - o support_user should have read-only access to both Amazon EC2 and Amazon S3.

Question 2: Building a Virtual Private Cloud (VPC)
You must create a secure network to host your web application.
Task:

1. Create a VPC with:
 - o One public subnet (for the web server).
 - o One private subnet (for the database).
2. Ensure that instances in the private subnet can connect to the internet via a NAT Gateway.

Additional Task:

- Configure a security group that only allows HTTP and SSH access to the web server in the public subnet.

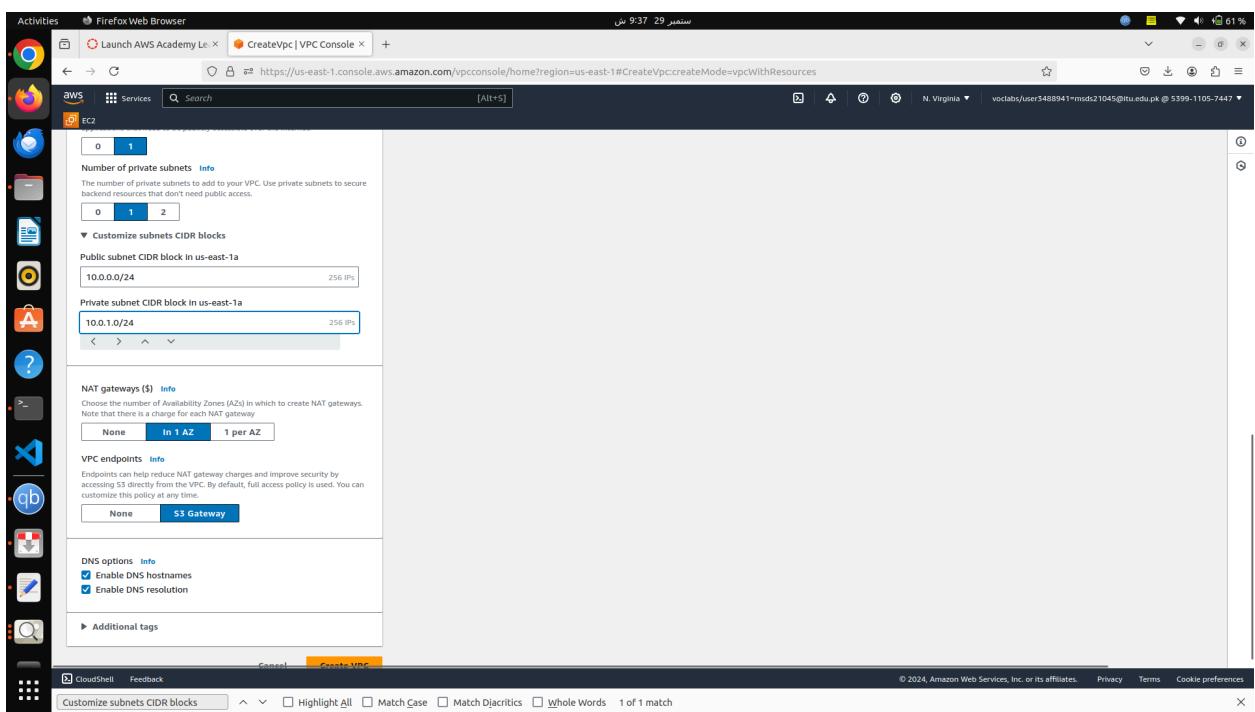
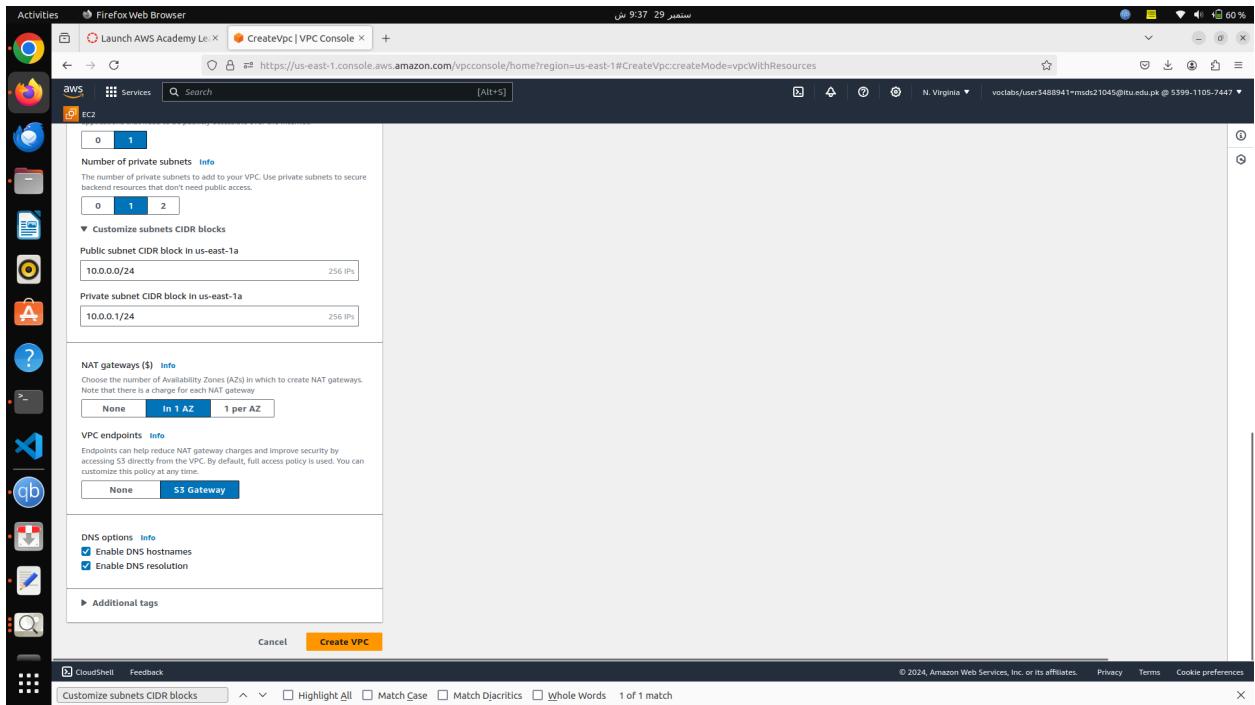
Question 3: Launching and Monitoring an EC2 Instance
You need to deploy the company's web application using EC2.
Task:

The assignment has a due date of 2024-04-15 and is marked as "Not turned in". There is a "Mark as done" button and a "Private comments" section where a comment from "Zumurrain Hussain" is visible.

The screenshot shows the AWS VPC Create Console interface. The user is configuring a new VPC with the following details:

- Number of Availability Zones (AZs)**: Set to 1.
- First availability zone**: Set to us-east-1a.
- Number of public subnets**: Set to 1.
- Number of private subnets**: Set to 1.
- Public subnet CIDR block in us-east-1a**: Set to 10.0.0.0/24.
- Private subnet CIDR block in us-east-1a**: Set to 10.0.1.0/24.
- NAT gateways (\$)**: Set to 1.

The interface includes a sidebar with various AWS services like CloudWatch, Lambda, and S3, and a bottom navigation bar with CloudShell, Feedback, and other options.



Activities Firefox Web Browser Launch AWS Academy Le: CreateVpcWizard | VPC C X + https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateVpcWizard: 9:37 29 ش 61 %

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941=msd21045@itu.edu.pk @ 5399-1105-7447 EC2

VPC Your VPCs Create VPC Create VPC resources

Create VPC workflow

1%
Create VPC
Details
Create VPC
Enable DNS hostnames
Enable DNS resolution
Verifying VPC creation
Create S3 endpoint
Create subnet
Create subnet
Create Internet gateway
Attach Internet gateway to the VPC
Create route table
Create route
Associate route table
Allocate elastic IP
Create NAT gateway
Wait for NAT Gateways to activate
Create route table
Create route
Associate route table
Verifying route table creation
Associate S3 endpoint with private subnet route tables

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Customize subnets CIDR blocks ^ v □ Highlight All □ Match Case □ Match Diacritics □ Whole Words 1 of 1 match

Activities Firefox Web Browser Launch AWS Academy Le: CreateVpcWizard | VPC C X + https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#CreateVpcWizard: 9:41 29 ش 65 %

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941=msd21045@itu.edu.pk @ 5399-1105-7447 EC2

VPC Your VPCs Create VPC Create VPC resources

Create VPC workflow

Success
Details
Create VPC: vpc-0e5e79ef12e4c8028
Enable DNS hostnames
Enable DNS resolution
Verifying VPC creation: vpc-0e5e79ef12e4c8028
Create S3 endpoint: vpc-09264f123385670182
Create subnet: subnet-072d658ace601b9f
Create subnet: subnet-0f9682cc7d0e2fb9
Create Internet gateway: igw-0341ddc2abad33ae6
Attach Internet gateway to the VPC
Create route table: rtb-00e312214bb6cd8a6
Create route
Associate route table
Allocate elastic IP: eipalloc-057b744fd94ce8d0
Create NAT gateway: nat-005c7d1b57862cd72
Wait for NAT Gateways to activate
Create route table: rtb-0410dfc22bc49545d
Create route
Associate route table
Verifying route table creation
Associate S3 endpoint with private subnet route tables: vpc-09264f123385670182

View VPC

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Customize subnets CIDR blocks ^ v □ Highlight All □ Match Case □ Match Diacritics □ Whole Words 1 of 1 match

Activities Firefox Web Browser Launch AWS Academy Le x vpcs | VPC Console +

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#vpcs: 9:42 29 ش

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941=msd21045@itu.edu.pk @ 5399-1105-7447

VPC dashboard Your VPCs (1/3) Info

Name VPC ID State IPv4 CIDR IPv6 CIDR DHCP option set Main route table

quiz-vpc	vpc-0e22ffab395341ea	Available	10.0.0.0/16	-	dopt-002c1c315730bea...	rtb-04971bd86650ba...
cloud_quiz_vpc-vpc	vpc-0e3e79ef12e4c8028	Available	10.0.0.0/16	-	dopt-002c1c315730bea...	rtb-00833fb43bf87fd2
-	vpc-0ed5f214774a56d8b	Available	172.31.0.0/16	-	dopt-002c1c315730bea...	rtb-0cbd63124066a470

Subnets Route tables Internet gateways Egress-only Internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

Security Network ACLs Security groups DNS firewall Rule groups Domain lists

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Customize subnets CIDR blocks Highlight All Match Case Match Diacritics Whole Words 1 of 1 match

Activities Firefox Web Browser Launch AWS Academy Le x RouteTables | VPC Console +

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTables: 9:42 29 ش

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941=msd21045@itu.edu.pk @ 5399-1105-7447

VPC dashboard Route tables (1/7) Info

Name Route table ID Explicit subnet associations Edge associations Main VPC Owner ID

cloud_quiz_vpc-rtb-private1-us-east-1a	rtb-04109c22bc49545d	subnet-0f9682ecc7d0e2f...	-	No	vpc-0e3e79ef12e4c8028 clou...	539911057447
quiz-rtb-private1-us-east-1a	rtb-0550915eddf187ef2	2 subnets	-	No	vpc-0e2ffa0b395341ea quiz...	539911057447
cloud_quiz_vpc-rtb-public	rtb-00e312214bb6bcd0a6	subnet-0a72d658ace601...	-	No	vpc-0e3e79ef12e4c8028 clou...	539911057447
-	rtb-04971bd86650ba...	-	-	Yes	vpc-0e2ffa0b395341ea quiz...	539911057447
quiz-rtb-public	rtb-0e4a0944cf0de59e	-	-	No	vpc-0e2ffa0b395341ea quiz...	539911057447
-	rtb-00833fb43bf87fd2	-	-	Yes	vpc-0e3e79ef12e4c8028 clou...	539911057447
-	rtb-0cbd63124066a470	-	-	Yes	vpc-0ed5f214774a56d8b	539911057447

Explicit subnet associations (1) Edit subnet associations

Name Subnet ID IPv4 CIDR IPv6 CIDR

cloud_quiz_vpc-subnet-private1-us-east-1a	subnet-0f9682ecc7d0e2fb9	10.0.1.0/24	-
---	--------------------------	-------------	---

Subnets without explicit associations (0)

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Find subnet association

Name Subnet ID IPv4 CIDR IPv6 CIDR

--	--	--	--

Edit subnet associations

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Customize subnets CIDR blocks Highlight All Match Case Match Diacritics Whole Words 1 of 1 match

Activities Firefox Web Browser Launch AWS Academy Le ... Route tables | VPC Manag ... +

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

N. Virginia vocabs/user\$488941=msd21045@itu.edu.pk @ 5399-1105-7447

VPC dashboard EC2 Global View Filter by VPC Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only Internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups DNS firewall Rule groups Domain lists

You have successfully updated subnet associations for rtb-0410d9c22bc49543d / cloud_quiz_vpc-rtb-private1-us-east-1a.

Route tables (1 / 7) Info Last updated less than a minute ago Actions Create route table

Name	Route table ID	Explicit subnet associa...	Edge associations	Main	VPC	Owner ID
<input checked="" type="checkbox"/> cloud_quiz_vpc-rtb-private1-us-east-1a	rtb-0410d9c22bc49543d	2 subnets	-	No	vpc-0e5e79ef12e4c8028 clou...	539911057447
<input type="checkbox"/> quiz-rtb-private1-us-east-1a	rtb-0350913e6df187ef2	2 subnets	-	No	vpc-0e2ffab0595341ea quiz-...	539911057447
<input type="checkbox"/> cloud_quiz_vpc-rtb-public	rtb-00e312214bb66cd0a6	-	-	No	vpc-0e3e79ef12e4c8028 clou...	539911057447
<input type="checkbox"/> -	rtb-04971bd666508a2	-	-	Yes	vpc-0e2ffab0595341ea quiz-...	539911057447
<input type="checkbox"/> quiz-rtb-public	rtb-0e4a0944cf0de50e	-	-	No	vpc-0e2ffab0595341ea quiz-...	539911057447
<input type="checkbox"/> -	rtb-0083f3b45fb77fd2	-	-	Yes	vpc-0e5e79ef12e4c8028 clou...	539911057447
<input type="checkbox"/> -	rtb-0cbdf65124066a470	-	-	Yes	vpc-0ed5f214774a56db	539911057447

rtb-0410d9c22bc49543d / cloud_quiz_vpc-rtb-private1-us-east-1a

Details Routes Subnet associations Edge associations Route propagation Tags

Route table ID: rtb-0410d9c22bc49543d Main: No Explicit subnet associations: 2 subnets Edge associations: -

VPC: vpc-0e5e79ef12e4c8028 | cloud_quiz_vpc-vpc Owner ID: 539911057447

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Activities Firefox Web Browser Launch AWS Academy Le ... SecurityGroup | VPC Con ... +

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#SecurityGroup:groupId=sg-02e776b39bd06f0af

N. Virginia vocabs/user\$488941=msd21045@itu.edu.pk @ 5399-1105-7447

VPC dashboard EC2 Global View Filter by VPC Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only Internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups DNS firewall Rule groups Domain lists

VPC > Security Groups > sg-02e776b39bd06f0af - quiz_security_group

Actions

Details

Security group name: quiz_security_group	Security group ID: sg-02e776b39bd06f0af	Description: allowed HTTP and SSH for public subnet	VPC ID: vpc-0ed5f214774a56db
Owner: 539911057447	Inbound rules count: 0	Outbound rules count: 2	Permission entries: 2

Inbound rules Outbound rules Tags

Outbound rules (2)

Name	Security group rule...	IP version	Type	Protocol	Port range	Destination	Description
-	sgr-0c421e0bf47954c04	IPv4	HTTP	TCP	80	10.0.0.0/16	-
-	sgr-0ef536e5973aff4b2	IPv4	SSH	TCP	22	10.0.0.0/16	-

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Activities

Google Chrome

Classroom Main

Classroom Main

Quiz-1

Lab 2Build your

Lab 4 Working

lab2_updated_

ChatGPT | Open

ChatGPT

amazon web se

9:43 29 ش

classroom.google.com/c/hzAONzUwNDM2ODU0/a/NzEzMDMzODY5NjUz/details

Task:

1. Create three IAM users: web_admin, network_admin, and support_user.
2. Assign the following roles:
 - o web_admin should have full access to Amazon EC2 and Amazon S3.
 - o network_admin should have full access to Amazon VPC and read-only access to Amazon EC2.
 - o support_user should have read-only access to both Amazon EC2 and Amazon S3.

Question 2: Building a Virtual Private Cloud (VPC)

You must create a secure network to host your web application.

Task:

1. Create a VPC with:
 - o One public subnet (for the web server).
 - o One private subnet (for the database).
2. Ensure that instances in the private subnet can connect to the internet via a NAT Gateway.

Additional Task:

- Configure a security group that only allows HTTP and SSH access to the web server in the public subnet.

Question 3: Launching and Monitoring an EC2 Instance

You need to deploy the company's web application using EC2.

Task:

Quiz-1

1. Launch an EC2 instance in the public subnet of your VPC and ensure termination protection is enabled.
2. Use the User Data script to automatically install a web server and display a custom

Activities

Firefox Web Browser

Launch AWS Academy Le

Launch an instance | EC2

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

9:45 29 ش

EC2

EC2 > Instances > Launch an instance

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: cloud_quiz_ec2

Application and OS Images (Amazon Machine Image)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search our full catalog including 1000s of application and OS images

Recent: Quick Start

Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, Browse more AMIs

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2023 AMI 2023.5.2... [read more](#)

Virtual server type (Instance type): t2.micro

Firewall (security group): quiz_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 GB of snapshots, and 100 GiB of bandwidth to the Internet.

Cancel

Launch instance

Review commands

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Activities Firefox Web Browser Launch AWS Academy Le: https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances: 9:45 29 Sunday

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

EC2 vockey Create new key pair

▼ Network settings Info Edit

Network Info
vpc-0ed5f214774a56db

Subnet Info
No preference (Default subnet in any availability zone)

Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Common security groups Info
Select security group
quiz_security_group sg-02e776b39bd06f0af X Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▼ Configure storage Info 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 GB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the Internet.

Cancel Launch instance Review commands

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Customize subnets CIDR blocks ^ v Highlight All Match Case Match Diacritics Whole Words 1 of 1 match

Activities Firefox Web Browser Launch AWS Academy Le: https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances: 9:46 29 Sunday

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

EC2 vockey Create new key pair

▼ Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required vockey Create new key pair

▼ Network settings Info

VPC - required Info
vpc-03e79ef12e4c8028 [cloud_quiz_vpc-vpc] 10.0.0.0/16

Subnet Info
subnet-072d658ace601b9f cloud_quiz_vpc-subnet-public1-us-east-1a VPC: vpc-03e79ef12e4c8028 Owner: 539911057447 Availability Zone: us-east-1a Zone type: Unavailable Zone IP addresses available: 250 CIDR: 10.0.0.0/24 Create new subnet

Auto-assign public IP Info
Disable

Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Common security groups Info
Select security group
quiz_security_group sg-02e776b39bd06f0af X Compare security group rules

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 GB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the Internet.

Cancel Launch instance Review commands

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sub ^ v Highlight All Match Case Match Diacritics Whole Words 2 of 2 matches

Activities Firefox Web Browser Launch AWS Academy Le x Launch an instance | EC2 + https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances: 9:46 29 سمبر

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

EC2

Shutdown behavior Info Stop

Stop - Hibernate behavior Info Select

Termination protection Info Enable

Stop protection Info Select

Detailed CloudWatch monitoring Info Select

Elastic GPU Info Select

Credit specification Info Standard

Placement group Info Select Create new placement group

EBS-optimized instance Info Disable

Purchasing option Info None Capacity Blocks Launch instances for your active capacity blocks

Summary Number of instances Info 1

Software Image (AMI) Amazon Linux 2023 AMI 2023.5.2... read more ami-0ed941b0a8fc70c

Virtual server type (instance type) t2.micro

Firewall (security group) quiz_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.

Cancel Launch instance Review commands

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This screenshot shows the 'Launch an instance' wizard in the AWS EC2 console. It's step 1 of 3, titled 'Configure instance details'. The user has selected the 'Amazon Linux 2023 AMI 2023.5.2...' and chosen the 't2.micro' instance type. They've also assigned it to the 'quiz_security_group'. The 'Number of instances' is set to 1. A modal window displays the 'Free tier' benefits for the first year. At the bottom right are 'Launch instance' and 'Review commands' buttons.

Activities Firefox Web Browser Launch AWS Academy Le x Launch an instance | EC2 x SecurityGroup | VPC Con x New Tab https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances: 9:49 29 سمبر

N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

EC2

Instance Create security group Select existing security group

Common security groups Info Select security groups cloud_quiz_group sg-0b50d0b53b79e188b3 X Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Advanced network interface configuration

Network interface Device index Info Network Interface Info Description Info New Interface

Subnet Subnet-0a72d658ace601b9f IP addresses available: 250 Primary IP Info 123.123.123.1 Show all selected (1)

Secondary IP Info Select The selected subnet does not support IPv6 IPs. The selected instance type does not support IPv4 prefixes.

IPv6 Prefixes Info Select Assign Primary IPv6 IP Info Select Delete on termination Info Select

The selected instance type does not support IPv6 prefixes. A primary IPv6 address is only compatible with subnets that support IPv6.

Interface type Info Select The selected instance type does not support multiple network cards.

Network card index Info Select ENA Express Info Select The selected instance type does not support ENA Express.

Summary Number of instances Info 1

Software Image (AMI) Amazon Linux 2023 AMI 2023.5.2... read more ami-0ed941b0a8fc70c

Virtual server type (instance type) t2.micro

Firewall (security group) cloud_quiz_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.

Cancel Launch instance Review commands

CloudShell Feedback sub Highlight All Match Case Match Diacritics Whole Words 2 of 2 matches © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

This screenshot shows the 'Launch an instance' wizard in the AWS EC2 console, step 2 of 3, titled 'Configure network interface details'. The user has selected the 'cloud_quiz_group' security group and chosen the 't2.micro' instance type. They've also assigned it to the 'cloud_quiz_group'. The 'Number of instances' is set to 1. A modal window displays the 'Free tier' benefits for the first year. At the bottom right are 'Launch instance' and 'Review commands' buttons.

The screenshot shows the AWS Management Console with the URL <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances>. The browser title bar includes the text "Launch AWS Academy Le..." and "Launch an instance | EC2". The main content area displays a green success message: "Successfully initiated launch of instance (i-0a6a9da79eba02802)". Below this, there's a "Launch log" link. The "Next Steps" section contains eight cards with various AWS services:

- Create billing and free tier usage alerts**: Configure alerts for costs and usage.
- Connect to your Instance**: Log in to the instance from your local computer.
- Connect an RDS database**: Configure the connection between an EC2 instance and an RDS database.
- Create EBS snapshot policy**: Automate the creation, retention, and deletion of EBS snapshots.
- Manage detailed monitoring**: Enable or disable detailed monitoring for the instance.
- Create Load Balancer**: Create an application, network gateway or classic Elastic Load Balancer.
- Create AWS budget**: Set budgets to forecast spend and take action on costs.
- Manage CloudWatch alarms**: Create or update CloudWatch alarms.

At the bottom, there are links for "CloudShell", "Feedback", and search functions, along with copyright information for Amazon Web Services and links for "Privacy", "Terms", and "Cookie preferences".

The screenshot shows the AWS CloudWatch Metrics dashboard for the instance `i-0a6a9da79eba02802`. The top navigation bar includes tabs for Launch AWS Academy, Instances | EC2 | us-east-1, SecurityGroup | VPC Con, New Tab, and a search bar for `https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:`. The left sidebar lists various AWS services like EC2 Dashboard, EC2 Global View, Events, Console-to-Code, 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, Elastic IPs, Placement Groups, Key Pairs, CloudShell, and Feedback.

The main content area displays the **Instances (1/5) Info** table with the following data:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
cloud_quiz_ec2	i-0a6a9da79eba02802	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	-	-
test1	i-0e9e74405e0696d51	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	ec2-1B-207-213-77.co...	18.207.213.77
test2	i-06ba327ccf180b015	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	ec2-54-161-181-95.co...	54.161.181.95
test4	i-0c0759e156289762e	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	-	-
test3	i-07cc919dd980d0e	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	ec2-44-203-181-145.co...	44.203.181.145

Below the table, there's a monitoring section for the instance `i-0a6a9da79eba02802` (cloud_quiz_ec2). It includes a CloudWatch Metrics tab, a note about including metrics in the CWAgent namespace, a Learn more link, and two sections for CPU utilization (%) and Network in (bytes).

The CPU utilization (%) chart shows no data available for the specified time range (16:00 to 16:45). The Network in (bytes) chart also shows no data available for the same time range. The Network out (bytes) chart shows no data available for the same time range. The Network packets in (count) chart shows a value of 1 for the same time range.

Activities Google Chrome

Classroom Manage x Classroom Manage x Quiz-1 x Lab 2Build your VP x Lab 3 Introduction x lab2_updated_scre x ChatGPT | OpenAI x ChatGPT x

9:52 ٢٩ سبتمبر ٢٠٢٤ ٧٨%

classroom.google.com/c/NzA0NzUwNDM2ODU0/a/NzEzMDMzODY5NjUz/details

Classroom > Cloud Computing with Big Data

Home Calendar Enrolled To-do Cloud Computing with Big data Natural Language Processing Spring 2024 Spring2023 - Deep Learning Spring 2023 BDA Spring 2022 Spring Spring2022 - Deep Learning Spring 2022 Tools and Techniques For DS Fall 2021 Archived classes Settings

Task:

Quiz-1

1. Launch an EC2 instance in the public subnet of your VPC and ensure termination protection is enabled.

2. Use the User Data script to automatically install a web server and display a custom welcome message (e.g., "Welcome to Our E-Commerce Site").

3. Monitor the instance using CloudWatch to ensure that it is running properly.

Question 4: Configuring Elastic Block Store (EBS)
The web server you set up needs additional storage for log files.

Task:

1. Create a new 10 GiB EBS volume and attach it to your EC2 instance.

2. Mount the volume and create a new directory /mnt/logs to store log files.

3. Ensure that the volume is mounted on every reboot.

Question 5: Backup and Recovery with EBS Snapshots
To ensure data durability, you need to create a backup solution for your EC2 instance storage.

Task:

1. Create a snapshot of your EBS volume that stores the log files.

2. Restore the snapshot to a new EBS volume and attach it to a different EC2 instance.

Question 6: Scaling the Web Application
Your website traffic has increased, and you need to resize your EC2 instance to handle more users.

Task:

1. Resize your EC2 instance from a t2.micro to a t2.medium instance.

Your work Assigned

+ Add or create

Mark as done

Work cannot be turned in after the due date

Private comments

Add comment to Zunurain Hussain

Activities Firefox Web Browser

Launch AWS Academy Le x Volumes | EC2 | us-east-1 x SecurityGroup | VPC Con x New Tab x

9:52 ٢٩ سبتمبر ٢٠٢٤ ٧٨%

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

N. Virginia vocabs/user\$488891@msd21045@itu.edu.pk @ 5399-1105-7447

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

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

CloudShell Feedback

sub

Successfully created volume vol-0f83bcd2bfaf1c70c2.

Volumes (7) Info

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state
-	vol-06bb09328c92d80b3c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1d	In-use
-	vol-009b5aef54ec85ff7	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1a	Available
-	vol-0e9bcfb56e0b86ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1a	Available
-	vol-0eb23e03a00effdc2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1a	In-use
-	vol-072f53df5347e5afa	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:49 GMT+5	us-east-1a	In-use
-	vol-0e8dd4c3556c1f03c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 20:57 GMT+5	us-east-1d	In-use
-	vol-0c70f5dbcc1c32ed4	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:13 GMT+5	us-east-1d	In-use

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes 0 / 7

Last updated on Sun, Sep 29, 2024, 09:52:54 PM (GMT+05:00)

Data Lifecycle Manager default policy for EBS Snapshots status Failed to fetch default policy status

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Activities Firefox Web Browser

Launch AWS Academy Le | Volumes | EC2 | us-east-1 | Example routing options: | RouteTables | VPC Consol | New Tab

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

N. Virginia vocabs/user\$4888941=msd21045@itu.edu.pk @ 5399-1105-7447

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

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Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

CloudShell Feedback

sub Highlight All Match Case Match Diacritics Whole Words 2 of 2 matches

Successfully created volume vol-0f83bcd2bfa1c70c2.

Volumes (1/8) info

Name Volume ID Type Size IOPS Throughput Snapshot ID Created Available

-	vol-06bb09328fc92d80b3c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1
-	vol-00bb5aaef54ec85f7	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1
<input checked="" type="checkbox"/>	vol-0f83bcd2bfa1c70c2	gp3	10 GiB	3000	125	-	2024/09/29 21:52 GMT+5	us-east-1
-	vol-0ebfb5b56edbb8ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1
-	vol-0eb23e03a0effdc2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1
-	vol-07f253df5347e5afa	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:49 GMT+5	us-east-1
-	vol-0ebdd4c3556cf103c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 20:57 GMT+5	us-east-1
-	vol-0c70f5d8cc1c32ed4	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:13 GMT+5	us-east-1d

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 Fault injection

Volume ID: vol-0f83bcd2bfa1c70c2

Details Status checks Monitoring Tags

Volume ID: vol-0f83bcd2bfa1c70c2

Size: 10 GiB

Type: gp3

Volume status: Okay

AWS Compute Optimizer finding: This user is not authorized to call AWS Compute Optimizer. | Retry

Fast snapshot restored: No

Availability Zone: us-east-1a

Created: Sun Sep 29 2024 21:52:44 GMT+0500 (Pakistan Standard Time)

IOPS: 3000

Throughput: 125

Attached resources: -

Outposts ARN: -

Multi-Attach enabled: No

Source: -

CloudShell Feedback

sub Highlight All Match Case Match Diacritics Whole Words 2 of 2 matches

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Activities Firefox Web Browser

Launch AWS Academy Le | Attach volume | EC2 | us-east-1 | Example routing options: | RouteTables | VPC Consol | New Tab

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AttachVolume:volumeId=vol-0f83bcd2bfa1c70c2

N. Virginia vocabs/user\$4888941=msd21045@itu.edu.pk @ 5399-1105-7447

EC2 > Volumes > vol-0f83bcd2bfa1c70c2 > Attach volume

Attach volume info

Attach a volume to an Instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID: vol-0f83bcd2bfa1c70c2

Availability Zone: us-east-1a

Instance: Info

Instance ID: i-0fa9a9da79eba02802

Only instances in the same Availability Zone as the selected volume are displayed.

Device name: Info

Device name: /dev/sdb

Recommended device names for Linux: /dev/xvdf for root volume. /dev/sdf for data volumes.

Info: Newer Linux kernels may rename your devices to /dev/xvdf through /dev/sd^y internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Cancel Attach volume

CloudShell Feedback

sub Highlight All Match Case Match Diacritics Whole Words 2 of 2 matches

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Firefox Web Browser

Launch AWS Academy Le | Volumes | EC2 | us-east-1 | Example routing options | RouteTables | VPC Consol | New Tab

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

N. Virginia vocabs/user\$4888941@msd21045@itu.edu.pk @ 5399-1105-7447

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

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Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

CloudShell Feedback

sub

Successfully attached volume vol-0f83bcd2bfa1c70c2 to instance i-0a6a9da79eba02802.

Volumes (8) Info

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state
-	vol-06bb09328b92d80b3c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1d	In-use
-	vol-00bb5aaef54ec85f7	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1a	Available
-	vol-0f83bcd2bfa1c70c2	gp3	10 GiB	3000	125	-	2024/09/29 21:52 GMT+5	us-east-1a	In-use
-	vol-0e9bcfb56edbb8ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1a	Available
-	vol-0eb23e03a0effdc2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1a	In-use
-	vol-072f53d5347e5afa	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:49 GMT+5	us-east-1a	In-use
-	vol-0ebdd4c35546cf103c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 20:57 GMT+5	us-east-1d	In-use
-	vol-0c70f5d8cc1c52ed4	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:15 GMT+5	us-east-1d	In-use

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes 0 / 7

Last updated on Sun, Sep 29, 2024, 09:52:54 PM (GMT+05:00)

Data Lifecycle Manager default policy for EBS Snapshots status Failed to fetch default policy status

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Firefox Web Browser

Launch AWS Academy Le | Settings | EC2 | us-east-1 | CreateVpcEndpoint | VPC | Example routing options | RouteTables | VPC Consol | New Tab

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Settings:tab=ec2SerialConsole

N. Virginia vocabs/user\$4888941@msd21045@itu.edu.pk @ 5399-1105-7447

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

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CloudShell Feedback

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EC2 > Settings

EC2 Serial Console Info

Allow or prevent access to your EC2 instances via the EC2 Serial Console for your account.

EC2 Serial Console access Allowed

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Activities Firefox Web Browser

Instances | EC2 | us-east-1 | ModifyOutboundSecurity | New Tab

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

N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

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

Instances (1/6) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Publ
cloud_quiz_ec2	i-06140c73d8b5350a5	Running	t2.micro	Initializing	View alarms +	us-east-1a	ec2-98-81-153-155.co...	98.81
test5	i-0a6a9da79eba02802	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	-	-
test1	i-0e9e744405e096d51	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	ec2-18-207-213-77.co...	18.20
test2	i-06ba527ccf180b015	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	ec2-54-161-181-95.co...	54.16
test4	i-0c0759e156289762e	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	-	-
test5	i-078cc919d980d0de	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d	ec2-44-203-181-145.co...	44.20

i-06140c73d8b5350a5 (cloud_quiz_ec2)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	i-06140c73d8b5350a5 (cloud_quiz_ec2)	Public IPv4 address	98.81.153.155 open address	Private IPv4 addresses	10.0.0.96
IPv6 address	-	Instance state	Running	Public IPv4 DNS	ec2-98-81-153-155.compute-1.amazonaws.com open address
Hostname type	IP name: ip-10-0-0-96.ec2.internal	Private IP DNS name (IPv4 only)	ip-10-0-0-96.ec2.internal	Elastic IP addresses	-
Answer private resource DNS name	-	Instance type	t2.micro	AWS Compute Optimizer finding	-
Auto-assigned IP address	-	VPC ID	-	© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences	

CloudShell Feedback

sec Highlight All Match Case Match Diacritics Whole Words 2 of 3 matches

Activities Firefox Web Browser

Launch AWS Academy Le | Connect to instance | EC2 | SecurityGroup | VPC Con ...

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#SecurityGroup:group-id=sg-0b50d853b78e188b3

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VPC dashboard EC2 Global View Filter by VPC

Virtual private cloud Your VPCs Subnets Route tables Internet gateways Egress-only internet gateways Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections Security Network ACLs Security groups DNS firewall Rule groups Domain lists Network Firewall CloudShell Feedback

Outbound security group rules successfully modified on security group (sg-0b50d853b78e188b3 | cloud_quiz_group)

sg-0b50d853b78e188b3 - cloud_quiz_group

Details

Security group name	cloud_quiz_group	Security group ID	sg-0b50d853b78e188b3	Description	allow http and ssh	VPC ID	vpc-0e3e79ef12e4c028
Owner	539911057447	Inbound rules count	0 Permission entries	Outbound rules count	2 Permission entries		

Inbound rules Outbound rules Tags

Outbound rules (2)

Name	Security group rule...	IP version	Type	Protocol	Port range	Destination	Descr
-	sgr-0956580a2a4ddc6...	IPv4	SSH	TCP	22	18.206.107.24/29	-
-	sgr-02e831088be2c89...	IPv4	HTTP	TCP	80	0.0.0.0/0	-

CloudShell Feedback

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-06140c73d8b5350a5

EC2 Services Search [Alt+S] N. Virgins vocabs/user\$488941=msds21045@itu.edu.pk @ 5399-1105-7447

EC2 Instances > i-06140c73d8b5350a5 > Connect to instance

Connect to instance

Connect to your Instance i-06140c73d8b5350a5 (cloud_quiz_ec2) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

⚠ Port 22 (SSH) is not authorized
Port 22 (SSH) is currently not authorized by your security group. To use EC2 Instance Connect, you must authorize port 22 for the EC2 Instance Connect service IP addresses in your Region: 18.206.107.24/29.
[Learn more.](#)

Instance ID: i-06140c73d8b5350a5 (cloud_quiz_ec2)

Connection Type:

- Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.
- Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IPv4 address: 98.81.153.155

IPv6 address: -

Username: ec2-user

Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

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Activities Google Chrome

Classroom Management x Classroom Management x Quiz-1 x Lab 4 Working with EBS x Lab 3 Introduction to A x AWS Mount the volume x ChatGPT x +

classroom.google.com/c/NzAQNzUwNDM2ODU0/a/NzEzMDMzODY5NjUz/details

Quiz-1Business Scenario.docx Computing with Big Data

Home Calendar Enrolled To-do Cloud Computing with Big data... Natural Language Processing Spring 2024 Spring 2023 Spring 2022 - Deep Learning BDA Spring 2022 Spring 2021 Spring 2022 - Deep Learning Spring 2022 Tools and Techniques For DS Fall 2021 Archived classes Settings

2. Use the User Data script to automatically start a web server and display a custom welcome message (e.g., "Welcome to Our E-Commerce Site!").

3. Monitor the instance using CloudWatch to ensure that it is running properly.

Question 4: Configuring Elastic Block Store (EBS)
The web server you set up needs additional storage for log files.

Task:

- Create a new 10 GiB EBS volume and attach it to your EC2 instance.
- Mount the volume and create a new directory /mnt/logs to store log files.
- Ensure that the volume is mounted on every reboot.

Question 5: Backup and Recovery with EBS Snapshots
To ensure data durability, you need to create a backup solution for your EC2 instance storage.

Task:

- Create a snapshot of your EBS volume that stores the log files.
- Restore the snapshot to a new EBS volume and attach it to a different EC2 instance.

Question 6: Scaling the Web Application
Your website traffic has increased, and you need to resize your EC2 instance to handle more users.

Task:

- Resize your EC2 instance from a t2.micro to a t2.medium instance.
- Also, increase the size of the root EBS volume from 8 GiB to 16 GiB to accommodate more application files.

Bonus Question: High Availability
The company is expanding, and you need to ensure high availability of the web application.

Task:

- Create two additional subnets in different Availability Zones.
- Deploy a second EC2 instance in one of these subnets, and ensure that the traffic is distributed evenly using an Elastic Load Balancer (ELB).

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Activities Firefox Web Browser

Launch AWS Academy Le X Volumes | EC2 | us-east-1 X Problem loading page X Prerequisites for EC2 Inst X SecurityGroup | VPC Con X +

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

N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

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Volumes (1/9) Info

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume status
-	vol-06b09528c92d80b3c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1d	In-use
-	vol-00bb5aef54ec85f7	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1a	Available
<input checked="" type="checkbox"/>	vol-0f83bcd2bfa1c70c2	gp3	10 GiB	3000	125	-	2024/09/29 21:52 GMT+5	us-east-1a	In-use
-	vol-0ad3b715899fd0304	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 22:29 GMT+5	us-east-1a	Available
-	vol-0e9bcfb56e0b86ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1a	Available
-	vol-0eb23e03a00effdc2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1a	Available
-	vol-072f53df5347e5afa	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:49 GMT+5	us-east-1a	Available
-	vol-0e8dd4c3556c1f03c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 20:57 GMT+5	us-east-1d	In-use
-	vol-0c705dbcc1c32ed4	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:13 GMT+5	us-east-1d	In-use

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 Fault injection

Volume ID: vol-0f83bcd2bfa1c70c2

Details Status checks Monitoring Tags

Volume ID vol-0f83bcd2bfa1c70c2	Size 10 GiB	Type gp3	Volume status Okay
AWS Compute Optimizer finding This user is not authorized to call AWS Compute Optimizer. Retry	Volume state In-use	IOPS 3000	Throughput 125
Fast snapshot restored No	Availability Zone us-east-1a	Created Sun Sep 29 2024 21:52:44 GMT+0500 (Pakistan Standard Time)	Multi-Attach enabled No
Attached resources i-0a6a9da79eba02602 (test5): /dev/sdb (attached)	Outposts ARN -		
Source			

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

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Successfully created snapshot snap-0e9199e72a3e299b from volume vol-0f83bcd2bfa1c70c2.

If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Volumes (9) Info

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state
-	vol-06b09528c92d80b3c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1d	In-use
-	vol-00bb5aef54ec85f7	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1a	Available
<input checked="" type="checkbox"/>	vol-0f83bcd2bfa1c70c2	gp3	10 GiB	3000	125	-	2024/09/29 21:52 GMT+5	us-east-1a	In-use
-	vol-0ad3b715899fd0304	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 22:29 GMT+5	us-east-1a	Available
-	vol-0e9bcfb56e0b86ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1a	Available
-	vol-0eb23e03a00effdc2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1a	In-use
-	vol-072f53df5347e5afa	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:49 GMT+5	us-east-1a	In-use
-	vol-0e8dd4c3556c1f03c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 20:57 GMT+5	us-east-1d	In-use
-	vol-0c705dbcc1c32ed4	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:13 GMT+5	us-east-1d	In-use

Manage fast snapshot restore

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes 0 / 9

Last updated on Sun, Sep 29, 2024, 10:51:36 PM (GMT+05:00)

Data Lifecycle Manager default policy for EBS Snapshots status Failed to fetch default policy status

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

N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

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EC2 Global View

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AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

CloudShell Feedback

Successfully created snapshot snap-0e9199e72a3e299b8 from volume vol-0f85bcd2bfa1c70e2.

If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Manage fast snapshot restore X

Volumes (9) Info

Search

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state
-	vol-06bb09320c92d80b3c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1d	In-use
-	vol-000bb5aef54ec85ff7	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1a	Available
-	vol-0f85bcd2bfa1c70e2	gp3	10 GiB	3000	125	-	2024/09/29 21:52 GMT+5	us-east-1a	In-use
-	vol-0ad38715899fd030a	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 22:29 GMT+5	us-east-1a	In-use
-	vol-0eb9bcfb56e0b86ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1a	Available
-	vol-0eb23e03a0effdc2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1a	In-use
-	vol-07f5f5df53a7e5afa	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:49 GMT+5	us-east-1a	In-use

Fault tolerance for all volumes in this Region

Snapshot summary

Last updated on Sun, Sep 29, 2024, 10:51:36 PM (GMT+05:00)

Recently backed up volumes / Total # volumes 0 / 9

Data Lifecycle Manager default policy for EBS Snapshots status Failed to fetch default policy status

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

N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

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Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

CloudShell Feedback

Snapshots (1) Info

Owned by me Search

Name	Snapshot ID	Volume size	Description	Storage tier	Snapshot status	Started	Progress	Encryption
-	snap-0e9199e72a3e299b8	10 GiB	log_files_snap_shot	Standard	Completed	2024/09/29 22:52 GMT+5	Available (100%)	Not encrypt

Select a snapshot above.

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Activities Firefox Web Browser

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

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EC2

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 Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

Snapshots (1) Info Owned by me Search

Name Snapshot ID Volume size Description Storage tier Snapshot status Started Progress Encryption

snap-0e9199e72a3e299b0 10 GiB log_files_snap_shot Standard Completed 2024/09/29 22:52 GMT+5 Available (100%) Not encrypt

Select a snapshot above.

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Launch AWS Academy Le X Volumes | EC2 | us-east-1 X Problem loading page X Prerequisites for EC2 Instl X SecurityGroup | VPC Con X +

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

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EC2

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Volumes (1/10) Info

Name Volume ID Type Size IOPS Throughput Snapshot ID Created Availability Zone Volume state

vol-064ac2acf451679ae gp3 10 GiB 3000 125 snap-0e9199e... 2024/09/29 22:53 GMT+5 us-east-1a Available

vol-06b0952e9280b0b gp3 8 GiB 3000 125 snap-0011aac... 2024/09/29 21:10 GMT+5 us-east-1d In-use

vol-00bb5ae54ec85f7 gp3 10 GiB 3000 125 - 2024/09/29 21:01 GMT+5 us-east-1a Available

vol-0f93bd2d2bf1c70c2 gp3 10 GiB 3000 125 - 2024/09/29 21:52 GMT+5 us-east-1a In-use

vol-0ad38715899fd0304 gp3 8 GiB 3000 125 snap-0011aac... 2024/09/29 22:29 GMT+5 us-east-1a In-use

vol-0e9fb5b56eb0b6ec1 gp3 10 GiB 3000 125 - 2024/09/29 21:25 GMT+5 us-east-1a Available

vol-0e023e03a0ef0fc2 gp3 8 GiB 3000 125 snap-0011aac... 2024/09/29 21:19 GMT+5 us-east-1a In-use

vol-072f5df5347e5afa gp3 8 GiB 3000 125 snap-0011aac... 2024/09/29 21:49 GMT+5 us-east-1a In-use

vol-0ebdd4c3556c1f03c gp3 8 GiB 3000 125 snap-0011aac... 2024/09/29 20:57 GMT+5 us-east-1d In-use

Volume ID: vol-064ac2acf451679ae

Details Status checks Monitoring Tags

Volume ID vol-064ac2acf451679ae	Size 10 GiB	Type gp3	Volume status Okay
AWS Compute Optimizer finding This user is not authorized to call AWS Compute Optimizer. Retry	Volume state Available	IOPS 3000	Throughput 125
Fast snapshot restored No	Availability Zone us-east-1a	Created Sun Sep 29 2024 22:53:23 GMT+0500 (Pakistan Standard Time)	Multi-Attach enabled No
Attached resources -	Outposts ARN -		
Source			

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Firefox Web Browser

Launch AWS Academy Le | Volumes | EC2 | us-east-1 | Problem loading page | Prerequisites for EC2 Instl | SecurityGroup | VPC Con... +

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

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

Volumes (10) Info

Successfully attached volume vol-064ac2acf451679ae to instance i-06140c73d8b5350a9.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state
-	vol-064ac2acf451679ae	gp3	10 GiB	3000	125	snap-0e5199e...	2024/09/29 22:53 GMT+5	us-east-1a	In-use
-	vol-06b09528c92d80b5c	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1d	In-use
-	vol-00bb5aef54ec85ff	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1a	Available
-	vol-0f53bc2d2fa1c70c2	gp3	10 GiB	3000	125	-	2024/09/29 21:52 GMT+5	us-east-1a	In-use
-	vol-0ad58715899fd0304	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 22:29 GMT+5	us-east-1a	In-use
-	vol-0ebfbcb58edbb8ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1a	Available
-	vol-0eb23e03a0effdc2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1a	In-use
-	vol-072f53df5347e5afa	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:49 GMT+5	us-east-1a	In-use

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes: 0 / 9

Last updated on Sun, Sep 29, 2024, 10:51:36 (GMT+05:00)

Data Lifecycle Manager default policy for EBS Snapshots status

CloudShell Feedback

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Classroom Management | Classroom Management | Quiz-1 | Lab 4 Working with EBS | Lab 3 Introduction to AI | AWS Mount the volume | ChatGPT

classroom.google.com/c/NzAQNzUwNDM2ODU0/a/NzEzMDMzODY5NjUz/details

Question 4: Configuring Elastic Block Store (EBS)

The web server you set up needs additional storage for log files.

Task:

- Create a new 10 GiB EBS volume and attach it to your EC2 instance.
- Mount the volume and create a new directory /mnt/logs to store log files.
- Ensure that the volume is mounted on every reboot.

Question 5: Backup and Recovery with EBS Snapshots

To ensure data durability, you need to create a backup solution for your EC2 instance storage.

Task:

- Create a snapshot of your EBS volume that stores the log files.
- Restore the snapshot to a new EBS volume and attach it to a different EC2 instance.

Question 6: Scaling the Web Application

Your website traffic has increased, and you need to resize your EC2 instance to handle more users.

Task:

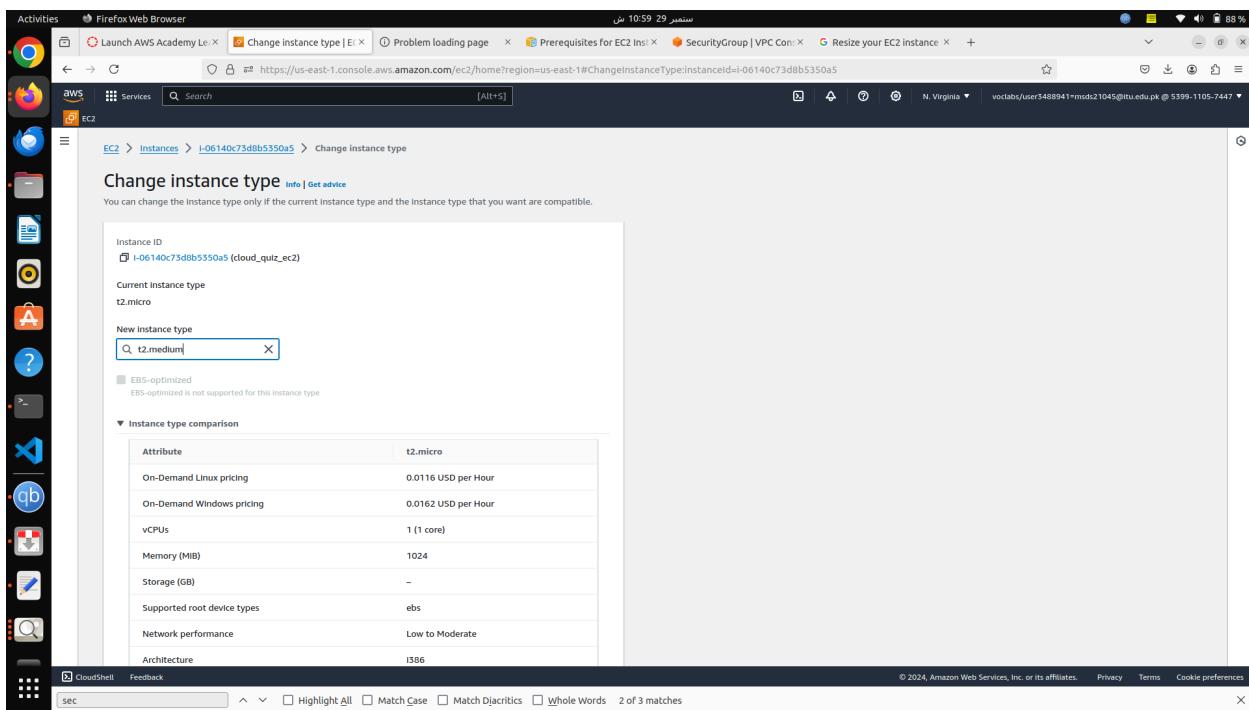
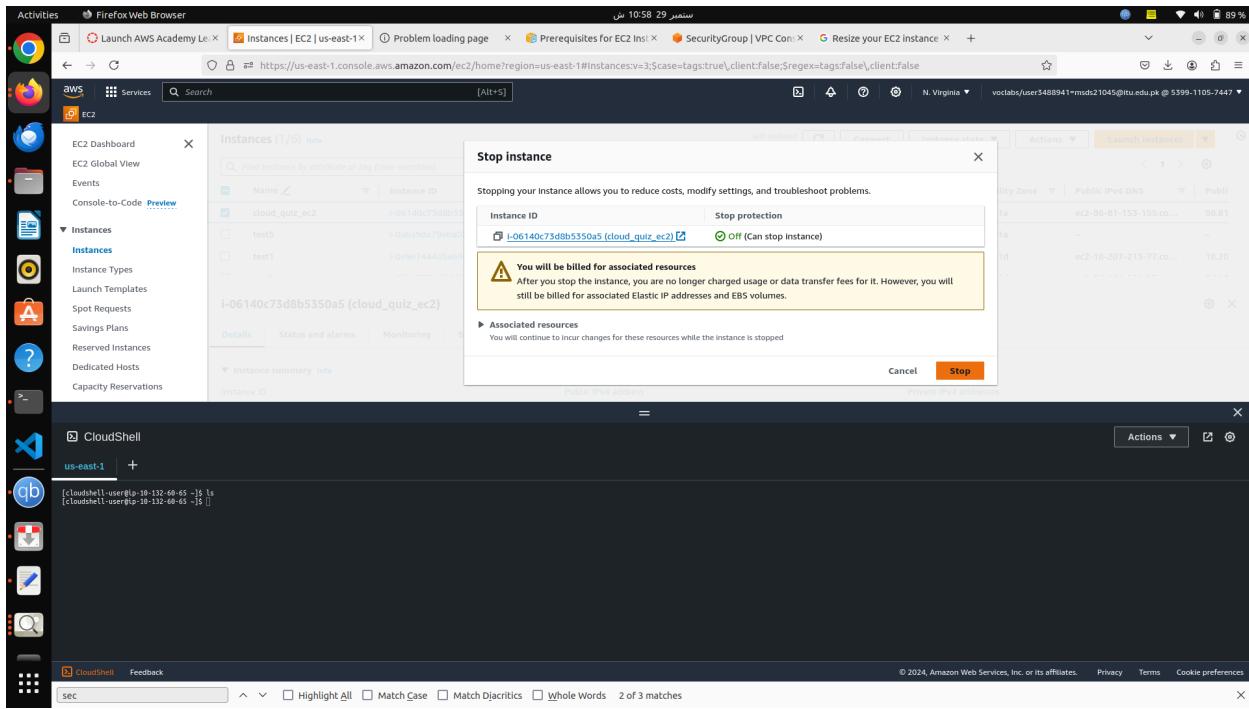
- Resize your EC2 instance from a t2.micro to a t2.medium instance.
- Also, increase the size of the root EBS volume from 8 GiB to 16 GiB to accommodate more application files.

Bonus Question: High Availability

The company is expanding, and you need to ensure high availability of the web application.

Task:

- Create two additional subnets in different Availability Zones.
- Deploy a second EC2 instance in one of these subnets, and ensure that the traffic is distributed evenly using an Elastic Load Balancer (ELB).



Activities Firefox Web Browser سهیم 29 11:00

Launch AWS Academy Lear | E | Problem loading page Prerequisites for EC2 Insta | SecurityGroup | VPC Conso | Resize your EC2 instance fr +

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ChangeinstanceType:instancetype=i-06140c73d8b5350a5

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941=msd21045@itu.edu.pk @ 5399-1105-7447

EC2

t2.micro

New Instance type t2.medium

Enter a valid instance type

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

Instance type comparison

Attribute	t2.micro
On-Demand Linux pricing	0.0116 USD per Hour
On-Demand Windows pricing	0.0162 USD per Hour
vCPUs	1 (1 core)
Memory (MiB)	1024
Storage (GB)	-
Supported root device types	ebs
Network performance	Low to Moderate
Architecture	i386
Burstable	true
Free-tier eligible	true
Current generation	true

Compare more Instance type attributes [\[+\] Details](#)

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Activities Firefox Web Browser سهیم 29 11:01

Launch AWS Academy Lear | Volumes | EC2 | us-east-1 | Problem loading page Prerequisites for EC2 Insta | SecurityGroup | VPC Conso | Resize your EC2 instance fr +

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

AWS Services Search [Alt+S] N. Virginia vocabs/user\$488941=msd21045@itu.edu.pk @ 5399-1105-7447

EC2

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EC2 Global View

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Successfully attached volume vol-064ac2acf451679ae to Instance i-06140c73d8b5350a5.

Volumes (10) Info

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state
-	vol-064ac2acf451679ae	gp3	10 GiB	3000	125	snap-0e5199e...	2024/09/29 22:53 GMT+5	us-east-1a	In-use
-	vol-06090932bc92d80b5	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1d	In-use
-	vol-00bb5ae54ec85ff7	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1a	Available
-	vol-0f83bcd22bf1c70c2	gp3	10 GiB	3000	125	-	2024/09/29 21:52 GMT+5	us-east-1a	In-use
-	vol-0ad58715899fd0304	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 22:29 GMT+5	us-east-1a	In-use
-	vol-0e9cb5e6db86ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1a	Available
-	vol-0eb23e03a00effd2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1a	In-use
-	vol-072f53df5347e5afa	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:49 GMT+5	us-east-1a	In-use

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes 0 / 9

Last updated on Sun, Sep 29, 2024, 10:51:36 PM (GMT+05:00)

Data Lifecycle Manager default policy for EBS Snapshots status
Failed to fetch default policy status

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Activities Firefox Web Browser

Launch AWS Academy Lear Modify volume | EC2 | us- Problem loading page Prerequisites for EC2 Instal SecurityGroup | VPC Consol Resize your EC2 instance fr

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyVolume:volumeId=vol-0ad38715899fd0304

EC2 Services Search [Alt+S] N. Virginia vocabs/user\$488941@msd21045@itu.edu.pk @ 5399-1105-7447

EC2 > Volumes > vol-0ad38715899fd0304 > Modify volume

Modify volume Info

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

Volume details

Volume ID: [vol-0ad38715899fd0304](#)

Volume type: Info General Purpose SSD (gp3)

Size (GiB): Info 8
Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

IOPS: Info 3000
Min: 5000 IOPS, Max: 16000 IOPS. The value must be an integer.

Throughput (MiB/s): Info 125
Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

Cancel **Modify**

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Highlight All Match Case Match Diacritics Whole Words 2 of 3 matches

The screenshot shows the 'Modify volume' configuration page for an EBS volume. The volume ID is vol-0ad38715899fd0304. The volume type is set to 'General Purpose SSD (gp3)'. The size is 8 GiB, IOPS is 3000, and throughput is 125 MiB/s. The 'Modify' button is highlighted in orange.

Activities Firefox Web Browser سطح مكتب 29 11:01:29

Launch AWS Academy Lear | Modify volume | EC2 | us-east-1 | Problem loading page | Prerequisites for EC2 Instal | SecurityGroup | VPC Consol | Resize your EC2 instance fr +

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EC2

EC2 > Volumes > vol-0ad38715899fd0304 > Modify volume

Modify volume info

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

Volume details

Volume ID: vol-0ad38715899fd0304

Volume type: General Purpose SSD (gp3)

Size (GiB): 16
Min 1 GiB, Max 16384 GiB. The value must be an integer.

IOPS (IOPS): 3000
Min 500 IOPS, Max 10000 IOPS. The value must be an integer.

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

Modify vol-0ad38715899fd0304

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-0ad38715899fd0304?

Cancel Modify

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Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

Volumes (10) Info

Requested volume modification for volume vol-0ad38715899fd0304. The volume is being modified.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone	Volume state
-	vol-064ac2acf451679ae	gp3	10 GiB	5000	125	snap-0e9199e...	2024/09/29 22:55 GMT+5	us-east-1a	In-use
-	vol-06b09528c92d80b5	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:10 GMT+5	us-east-1d	In-use
-	vol-00bb5aef54ec85ff	gp3	10 GiB	3000	125	-	2024/09/29 21:01 GMT+5	us-east-1a	Available
-	vol-0f53bc2d2fa1c70c2	gp3	10 GiB	3000	125	-	2024/09/29 21:52 GMT+5	us-east-1a	In-use
-	vol-0ad38715899fd0304	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 22:29 GMT+5	us-east-1a	In-use - modifying
-	vol-0ebcb5b5e0db88ec1	gp3	10 GiB	3000	125	-	2024/09/29 21:25 GMT+5	us-east-1a	Available
-	vol-0eb23e03a0effdc2	gp3	8 GiB	3000	125	snap-0011aac...	2024/09/29 21:19 GMT+5	us-east-1a	In-use

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes 0 / 9

Last updated on Sun, Sep 29, 2024, 10:51:36 PM (GMT+05:00)

Data Lifecycle Manager default policy for EBS Snapshots status
Failed to fetch default policy status

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