

Assisted Practice Project2-

Problem 1

The screenshot shows the AWS EC2 Instances page. The left sidebar is expanded, showing the 'Instances' section with options like 'Instances', 'Instance Types', 'Launch Templates', etc. The main content area displays a message: 'No instances' and 'You do not have any instances in this region'. A large button labeled 'Launch instances' is prominently displayed.

The screenshot shows the 'Launch an instance' wizard, step 1: 'Name and tags'. The page title is 'Launch an instance'. It includes a sub-section header 'Name and tags'. Under this, there are fields for 'Key' (set to 'linux') and 'Value' (set to 'Myinstanceee2'). Below these are dropdown menus for 'Resource types' (set to 'Instances') and 'Volumes'. A button 'Add new tag' is visible at the bottom left, and a note says 'You can add up to 49 more tags.'

The screenshot shows the AWS EC2 console with the URL <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances>. The page displays a catalog of Amazon Machine Images (AMIs). A search bar at the top allows users to search for AMIs. Below the search bar, there are two tabs: "Recents" and "Quick Start". Under "Quick Start", there are six categories: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE Linux, each with a corresponding icon. To the right of these icons is a "Browse more AMIs" button with a magnifying glass icon, which includes a note about including AMIs from AWS, Marketplace, and the Community.

The screenshot shows the AWS EC2 console displaying the details of the "Amazon Linux 2023 AMI". The URL is <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances>. The page provides specific information about the AMI, including its ID (ami-05548f9cecf47b442), architecture (64-bit (x86)), and virtualization type (hvm). It also indicates that ENA is enabled and the root device type is ebs. The AMI is marked as "Free tier eligible". Below this, the "Instance type" section is expanded, showing the "t2.micro" instance type. It lists the family (t2), vCPU count (1), memory (1 GiB), current generation status, and pricing details for On-Demand Windows, SUSE, RHEL, and Linux instances. There are also buttons for "All generations" and "Compare instance types".

Security group rule 2 (TCP, 80, 0.0.0.0/0)

Type [Info](#) Protocol [Info](#) Port range [Info](#)

HTTP TCP 80

Source type [Info](#) Source [Info](#) Description - optional [Info](#)

Anywhere [Add CIDR, prefix list or security group](#) e.g. SSH for admin desktop

0.0.0.0/0 [X](#)

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

Add security group rule

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.1.2... [read more](#)

ami-05548f9cecf47b442

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

Cancel [Launch instance](#) Review commands

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like EC2 Dashboard, EC2 Global View, Events, Instances, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, and Security Groups. The main area displays a table titled "Instances (1/1) Info". The table has columns for Name, Instance ID, Instance state, Instance type, Status check, and Alarms. One row is selected, showing "Myinstanceece2" with Instance ID "i-03019ee1cc6e2526d", State "Running", Type "t2.micro", and 2/2 checks passed. Below the table, a detailed view for "Instance: i-03019ee1cc6e2526d (Myinstanceece2)" is shown with tabs for Details, Security, Networking, Storage, Status checks, Monitoring, and Tags. Under the Details tab, the Instance ID is listed as "i-03019ee1cc6e2526d (Myinstanceece2)". The Public IPv4 address is "3.89.49.132" with a link to "open address". The Private IPv4 address is "172.31.22.33". The Instance state is "Running". The Public IPv4 DNS is "54.173.103.75". At the bottom of the page, there are links for CloudShell, Feedback, Language, and a footer with copyright information.

Problem 2

The screenshot shows the "Create volume" page in the AWS Management Console. The URL in the browser is "https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateVolume". The page has a sidebar with "Services" and "Search" buttons. The main content area is titled "Volume settings". It includes fields for "Volume type" (set to "General Purpose SSD (gp2)", "Size (GiB)" (set to "2"), "IOPS" (set to "100 / 3000"), "Throughput (MiB/s)" (set to "Not applicable"), "Availability Zone" (set to "us-east-1c"), and "Snapshot ID - optional". There are also "Info" links for each setting. At the bottom, there are links for CloudShell, Feedback, Language, and a footer with copyright information.

Screenshot of the AWS EC2 Management Console showing the Volumes page. The 'Actions' menu is open, with 'Attach volume' selected.

Volumes (1/4) Info

Name	Volume ID	Type	Size
-	vol-07f11851912b8ca8b	gp2	2 GiB
-	vol-0e4a50526cb690536	gp3	8 GiB
-	vol-0122c168b383ed941	st1	500 GiB
-	vol-0a429063fa3b351ce	gp3	8 GiB

Volume ID: vol-07f11851912b8ca8b

Details	Status checks	Monitoring	Tags	Volume status
Volume ID vol-07f11851912b8ca8b	Size 2 GiB	Type gp2		Volume status Okay
AWS Compute Optimizer finding This user is not authorized to call AWS Compute	Volume state Available	IOPS 100		Throughput

Actions

- 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

Screenshot of the AWS EC2 Management Console showing the 'Attach volume' configuration page.

Basic details

Volume ID: vol-02dc9fd872822e2b5

Availability Zone: us-east-1a

Instance: i-0acaee31b9fb86f6d

Device name: /dev/sdf

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

Recommended device names for Linux: /dev/sda1 for root volume, /dev/sdf-f-p for data volumes.

Info

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

The screenshot shows the AWS EC2 Management Console interface. The main content area displays a message: "Successfully stopped i-09ca5a45bd0429a16". Below this, the "Instances (1/2) Info" section lists two instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm st
MYLABEC2-2	i-09ca5a45bd0429a16	Stopped	t2.micro	-	No alarm
Deploy	i-Oacaae31b9fb86f6d	Running	t2.micro	2/2 checks passed	No alarm

Below the table, the "Instance: i-Oacaae31b9fb86f6d (Deploy)" details are shown. It indicates the device is EBS and disabled. Under "Block devices", there is one entry:

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time
vol-0aa429063fa3fb31ce	/dev/xvda	8	Attached	2023/07/26 13:49 GMT+5

Problem 3

The screenshot shows the AWS EC2 Management Console with the sidebar expanded. The "Placement Groups" section is selected. The main content area displays a message: "You do not have any Placement groups in this region". A blue button labeled "Create Placement Group" is visible.

Left sidebar (expanded):

- INSTANCES
 - Instances
 - Launch Templates
 - Spot Requests
 - Reserved Instances
 - Dedicated Hosts
 - Scheduled Instances
 - Capacity Reservations
- IMAGES
 - AMIs
 - Bundle Tasks
- 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
- AUTO SCALING
 - Launch Configurations

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	vpc-4e244834 (default)	<input type="button" value="Create new VPC"/>
Subnet	No preference (default subnet in any Availability Zone)	<input type="button" value="Create new subnet"/>
Auto-assign Public IP	<input type="button" value="Use subnet setting (Enable)"/>	
Placement group	<input checked="" type="checkbox"/> Add instance to placement group	
Placement group name	<input checked="" type="radio"/> Add to existing placement group. <input type="radio"/> Add to a new placement group. <input type="button" value="Choose placement group"/>	
Capacity Reservation	<input type="button" value="simpilearn spread"/>	
IAM role	None	
Shutdown behavior	Stop	
<input type="button" value="Cancel"/> <input type="button" value="Previous"/> <input type="button" value="Review and Launch"/> <input type="button" value="Next: Add Storage"/>		

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Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
i-042fb99c2e3ee710f	i2.micro	us-east-1a	terminated					-
i-07ccbc006eb412b0f	i2.micro	us-east-1c	running	2/2 checks ...	None		ec2-34-207-220-254.co...	34.207.220.254
i-07f602837b831d86a	i2.micro	us-east-1c	terminated					-

Termination protection: False
 Lifecycle: normal
 Monitoring: basic
 Alarm status: None
 Kernel ID: -
 RAM disk ID: -
 Placement group: simpilearn
 Partition number: -
 Virtualization: hvm
 Reservation: r-02803c51a5807016a
 AMI launch index: 0
 Tenancy: default
 Host ID: -
 Affinity: -
 State transition reason: -
 State transition reason message: -
 Stop - Hibernation behavior: Disabled
 Number of vCPUs: 1

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Problem 4

Create Volume

Volume Type: General Purpose SSD (gp2) (i)

Size (GiB): 1 (Min: 1 GiB, Max: 16384 GiB) (i)

IOPS: 100 / 3000 (Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS) (i)

Availability Zone*: us-east-1a (i)

Throughput (MB/s): Not applicable (i)

Snapshot ID: Select a snapshot (C) (i)

Encryption: Encrypt this volume

Tags

Key	(128 characters maximum)	Value	(256 characters maximum)
This resource currently has no tags			
Choose the Add tag button or click to add a Name tag			

Add Tag 50 remaining (Up to 50 tags maximum)

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EC2 Dashboard

- Events
- Tags
- Reports
- Limits

INSTANCES

- Instances
- Launch Templates
- Spot Requests
- Reserved Instances
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

IMAGES

- AMIs
- Bundle Tasks

ELASTIC BLOCK STORE

- Volumes**
- Snapshots
- Lifecycle Manager

NETWORK & SECURITY

- Security Groups
- Elastic IPs
- Placement Groups
- Key Pairs

Create Volume Actions

Filter by tags and attributes or search by keyword

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status
vol-01bab43...	1 GiB	gp2	100	September 21, 201...	us-east-1a	available	None		
vol-037de51...	8 GiB	gp2	100	September 21, 201...	us-east-1c	in-use	None		

Volumes: vol-037de514fb90f1baf

Description	Status Checks	Monitoring	Tags
Volume ID: vol-037de514fb90f1baf	Size: 8 GiB	Created: September 21, 2019 at 8:35:08 PM UTC+1	Alarm status: None Snapshot: snap-05a19c3561abd794a Availability Zone: us-east-1c

Problem 5

Attaching an existing EBS volume

- Select an existing volume and click on *Attach Volume*
- Select the instance

Attach Volume

Volume [i](#) vol-3113afe8 in ap-northeast-2a
Instance [i](#) i-5f2b41f8 in ap-northeast-2a
Device [i](#) /dev/sdf
Linux Devices: /dev/sdf through /dev/sdp

Note: Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name is still /dev/sdf.

Problem 6

The screenshot shows the AWS EC2 Dashboard with the 'Volumes' section selected. On the left, there's a sidebar with various navigation links like EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, AMIs, and Elastic Block Store. The 'Volumes' link under 'ELASTIC BLOCK STORE' is highlighted.

In the main content area, there's a 'Create Volume' button and an 'Actions' dropdown menu. The 'Actions' menu is open, showing options: Modify Volume, Create Snapshot, Delete Volume, Attach Volume, Detach Volume (which is highlighted in orange), Force Detach Volume, Change Auto-Enable IO Setting, and Add/Edit Tags. Below this, a table lists two volumes: gp2 (100 IOPS) and gp2 (100 IOPS). The gp2 (100 IOPS) row has a 'Detach Volume' button next to it.

At the bottom, there's a detailed view for a specific volume with ID vol-0967fdfb8dcde0f2. It shows the Volume ID, Size (1 GiB), Alarm status (None), and Snapshot (-).

EC2 Dashboard

Volumes

Name	Volume ID	Size	Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status
vol-0967fdf...	1 GiB	gp2	100		September 21, 201...	us-east-1c	in-use	None	
vol-037de51...	8 GiB	gp2	100	snap-05a19c3...	September 21, 201...	us-east-1c	in-use	None	

Detach Volume

Are you sure you want to detach this volume?

- vol-0967fdf...

Volumes: vol-0967fdf...

Description **Status Checks** **Monitoring** **Tags**

Volume ID: vol-0967fdf...

Size: 1 GiB

Alarm status: None

Snapshot: -

EC2 Dashboard

Volumes

Name	Volume ID	Size	Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status
vol-0967fdf...	1 GiB	gp2	100		September 21, 201...	us-east-1c	available	None	
vol-037de51...	8 GiB	gp2	100	snap-05a19c3...	September 21, 201...	us-east-1c	in-use	None	

Volumes: vol-0967fdf...

Description **Status Checks** **Monitoring** **Tags**

Volume ID: vol-0967fdf...

Size: 1 GiB

Alarm status: None

Snapshot: -

Problem 7

Screenshot of the AWS EC2 Dashboard showing the Elastic Block Store (EBS) section. The left sidebar includes links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, AMIs, Bundle Tasks, and EBS Volumes.

The main area shows a table of volumes:

Name	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status
gp2	100		September 21, 201...	us-east-1c	available	None	
gp2	100	snap-05a19c3...	September 21, 201...	us-east-1c	in-use	None	

An "Actions" dropdown menu is open over the first volume, showing options: Modify Volume, Create Snapshot, Delete Volume, Attach Volume, Detach Volume, Force Detach Volume, Change Auto-Enable IO Setting, and Add/Edit Tags. The "Delete Volume" option is highlighted.

Below the table, a detailed view for the first volume is shown:

Volumes: vol-0967fdfeb8dcde0f2

- Description: Volume ID: vol-0967fdfeb8dcde0f2, Size: 1 GiB
- Status Checks: Alarm status: None, Snapshot: -

Screenshot of the AWS EC2 Dashboard showing the EBS section. The left sidebar includes links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Launch Templates, Spot Requests, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, AMIs, Bundle Tasks, and EBS Volumes.

The main area shows a table of volumes:

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status
vol-0967fdfe...	1 GiB	gp2	100		September 21, 201...	us-east-1c	available	None	
vol-037de51...	8 GiB	gp2	100	snap-05a19c3...	September 21, 201...	us-east-1c	in-use	None	

A "Delete Volume" dialog box is displayed in the center, asking "Are you sure you want to delete this volume?". It lists the volume ID: vol-0967fdfeb8dcde0f2. The "Yes, Delete" button is highlighted.

Below the dialog, a detailed view for the first volume is shown:

Volumes: vol-0967fdfeb8dcde0f2

- Description: Volume ID: vol-0967fdfeb8dcde0f2, Size: 1 GiB
- Status Checks: Alarm status: None, Snapshot: -

Problem 8

Screenshot of the AWS EC2 Management Console showing the successful attachment of a volume to an instance.

The screenshot shows the EC2 Volumes page with one volume listed:

Name	Volume ID	Type	Size
-	vol-01d218f399ea70cd2	gp3	8 GiB
<input checked="" type="checkbox"/>	vol-04a50df34a850e6ec	gp2	2 GiB

The Actions menu is open, and the "Create snapshot" option is selected.

Screenshot of the AWS EC2 Management Console showing the creation of a new snapshot from a selected volume.

The screenshot shows the "Create snapshot" wizard step. The volume selected is "vol-04a50df34a850e6ec".

Description: "snapshot of main drive"

Encryption: "Not encrypted"

Tags:

Key	Value - optional
linux	first

Buttons: "Cancel" and "Create snapshot".

Problem 9

Snapshots (1/1) Info

Name	Snapshot ID	Volume size	Description	Storage tier
-	snap-0cbac0ba5e384a309	2 GiB	snapshot of main drive	Standard

Snapshot ID: snap-0cbac0ba5e384a309

Details		Permissions	Storage tier	Tags
Snapshot ID	Volume size	Progress	Snapshot status	
snap-0cbac0ba5e384a309	2 GiB	Available (100%)	Completed	
Owner	Volume ID	Started	Product codes	
Administrator	vol-0da50f1a828621c	Wed Jul 26 2023 20:20:22		

Problem 10

Snapshots (1/1) Info

Name	Snapshot ID	Volume size	Description	Storage tier
-	snap-0cbac0ba5e384a309	2 GiB	snapshot of main drive	Standard

Snapshot ID: snap-0cbac0ba5e384a309

Details		Permissions	Storage tier	Tags
Snapshot ID	Volume size	Progress	Snapshot status	
snap-0cbac0ba5e384a309	2 GiB	Available (100%)	Completed	
Owner	Volume ID	Started	Product codes	
Administrator	vol-0da50f1a828621c	Wed Jul 26 2023 20:20:22		

Actions

- Create volume from snapshot
- Create image from snapshot
- Copy snapshot
- Modify permissions
- Manage fast snapshot restore
- Archive snapshot
- Restore snapshot from archive
- Change restore period
- Delete snapshot
- Manage tags

Create volume | EC2 Management

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateVolumeFromSnapshot:snap-0cbac0ba5e384a309

Services Search [Alt+S] N. Virginia Corestack_Role/saptarshi.paul_mpasis @ 4230-1671-2871

Volume type [Info](#)
General Purpose SSD (gp2)

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

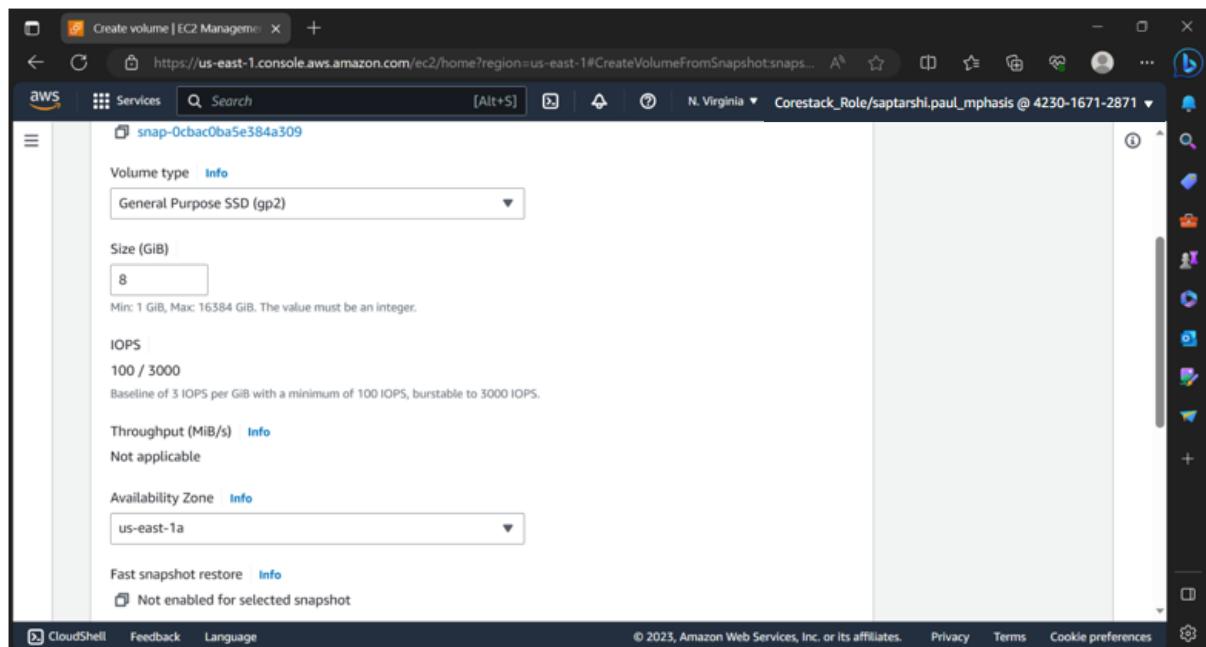
IOPS
100 / 3000
Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Throughput (MiB/s) [Info](#)
Not applicable

Availability Zone [Info](#)
us-east-1a

Fast snapshot restore [Info](#)
 Not enabled for selected snapshot

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Create volume | EC2 Management

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateVolumeFromSnapshot:snap-0cbac0ba5e384a309

Services Search [Alt+S] N. Virginia Corestack_Role/saptarshi.paul_mpasis @ 4230-1671-2871

Fast snapshot restore [Info](#)
 Not enabled for selected snapshot

Encryption [Info](#)
Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.
 Encrypt this volume

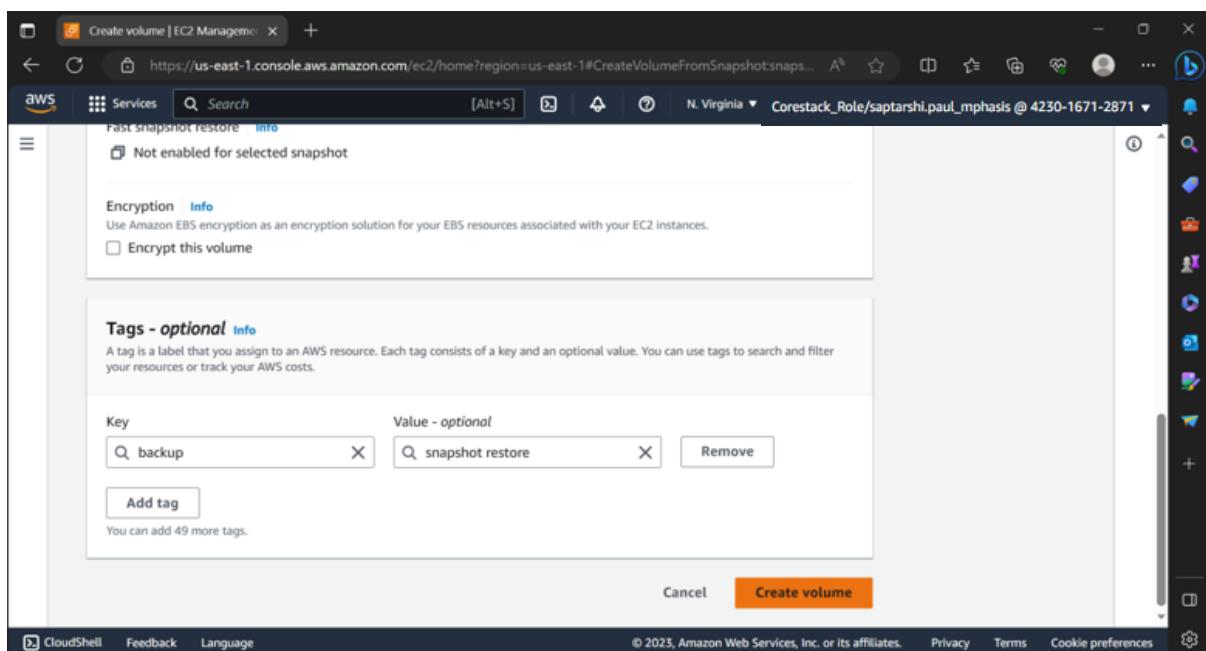
Tags - optional [Info](#)
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key Value - optional
Q backup X Q snapshot restore X Remove

Add tag
You can add 49 more tags.

Cancel Create volume

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Problem 11

S3 Management Console

https://s3.console.aws.amazon.com/s3/buckets?region=us-east-1

Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Account snapshot

Total storage: Pending

Object count: Pending

Average object size: Pending

You can enable advanced metrics in the "default-account-dashboard" configuration.

Buckets

No buckets

Create bucket

Find buckets by name

Name | AWS Region | Access | Creation date

CloudShell Feedback Language

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This screenshot shows the AWS S3 Management Console. The left sidebar has sections for Buckets, Storage Lens, and other AWS services. The main area displays an 'Account snapshot' with pending metrics. Below it is a 'Buckets' section with a search bar and a table header. A message indicates there are no buckets. At the bottom, there's a 'Create bucket' button and navigation links for CloudShell, Feedback, and Language.

S3 bucket

https://s3.console.aws.amazon.com/s3/bucket/create?region=eu-west-2

Create Bucket

Buckets are containers for data stored in S3. Learn more

General configuration

Bucket name: simplilearn-demo

Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming

AWS Region: EU (London) eu-west-2

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

Choose bucket

Object Ownership

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

CloudShell Feedback Language

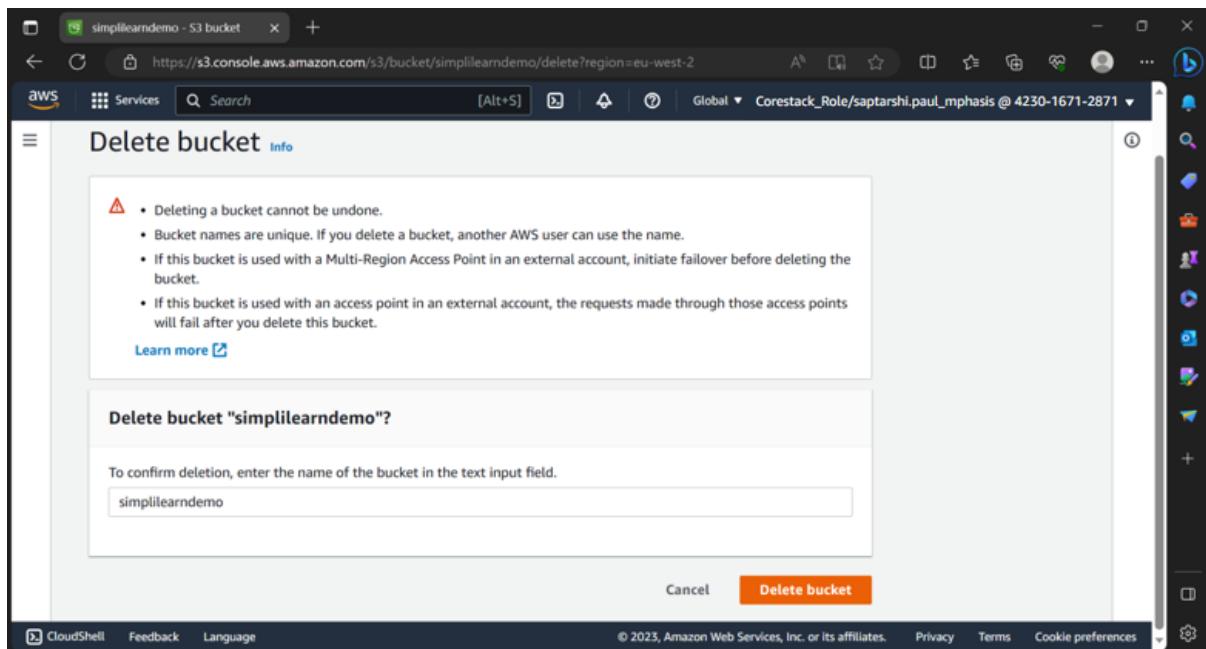
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This screenshot shows the 'Create Bucket' wizard. It's on the 'General configuration' step. The user has entered 'simplilearn-demo' for the bucket name and selected 'EU (London) eu-west-2' as the AWS Region. There's an optional step for copying settings from an existing bucket. Below this is the 'Object Ownership' section with a note about controlling object access. Navigation links for CloudShell, Feedback, and Language are at the bottom.

The screenshot shows the 'Object Ownership' section of the AWS S3 bucket creation wizard. It displays two options: 'ACLs disabled (recommended)' and 'ACLs enabled'. The 'ACLs disabled (recommended)' option is selected, indicating that all objects in the bucket are owned by the account and access is controlled by policies. The 'ACLs enabled' option allows other AWS accounts to own objects in the bucket, with access controlled by ACLs.

The screenshot shows the 'Successfully created bucket "simplilearndemo"' message in the AWS S3 Management Console. Below this, the 'Account snapshot' section provides an overview of storage usage. The 'Buckets (1)' section lists the newly created bucket 'simplilearndemo' with details such as Name, AWS Region (EU (London) eu-west-2), Access (Bucket and objects not public), and Creation date (Sep 06, 2023, 20:51:13 (UTC+05:30)).

Problem 12



Problem 13

S3 Management Console

Successfully created bucket "simplilearn-bucket-demo1"

To upload files and folders, or to configure additional bucket settings choose [View details](#).

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Total storage	Object count	Average object size	You can enable advanced metrics in the "default-account-dashboard" configuration.
.Pending	.Pending	.Pending	

Buckets (1) [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

Name	AWS Region	Access	Creation date
simplilearn-bucket-demo1	US East (Ohio) us-east-2	Bucket and objects not public	Sep 06, 2023, 20:51:14 (UTC+05:30)

The screenshot shows the AWS S3 Management Console interface for uploading files. At the top, the URL is https://s3.console.aws.amazon.com/s3/upload/simplilearn-bucket-demo1?region=us-east-2. The page title is "Upload". A central area has a message: "Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more". Below this is a large input field with the placeholder "Drag and drop files and folders you want to upload here, or choose Add files or Add folder.". Underneath is a table titled "Files and folders (1 Total, 17.0 B)". It contains one entry: "Index.html" (text/html, 17.0 B). There are "Remove", "Add files", and "Add folder" buttons above the table. A search bar labeled "Find by name" is also present. The "Destination" section below the table is currently empty. At the bottom of the main content area, there are links for "CloudShell", "Feedback", and "Language", along with copyright information: "© 2023, Amazon Web Services, Inc. or its affiliates." and links for "Privacy", "Terms", and "Cookie preferences".

The screenshot shows the AWS S3 Management Console after the upload has completed. The URL remains the same: https://s3.console.aws.amazon.com/s3/upload/simplilearn-bucket-demo1?region=us-east-2. The message at the top now says "Upload succeeded" with a checkmark icon and a link to "View details below.". Below this is a summary table with the heading "Upload: status". The table has three columns: "Destination" (s3://simplilearn-bucket-demo1), "Succeeded" (1 file, 31.3 KB (100.00%)), and "Failed" (0 files, 0 B (0%)). A note below the table states: "The information below will no longer be available after you navigate away from this page." At the bottom, there are tabs for "Files and folders" (which is selected) and "Configuration". The footer links and copyright information are identical to the previous screenshot.

Problem 14

IAM Management Console https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/home

aws Services Search [Alt+S] Global Corestack_Role/saptarshi.paul_mphasis @ 4230-1671-2871

Identity and Access Management (IAM)

Unable to load search

Dashboard

Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings

Access reports

Access analyzer

Add MFA for root user

Sign in as the root user (or contact your administrator) and register a multi-factor authentication (MFA) device for the root user to improve security for this account.

Attention: Extended Deadline for Updating Your Access Permissions - December 11, 2023

Our records indicate that you have missed the July 06, 2023 cutoff date to update the IAM actions for AWS Billing, Cost Management, and Account consoles. The following IAM actions have reached the end of standard support and are replaced with granular IAM actions: aws-portal:ViewBilling, aws-portal:ModifyBilling, aws-portal:ViewAccount, aws-portal:ModifyAccount, aws-portal:ViewUsage, purchase-orders:ViewPurchaseMethods, aws-portal:ModifyPaymentMethods, aws-portal:ViewPurchaseOrders, and purchase-orders:ModifyPurchaseOrders.

We are granting a final extension until December 11, 2023. Before the extended deadline, please [update your policies](#) or contact your access administrator to complete your action. You can also use the [Bulk Policy Migrator](#) to mass update policies from your Payer account (if using AWS Organizations) or use the [old to granular action mapping guide](#) to confirm the granular IAM actions which need to be added. For more information, please visit [AWS IAM documentation](#).

[View affected policies](#)

https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/users

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Create user | IAM | Global https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/users/create

aws Services Search [Alt+S] Global Corestack_Role/saptarshi.paul_mphasis @ 4230-1671-2871

Step 3 Review and create

Step 4 Retrieve password

User name: simplilearnuser

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.

Console password:

Autogenerated password

You can view the password after you create the user.

Custom password

Enter a custom password for the user.

Must be at least 8 characters long
Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # % ^ & * { } _ + - (hyphen) = [] { } !

Show password

Users must create a new password at next sign-in - Recommended

Users automatically get the [IAMUserChangePassword](#) policy to allow them to change their own password.

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Create user | IAM | Global

https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/users/create

IAM Services Search [Alt+S] Global Corestack_Role/saptarshi.paul_mpasis @ 4230-1671-2871

simpli user group created.

IAM > Users > Create user

Step 1: Specify user details

Step 2: Set permissions

Step 3: Review and create

Step 4: Retrieve password

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.

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Create user | IAM | Global

https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/users/create

IAM Services Search [Alt+S] Global Corestack_Role/saptarshi.paul_mpasis @ 4230-1671-2871

simpli user group created.

User groups (1/5)

Create group

Search

Group name	Users	Attached policies	Created
AdminGroup2	0	AdministratorAcc...	2022-0...
Administrator	0	AdministratorAcc...	2022-0...
Administrator_group	0	AmazonEC2FullA...	2021-0...
Group1	0	AmazonEC2FullA...	2022-0...
simpli	0	-	2023-0...

Set permissions boundary - optional

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The screenshot shows the AWS IAM User Details page for the user 'simplilearnuser'. The user was created on Sep 06, 2023, at 21:56 (UTC=05:30). It displays two sets of security credentials: 'Access key 1' (Enabled without MFA) and 'Access key 2' (Not enabled). The 'Security credentials' tab is selected, showing the 'Console sign-in' section which includes a 'Console sign-in link' (https://690339646315.signin.aws.amazon.com/console) and a 'Console password' (Updated 2 minutes ago). The 'Last console sign-in' is listed as 'Never'.

Problem 15

The screenshot shows the AWS IAM Roles page. There are 14 IAM roles listed, each with a checkbox, role name, trusted entities, and creation date. The roles include:

Role Name	Trusted Entities	Last Updated
AWSServiceRoleForAmazonElasticFileSystem	AWS Service: elasticfilesystem (Service-Linked Role)	182 days
AWSServiceRoleForAutoScaling	AWS Service: autoscaling (Service-Linked Role)	156 days
AWSServiceRoleForBackup	AWS Service: backup (Service-Linked Role)	10 hours
AWSServiceRoleForCloudTrail	AWS Service: cloudtrail (Service-Linked Role)	-
AWSServiceRoleForConfig	AWS Service: config (Service-Linked Role)	180 days
...

Create role | IAM | Global

https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles/create?step=select

aws Services Search [Alt+S]

Global Corestack_Role/saptarshi.paul_mpasis @ 4230-1671-2871

Step 3 Name, review, and create

AWS service Allow AWS services like EC2, Lambda, or others to perform actions in this account.

AWS account Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

Web identity Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

SAML 2.0 federation Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

Custom trust policy Create a custom trust policy to enable others to perform actions in this account.

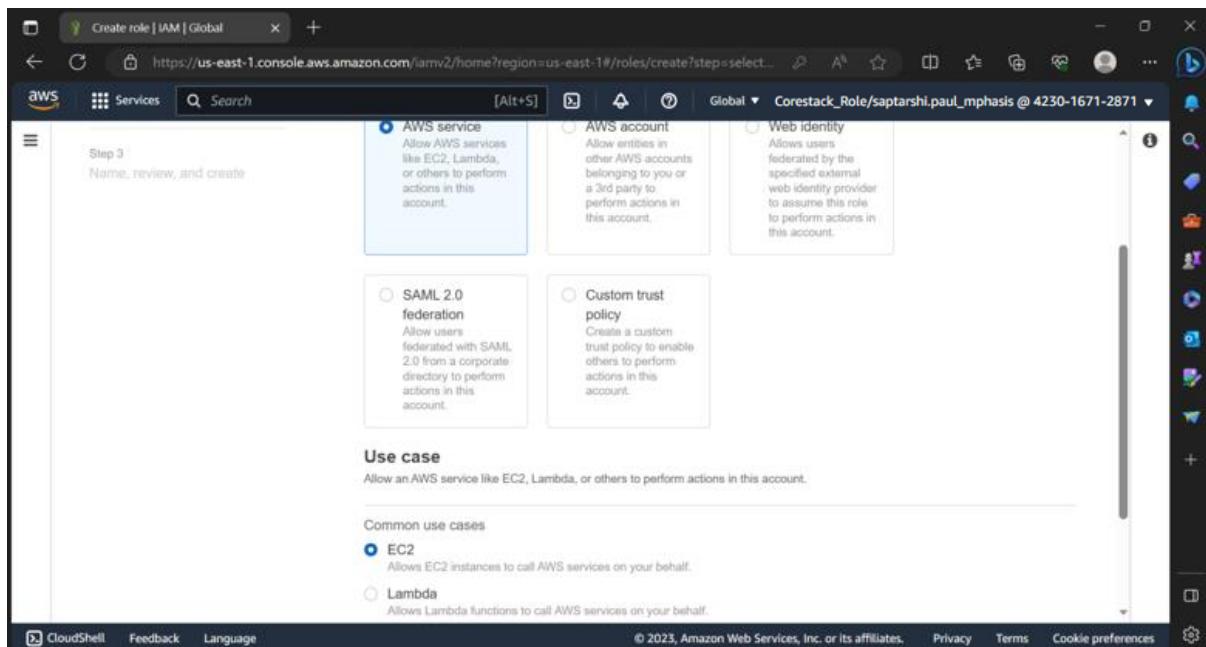
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Common use cases

EC2 Allows EC2 instances to call AWS services on your behalf.

Lambda Allows Lambda functions to call AWS services on your behalf.

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Create role | IAM | Global

https://us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles/create?commonUs...

aws Services Search [Alt+S]

Global Corestack_Role/saptarshi.paul_mpasis @ 4230-1671-2871

IAM > Roles > Create role

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and '+-=_,@-_-' characters.

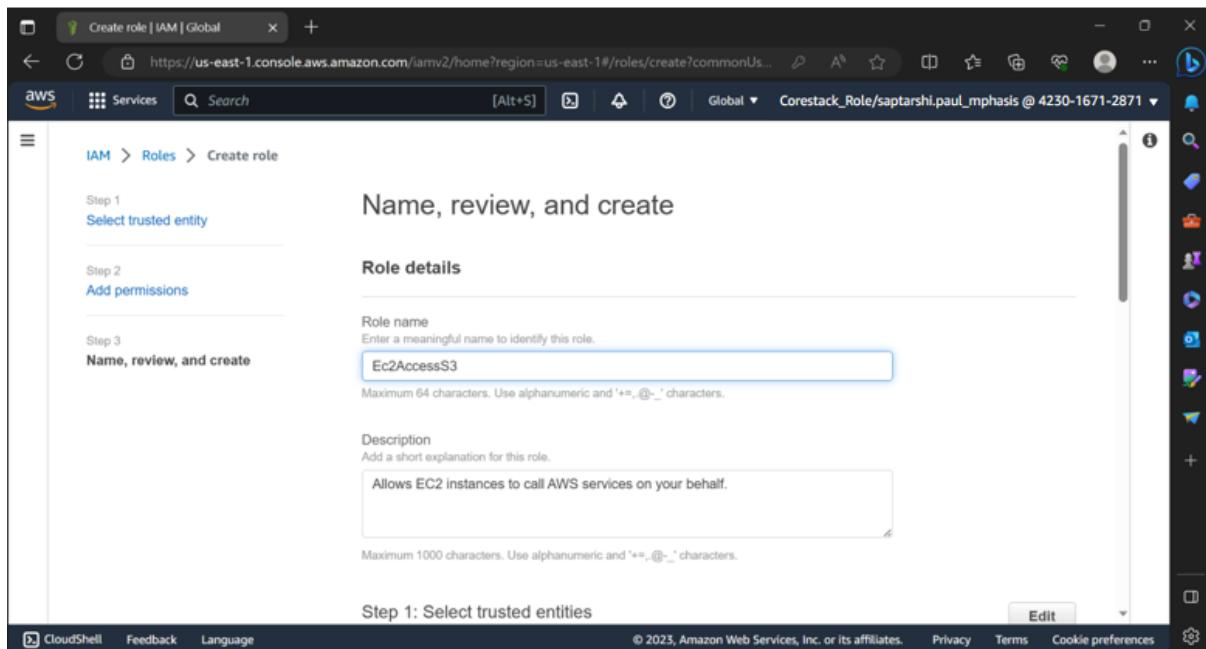
Description
Add a short explanation for this role.

Maximum 1000 characters. Use alphanumeric and '+-=_,@-_-' characters.

Step 1: Select trusted entities

Edit

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The screenshot shows the AWS IAM Roles page. A green header bar at the top indicates that a role named "Role Ec2AccessS3" has been created successfully. The main content area displays a table of roles, with one row highlighted. The table columns are "Role name", "Trusted entities", and "Last activity". The highlighted row shows "AWSServiceRoleForAmazonElasticFileSystem" with "AWS Service: elasticfilesystem (Service-Linked Role)" under Trusted entities and "182 da" under Last activity.

Role name	Trusted entities	Last activity
AWSServiceRoleForAmazonElasticFileSystem	AWS Service: elasticfilesystem (Service-Linked Role)	182 da
AWSServiceRoleForAutoScaling	AWS Service: autoscaling (Service-Linked Role)	156 da
AWSServiceRoleForBackup	AWS Service: backup (Service-Linked Role)	10 hours

Problem 16

The screenshot shows the "Create user group" page in the AWS IAM console. The left sidebar is identical to the previous screenshot, showing the "User groups" section selected. The main form is titled "Name the group" and contains a "User group name" field with the value "simplilearn". Below the field, a note states: "Maximum 128 characters. Use alphanumeric and '+-, @-' characters." The "Add users to the group - Optional (2) Info" section is visible, showing a search bar and a table with two users listed: "User name" and "Last activity".

The screenshot shows the AWS IAM User groups page. On the left, the navigation menu includes 'Identity and Access Management (IAM)', 'Dashboard', 'Access management' (with 'User groups' selected), 'Access reports', and 'Account settings'. The main content area displays a table of user groups:

Group name	Users	Permissions	Creation time
AdminGroup2	0	Loading	1 year ago
Administrator	0	Loading	1 year ago
Administrator_group	0	Loading	1 year ago
Group1	0	Loading	1 year ago
simpli	0	Loading	1 hour ago
simplilearn	0	Defined	Now

At the top right, there are 'Create group', 'Delete', and other action buttons.

The screenshot shows the 'Add users to simplilearn' page. The navigation path is IAM > User groups > simplilearn > Add users. The left sidebar is identical to the previous screenshot. The main content area shows a table of users:

User name	Groups	Last activity	Creation
corestack-6c49e	0	None	2 years ago
<input checked="" type="checkbox"/> simplilearnuser	1	None	1 hour ago

At the bottom right, there are 'Cancel' and 'Add users' buttons.

Problem 17

S3 Management Console

Successfully created bucket "bucketwithpolicy1"

To upload files and folders, or to configure additional bucket settings choose [View details](#).

Total storage	Object count	Average object size	You can enable advanced metrics in the "default-account-dashboard" configuration.
Pending	Pending	Pending	

Buckets (2) [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

Name	AWS Region	Access	Creation date
bucketwithpolicy1	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	Sep 06, 2023, 23:04:45 (UTC +05:30)
simplilearn-bucket-demo1	US East (Ohio) us-east-2	Bucket and objects not public	Sep 06, 2023, 21:34:45 (UTC +05:30)

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The screenshot shows the AWS S3 Management Console interface. At the top, a green banner indicates that a bucket has been successfully created. Below this, there's a summary table for the bucket. Under the 'Buckets' section, a table lists two buckets: 'bucketwithpolicy1' and 'simplilearn-bucket-demo1'. The bottom of the page includes standard AWS navigation links like CloudShell, Feedback, and Language, along with copyright and legal information.

bucketwithpolicy1 - S3 bucket

Policy examples [\[\]](#) Policy generator [\[\]](#)

Bucket ARN

arn:aws:s3:::bucketwithpolicy1

Policy

1 | Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

CloudShell Feedback Language

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This screenshot shows the policy editor for the 'bucketwithpolicy1' bucket. It features a sidebar with 'Policy examples' and 'Policy generator' buttons. The main area displays the Bucket ARN and a large text input field for the policy. A modal window titled 'Edit statement' is open on the right, containing a 'Select a statement' dropdown and a button to 'Add new statement'. The bottom of the page follows the standard AWS footer pattern with links for CloudShell, Feedback, Language, and various legal notices.

bucketwithpolicy1 - S3 bucket AWS Policy Generator https://awspolicygen.s3.amazonaws.com/policygen.html

VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy S3 Bucket Policy

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See a description of elements that you can use in statements.

Effect Allow Deny

Principal Allow Creation
Use a comma to separate multiple values.

AWS Service Amazon S3 All Services (*)
Use multiple statements to add permissions for more than one service.

Actions 1 Action(s) Selected All Actions (*)

Amazon Resource Name (ARN) arn:aws:s3:::bucketwithpoli
ARN should follow the format: arn:aws:s3:::\${BucketName}/\${KeyName}.
Use a comma to separate multiple values.

Add Conditions (Optional)
Add Statement

bucketwithpolicy1 - S3 bucket AWS Policy Generator https://awspolicygen.s3.amazonaws.com/policygen.html

You added the following statements. Click the button below to Generate a policy.

Principal(s)	Effect	Action	Resource	Conditions
• Allow Creation	Allow	• s3:CreateBucket	arn:aws:s3:::bucketwithpolicy1/Allow Creation	None

Step 3: Generate Policy

A policy is a document (written in the Access Policy Language) that acts as a container for one or more statements.

Generate Policy **Start Over**

This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided **as is** without warranty of any kind, whether express, implied, or statutory. This AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies.

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The screenshot shows the AWS Policy Generator interface. A modal window titled "Policy JSON Document" displays the following JSON policy:

```
{ "Id": "Policy1690393264521", "Version": "2012-10-17", "Statement": [ { "Sid": "Stmt1690393254516", "Action": [ "s3:CreateBucket" ], "Effect": "Allow", "Resource": "arn:aws:s3:::bucketwithpolicy1/Allow Creation", "Principal": { "AWS": [ "Allow Creation" ] } } ] }
```

The modal includes instructions: "Click below to edit. To save the policy, copy the text below to a text editor. Changes made below will not be reflected in the policy generator tool." A note at the bottom states: "This AWS Policy is not yet compliant with your use in this AWS Policy". A "Close" button is at the bottom right.

The screenshot shows the AWS S3 Bucket Properties page for "bucketwithpolicy1". The "Policy" tab is selected. The "Policy ARN" field contains "arn:aws:s3:::bucketwithpolicy1". The "Policy" section displays the same JSON policy as the previous screenshot. To the right, there is an "Edit statement" panel with a "Select a statement" dropdown, a note about selecting or adding statements, and a "+ Add new statement" button.

```
1+ {  
2+   "Id": "Policy1690393264521",  
3+   "Version": "2012-10-17",  
4+   "Statement": [  
5+     {  
6+       "Sid": "Stmt1690393254516",  
7+       "Action": [  
8+         "s3:CreateBucket"  
9+       ],  
10+      "Effect": "Allow",  
11+      "Resource": "arn:aws:s3:::bucketwithpolicy1/Allow Creation",  
12+      "Principal": {  
13+        "AWS": [  
14+          "Allow Creation"  
15+        ]  
16+      }  
17+    }  
18+  ]  
19+}
```

Problem 18

The screenshot shows the AWS S3 console interface for the bucket 'simplilearn-bucket-demo1'. The left sidebar has 'Amazon S3' selected. The main content area displays the 'Objects (1)' section. A single file, 'Phase3 quiz demo.docx', is listed. The file is a Microsoft Word document (docx) from Sep 06, 2023, at 23:40:25 (UTC +05:30), with a size of 31.3 KB and a storage class of Standard. Below the table are standard S3 actions: Copy S3 URI, Copy URL, Download, Open, Delete, Actions, and Create folder. An orange 'Upload' button is prominent. A search bar and pagination controls are also present.

The screenshot shows the AWS S3 console interface for the bucket 'simplilearn-bucket-demo1'. The left sidebar has 'Amazon S3' selected. The main content area displays the 'Objects (0)' section. A message states 'No objects' and 'You don't have any objects in this bucket.' An orange 'Upload' button is visible. The interface includes standard S3 actions: Copy S3 URI, Copy URL, Download, Open, Delete, Actions, and Create folder. A search bar and pagination controls are also present.