

<b>Name of Student:</b> Pushkar Sane			
<b>Roll Number:</b> 45	<b>CA Assignment No:</b> 1		
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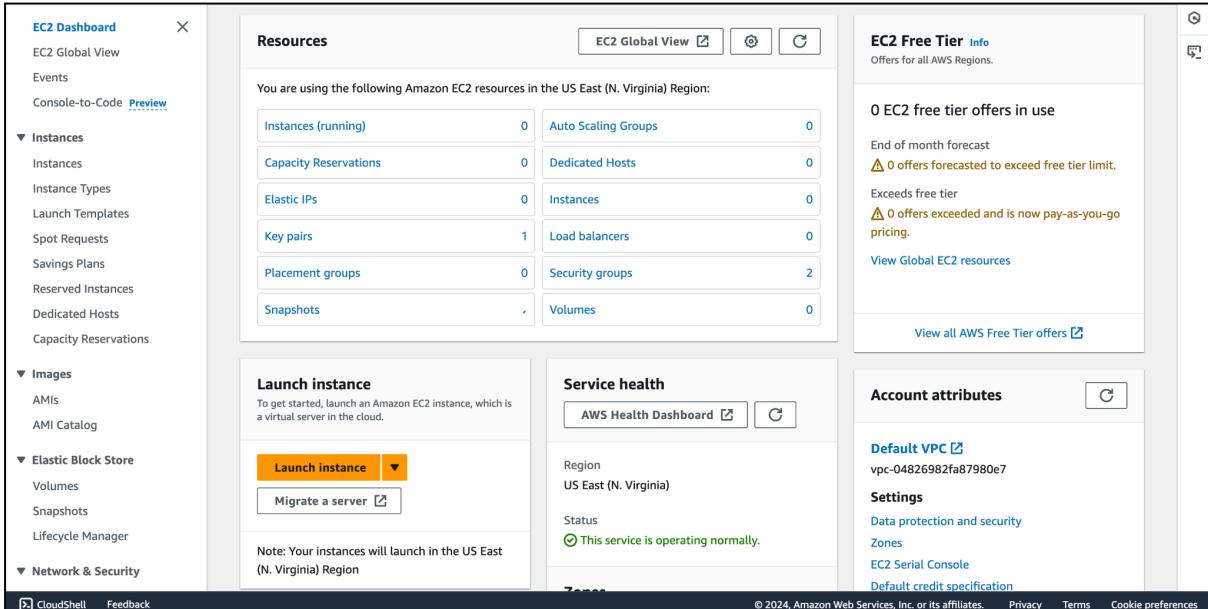
## CA Assignment No. 1

### 1. Amazon EC2

- a. Create an Amazon Web Services account
- b. Log into the AWS account and open the Amazon EC2 console. Click on 'Launch instance' button to create your own instance
- c. Select an 'Ubuntu server'. In the create instance wizard select t1.micro instance type. Proceed with the instance creation wizard with default settings and launch the instance.
- d. View the instance status in the console and wait till the status becomes running. When the status becomes running, note the public DNS of the instance from the console.
- e. After connecting to EC2 instance, install apache server using following Command:  

```
sudo apt-get install apache2
```

### Procedure:



The screenshot shows the AWS EC2 Dashboard. On the left, there's a sidebar with navigation links for EC2 Dashboard, Instances, Images, Elastic Block Store, and Network & Security. The main area has a header 'Resources' with a 'EC2 Global View' button. Below it, a message says 'You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:' followed by a table of resource counts:

Instances (running)	0	Auto Scaling Groups	0
Capacity Reservations	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0
Key pairs	1	Load balancers	0
Placement groups	0	Security groups	2
Snapshots	0	Volumes	0

On the right, there's a 'EC2 Free Tier' section with a message 'Offers for all AWS Regions.' and a summary: '0 EC2 free tier offers in use'. It also includes a 'View Global EC2 resources' link and a 'View all AWS Free Tier offers' link. At the bottom, there's a 'Service health' section with a 'AWS Health Dashboard' button, a 'Region' set to 'US East (N. Virginia)', a 'Status' message 'This service is operating normally.', and a 'Zones' section. The footer includes links for CloudShell, Feedback, and various AWS terms like Default VPC, Settings, Data protection and security, Zones, EC2 Serial Console, and Default credit specification.

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, Console-to-Code, Instances (selected), 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, and Network & Security. The main content area has tabs for Instances and Info. It shows a search bar, filters for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. Below that, it says "No instances" and "You do not have any instances in this region". There's a "Launch instances" button at the bottom. At the very bottom, there's a footer with CloudShell, Feedback, and links to AWS terms and conditions.

The screenshot shows the "Launch an instance" wizard. The first step, "Name and tags", has a text input for "Name" with "e.g. My Web Server" placeholder. The second step, "Application and OS Images (Amazon Machine Image)", shows a search bar and a "Quick Start" tab selected, displaying icons for Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE. To the right, a "Summary" panel shows the configuration: 1 instance, Canonical, Ubuntu, 24.04 AMI, t2.micro instance type, New security group, and 1 volume(s) - 8 GiB storage. A callout box highlights the "Free tier" offer: "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, and 1000 AWS Lambda requests per month." At the bottom, there are "Cancel", "Launch instance" (highlighted in orange), and "Preview code" buttons. The footer is identical to the previous screenshot.

**Instance type** [Info](#) | [Get advice](#)

Instance type  
t1.micro  
Family: t1 1 vCPU 0.612 GiB Memory Current generation: false  
On-Demand Linux base pricing: 0.02 USD per Hour  
On-Demand SUSE base pricing: 0.02 USD per Hour  
On-Demand RHEL base pricing: 0.03 USD per Hour  
On-Demand Windows base pricing: 0.02 USD per Hour

**Additional costs apply for AMIs with pre-installed software**

**All generations**

**Compare instance types**

**Summary**

Number of instances [Info](#)  
1

Software Image (AMI)  
Canonical, Ubuntu, 24.04, amd64...[read more](#)  
ami-0866a3c8686eaeaba

Virtual server type (instance type)  
t1.micro

Firewall (security group)  
New security group

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

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month.

**Launch instance**

**EC2** > ... > Launch an instance

**Launching instance**

**Launch initiation**

79%

Please wait while we launch your instance.  
Do not close your browser while this is loading.

**Launch instance**

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with various EC2-related options like Dashboard, Global View, Events, and Instance Types. The main area is titled "Instances (1/1) Info" and shows a single instance named "DSCL1" with the ID "i-01da7feb1ce5f44b". The instance is listed as "Running" with the status code "2/2 checks passed". It's assigned to the "us-east-1b" availability zone. There are buttons for "Connect", "Actions", and "Launch instances". Below the table, the instance ID "i-01da7feb1ce5f44b (DSCL1)" is highlighted.

This screenshot shows the "Instance summary for i-01da7feb1ce5f44b (DSCL1)" page. It provides detailed information about the instance, including its ID, state, type, and network details. Key details include:

- Instance ID:** i-01da7feb1ce5f44b (DSCL1)
- Public IPv4 address:** 54.162.86.163 | [open address](#)
- Private IPv4 address:** 172.31.37.90
- Public IPv4 DNS:** ec2-54-162-86-163.compute-1.amazonaws.com | [open address](#)
- Instance state:** Running
- Private IP DNS name (IPv4 only):** ip-172-31-37-90.ec2.internal
- Instance type:** t1.micro
- VPC ID:** vpc-04826982fa87980e7
- Elastic IP addresses:** -
- AWS Compute Optimizer finding:** Opt-in to AWS Compute Optimizer for recommendation actions. | [Learn more](#)
- Auto Scaling Group name:** -
- Subnet ID:** subnet-0d07d06ab6bbabe8a
- Instance ARN:** arn:aws:ec2:us-east-1:058264382254:instance/i-01da7feb1ce5f44b

At the bottom, there are tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. The URL at the bottom is https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-01da7feb1ce5f44b.

Connect to instance [Info](#)

Connect to your instance i-01da7febf1ce5f44b (DSCC1) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

**⚠ Port 22 (SSH) is open to all IPv4 addresses**  
Port 22 (SSH) is currently open to all IPv4 addresses, indicated by **0.0.0.0/0** in the inbound rule in [your security group](#). For increased security, consider restricting access to only the EC2 Instance Connect service IP addresses for your Region: 18.206.107.24/29. [Learn more](#).

Instance ID  
 i-01da7febf1ce5f44b (DSCC1)

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  
 54.162.86.163

IPv6 address

Username  
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.  
 ubuntu

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```
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1016-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Thu Oct 10 18:31:39 UTC 2024

System load: 0.08      Processes:          105
Usage of /: 23.0% of 6.71GB   Users logged in:    0
Memory usage: 34%           IPv4 address for enX0: 172.31.37.90
Swap usage:  0%           IPv6 address for enX0: fe80::5e0:9ff:fe17:3137%enX0

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Thu Oct 10 18:28:39 2024 from 18.206.107.27
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-37-90:~$ sudo apt-get install apache2
```

i-01da7febf1ce5f44b (DSCC1)  
PublicIPs: 54.162.86.163 PrivateIPs: 172.31.37.90

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Enabling module env.  
Enabling module mime.  
Enabling module negotiation.  
Enabling module setenvif.  
Enabling module filter.  
Enabling module deflate.  
Enabling module status.  
Enabling module reqtimeout.  
Enabling conf charset.  
Enabling conf localized-error-pages.  
Enabling conf other-vhosts-access-log.  
Enabling conf security.  
Enabling conf serve-cgi-bin.  
Enabling site 000-default.  
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /usr/lib/systemd/system/apache2.service.  
Processing triggers for ufw (0.36.2-6) ...  
Processing triggers for man-db (2.12.0-4build2) ...  
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...  
Scanning processes...  
Scanning linux images...  
Running kernel seems to be up-to-date.  
No services need to be restarted.  
No containers need to be restarted.  
No user sessions are running outdated binaries.  
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
ubuntu@ip-172-31-37-90:~\$

i-01da7febf1ce5f44b (DSCC1)

PublicIPs: 54.162.86.163 PrivateIPs: 172.31.37.90

[CloudShell](#)[Feedback](#)

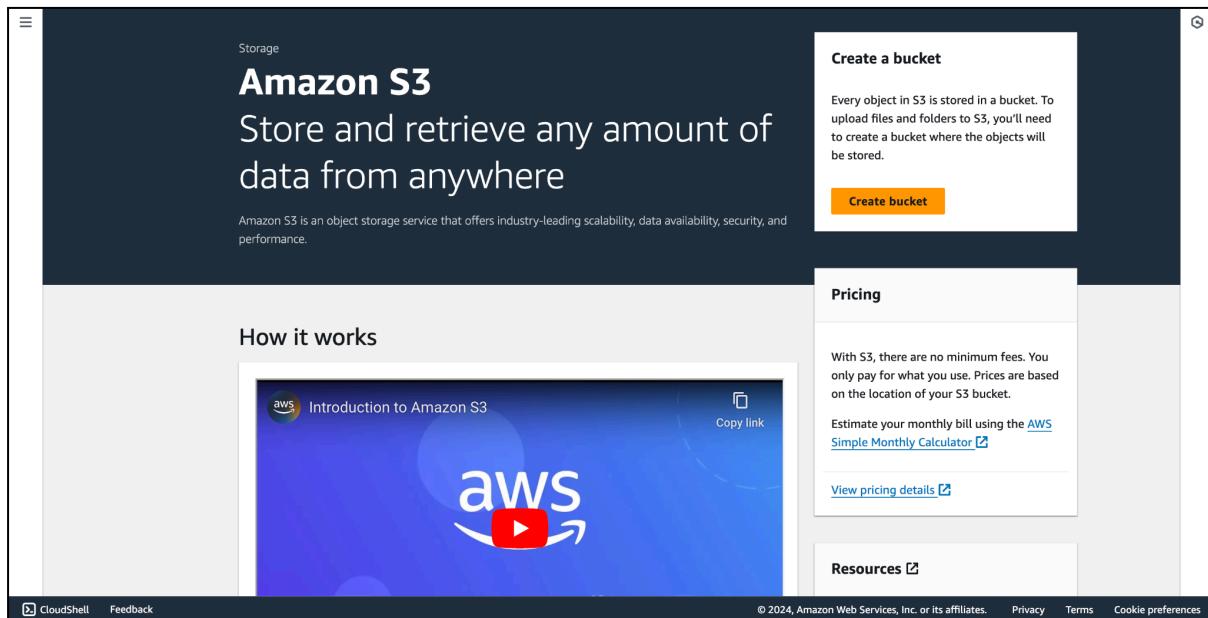
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## 2. Amazon S3

- a. Open Amazon S3 console, create a new bucket and upload any two files from PC to bucket (disable Versioning)
- b. Create another bucket with unique name and create folder in this bucket
- c. Upload similar files (mentioned in step 1) to this folder
- d. Copy one file from first bucket to new bucket (step 2)
- e. Show all the versions of files in new folder
- f. Delete old version of the file and check if it is visible again
- g. Empty the first folder then delete it.

### Procedure:



**Create bucket** Info

Buckets are containers for data stored in S3.

**General configuration**

AWS Region  
US East (N. Virginia) us-east-1

Bucket type Info

General purpose  
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

Directory  
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name Info

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - *optional*  
Only the bucket settings in the following configuration are copied.

Format: s3://bucket/prefix

**Object Ownership** Info

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.

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Block public access to buckets and objects granted through *any* access control lists (ACLs)  
S3 will ignore all ACLs that grant public access to buckets and objects.

Block public access to buckets and objects granted through *new* public bucket or access point policies  
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

Block public and cross-account access to buckets and objects through *any* public bucket or access point policies  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

**Bucket Versioning**  
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning  
 Disable  
 Enable

**Tags - optional (0)**  
You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

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**Default encryption** [Info](#)  
Server-side encryption is automatically applied to new objects stored in this bucket.

**Encryption type** [Info](#)

- Server-side encryption with Amazon S3 managed keys (SSE-S3)
- Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)  
Secure your objects with two separate layers of encryption. For details on pricing, see DSSE-KMS pricing on the Storage tab of the [Amazon S3 pricing page](#).

**Bucket Key**  
Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

- Disable
- Enable

**Advanced settings**

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#) [Create bucket](#)

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**Successfully created bucket "dscc2"**  
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

[View details](#) [X](#)

[Amazon S3](#) > [Buckets](#)

**Account snapshot - updated every 24 hours** [All AWS Regions](#) [View Storage Lens dashboard](#)

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

[General purpose buckets](#) [Directory buckets](#)

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">dscc2</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	October 11, 2024, 00:13:00 (UTC+05:30)

[Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

[Find buckets by name](#) [View details](#) [X](#)

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The screenshot shows the AWS S3 'Upload' interface. At the top, the path is shown as Amazon S3 > Buckets > dsc2 > Upload. The main section is titled 'Upload' with a 'Info' link. A note says: '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'.

A dashed blue box indicates where files can be 'Drag and drop files and folders you want to upload here, or choose Add files or Add folder.'

The 'Files and folders' table shows two items:

Name	Folder	Type
DSCC Practical 4.pdf	-	application/pdf
DSCC Practical 5.pdf	-	application/pdf

The 'Destination' section shows the destination as 's3://dsc2'. Below it, 'Destination details' mention 'Bucket settings that impact new objects stored in the specified destination.'

At the bottom, there are links for CloudShell, Feedback, and navigation icons.

The screenshot shows the 'Upload: status' interface. A green header bar says 'Upload succeeded' with a 'View details below.' link. An orange 'Close' button is in the top right.

A message box says: 'The information below will no longer be available after you navigate away from this page.'

The 'Summary' section shows the destination 's3://dsc2' and the results:

Succeeded	Failed
2 files, 202.2 KB (100.00%)	0 files, 0 B (0%)

The 'Files and folders' tab is selected, showing the same two files as in the upload interface:

Name	Folder	Type	Size	Status	Error
DSCC Practic...	-	application/pdf	123.8 KB	Succeeded	-
DSCC Practic...	-	application/pdf	78.4 KB	Succeeded	-

At the bottom, there are links for CloudShell, Feedback, and navigation icons.

The screenshot shows the AWS S3 Buckets page. At the top, a green banner indicates "Successfully created bucket 'dscc2a'". Below this, there's an "Account snapshot - updated every 24 hours" section with a "View Storage Lens dashboard" button. The main area shows two buckets: "General purpose buckets" (2) and "Directory buckets". The "General purpose buckets" tab is selected. A table lists the buckets:

Name	AWS Region	IAM Access Analyzer	Creation date
dscc2	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	October 11, 2024, 00:13:00 (UTC+05:30)
dscc2a	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	October 11, 2024, 00:20:30 (UTC+05:30)

At the bottom, there are buttons for "Create bucket", "Copy ARN", "Empty", and "Delete". The footer includes links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

The screenshot shows the "Create folder" configuration page for the "dscc2a" bucket. The path is "Amazon S3 > Buckets > dscc2a > Create folder".

**Create folder** Info

Use folders to group objects in buckets. When you create a folder, S3 creates an object using the name that you specify followed by a slash (/). This object then appears as folder on the console. [Learn more](#)

**Your bucket policy might block folder creation**  
If your bucket policy prevents uploading objects without specific tags, metadata, or access control list (ACL) grantees, you will not be able to create a folder using this configuration. Instead, you can use the [upload configuration](#) to upload an empty folder and specify the appropriate settings.

**Folder**

Folder name: DSCC\_CA /

Folder names can't contain "/". [See rules for naming](#)

**Server-side encryption** Info  
Server-side encryption protects data at rest.

**Note:** The following encryption settings apply only to the folder object and not to sub-folder objects.

Server-side encryption:  Don't specify an encryption key

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Amazon S3 > Buckets > dscc2a > DSCC\_CA/

**DSCC\_CA/**

**Objects (2) Info** C Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Name	Type	Last modified	Size	Storage class
<a href="#">DSCC Practical 4.pdf</a>	pdf	October 11, 2024, 00:24:05 (UTC+05:30)	123.8 KB	Standard
<a href="#">DSCC Practical 5.pdf</a>	pdf	October 11, 2024, 00:24:07 (UTC+05:30)	78.4 KB	Standard

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Amazon S3 > Buckets > dscc2

**dscc2 Info**

**Objects (2) Info** C Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Name	Type	Last modified	Size	Storage class
<a href="#">DSCC Practical 4.pdf</a>	pdf	October 11, 2024, 00:18:00 (UTC+05:30)		
<a href="#">DSCC Practical 5.pdf</a>	pdf	October 11, 2024, 00:18:01 (UTC+05:30)		

**Actions ▾**

- Copy
- Move
- Initiate restore
- Query with S3 Select
- Edit actions
- Rename object
- Edit storage class
- Edit server-side encryption
- Edit metadata
- Edit tags
- Make public using ACL

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**Copy Info**

This action creates a copy of the object with updated settings and a new last-modified date.

**⚠️** This action applies to all objects within the specified folders (prefixes). Objects added to these folders while the action is in progress might be affected.

- Copied objects will not retain the Object Lock settings from the original objects.
- Objects encrypted with AWS KMS keys can't be copied to a different Region using the S3 console. To copy objects encrypted with AWS KMS keys to a different Region, use the AWS CLI, AWS SDKs, or the Amazon S3 REST API.
- Objects encrypted with customer-provided encryption keys (SSE-C) will fail to be copied using the S3 console. To copy objects encrypted with SSE-C, use the AWS CLI, AWS SDKs, or the Amazon S3 REST API.
- If the bucket you are copying objects from uses the bucket owner enforced setting for S3 Object Ownership, object ACLs will not be copied to the specified destination.
- If you want to copy objects to a bucket that uses the bucket owner enforced setting for S3 Object Ownership, you'll need to ensure that the source bucket also uses the bucket owner enforced setting or object ACL grants to other AWS accounts and groups have been removed.

[Learn more Info](#)

**Destination**

Destination type

General purpose bucket

Directory bucket

Access Point

Destination

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Ownership, you'll need to ensure that the source bucket also uses the bucket owner enforced setting or object ACL grants to other AWS accounts and groups have been removed.

[Learn more Info](#)

**Destination**

S3 Buckets

**Buckets (1/2)**

Name	AWS Region
<input type="radio"/> dsc2	US East (N. Virginia) us-east-1
<input checked="" type="radio"/> dsc2a	US East (N. Virginia) us-east-1

Cancel **Choose destination**

The following bucket settings impact new objects stored in the specified destination.

**Bucket Versioning**  
Versioned objects are variants of an object can be stored in the bucket to easily recover from unintended user actions and application failures. [Learn more Info](#)

**Default encryption type**  
Object settings for default encryption are automatically applied to any specified object that is unencrypted.

**Object Lock**  
With enabled, objects in this bucket might be prevented from being deleted or overwritten for a fixed amount of time or indefinitely. [Learn more Info](#)

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Ownership, you'll need to ensure that the source bucket also uses the bucket owner enforced setting or object ACL grants to other AWS accounts and groups have been removed.

[Learn more](#)

### Destination

S3 Buckets > [dscc2a](#) > [DSCC\\_CA/](#)

#### Objects (2)

Name	Type	Last modified	Size	Storage class
<a href="#">DSCC Practical 4.pdf</a>	pdf	October 11, 2024, 00:24:05 (UTC+05:30)	123.8 KB	Standard
<a href="#">DSCC Practical 5.pdf</a>	pdf	October 11, 2024, 00:24:07 (UTC+05:30)	78.4 KB	Standard

Cancel [Choose destination](#)

Bucket settings impact new objects stored in the specified destination.

**Bucket Versioning**  
When enabled, multiple variants of an object can be stored in the bucket to easily recover from unintended user actions and application failures. [Learn more](#)

**Default encryption type**  
Bucket settings for default encryption are automatically applied to any specified object that is unencrypted.

**Object Lock**  
When enabled, objects in this bucket might be prevented from being deleted or overwritten for a fixed amount of time or indefinitely. [Learn more](#)

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recover from unintended user actions and application failures. [Learn more](#)

**Disabled**

**We recommend that you enable Bucket Versioning to help protect against unintentionally overwriting or deleting objects. [Learn more](#)**

[Enable Bucket Versioning](#)

### Specified objects

[Find objects by name](#)

Name	Type	Last modified	Size
<a href="#">DSCC Practical 4.pdf</a>	pdf	October 11, 2024, 00:18:00 (UTC+05:30)	123.8 KB

#### Checksums Info

Checksum functions are used for additional data integrity verification of new objects. [Learn more](#)

**Additional checksums**

**Copy existing checksum functions**  
Apply the same checksum function to the destination object. The checksum value may change compared to when it was added. [Learn more](#)

**Replace with a new checksum function**  
Specify a new checksum function for additional data integrity validation which will overwrite any existing data integrity settings.

Cancel [Copy](#)

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Successfully copied objects  
View details below. To view successfully copied objects, go to the [specified destination](#).

### Copy: status

The information below will no longer be available after you navigate away from this page.

#### Summary

Source	Successfully copied	Failed to copy
s3://dscc2	1 object, 123.8 KB	0 objects

[Failed to copy](#) | Configuration

#### Failed to copy (0)

Name	Folder	Type	Last modified	Size	Error
No objects failed to copy.					

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Successfully edited Bucket Versioning  
To transition, archive, or delete older object versions, [configure lifecycle rules](#) for this bucket.

Amazon S3 > Buckets > dscc2a

### dscc2a [Info](#)

Objects Properties Permissions Metrics Management Access Points

#### Bucket overview

AWS Region US East (N. Virginia) us-east-1	Amazon Resource Name (ARN) <a href="#">arn:aws:s3:::dscc2a</a>	Creation date October 11, 2024, 00:20:30 (UTC+05:30)
---	---	---

#### Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

**Bucket Versioning**

**Enabled**

Multi-factor authentication (MFA) delete  
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

**Disabled**

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The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3 > Buckets > dscc2a > DSCC\_CA/'. The main content area displays the 'DSCC\_CA/' folder. A table lists three objects:

Name	Type	Version ID	Last modified	Size	Storage class
<a href="#">DSCC Practical 4.pdf</a>	pdf	5Xs3qCgZFYrO1bjtCRDgTrYOEyd9cRJ	October 11, 2024, 00:33:22 (UTC+05:30)	123.8 KB	Standard
<a href="#">DSCC Practical 4.pdf</a>	pdf	null	October 11, 2024, 00:28:11 (UTC+05:30)	123.8 KB	Standard
<a href="#">DSCC Practical 5.pdf</a>	pdf	null	October 11, 2024, 00:24:07 (UTC+05:30)	78.4 KB	Standard

Below the table, there are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar and a 'Show versions' button are also present.

This screenshot is identical to the first one, showing the 'DSCC\_CA' bucket in the Amazon S3 console. However, the second row in the object list has a blue selection bar underneath it, indicating that the file 'DSCC Practical 4.pdf' is currently selected.

Amazon S3 > Buckets > dsc2a > DSCC\_CA/ > Delete objects

### Delete objects Info

**Specified objects**

Name	Version ID	Type	Last modified	Size
DSCC Practical 4.pdf	null	pdf	October 11, 2024, 00:28:11 (UTC+05:30)	123.8 KB

**Permanently delete objects?**

To confirm deletion, type *permanently delete* in the text input field.

Cancel **Delete objects**

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**Successfully deleted objects**  
View details below.

### Delete objects: status

The information below will no longer be available after you navigate away from this page.

**Summary**

Source	Successfully deleted	Failed to delete
s3://dsc2a/DSCC_CA/	1 object, 123.8 KB	0 objects

**Failed to delete** Configuration

**Failed to delete (0)**

Name	Folder	Version ID	Type	Last modified	Size	Error
No objects failed to delete.						

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The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3 > Buckets > dscc2a > DSCC\_CA/'. The main content area displays the 'DSCC\_CA/' folder with two objects listed:

Name	Type	Version ID	Last modified	Size	Storage class
DSCC Practical 4.pdf	pdf	5Xs3qCgZFYrOl1bjtcRDgTr YOEYd9cRJ	October 11, 2024, 00:33:22 (UTC+05:30)	123.8 KB	Standard
DSCC Practical 5.pdf	pdf	null	October 11, 2024, 00:24:07 (UTC+05:30)	78.4 KB	Standard

Below the table, there are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar and a 'Show versions' link are also present.

The screenshot shows the Amazon S3 console interface. The top navigation bar includes 'Amazon S3 > Buckets > dscc2'. The main content area displays the 'dscc2' bucket with two objects listed:

Name	Type	Last modified	Size	Storage class
DSCC Practical 4.pdf	pdf	October 11, 2024, 00:18:00 (UTC+05:30)	123.8 KB	Standard
DSCC Practical 5.pdf	pdf	October 11, 2024, 00:18:01 (UTC+05:30)	78.4 KB	Standard

Below the table, there are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar and a 'Show versions' link are also present. The objects in this bucket appear to be identical to those in the 'dscc2a' bucket shown above.

**Delete objects** Info

**Specified objects**

Name	Type	Last modified	Size
DSCC Practical 4.pdf	pdf	October 11, 2024, 00:18:00 (UTC+05:30)	123.8 KB
DSCC Practical 5.pdf	pdf	October 11, 2024, 00:18:01 (UTC+05:30)	78.4 KB

**Permanently delete objects?**

To confirm deletion, type *permanently delete* in the text input field.

permanently delete

Cancel **Delete objects**

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**Successfully deleted objects**  
View details below.

**Delete objects: status** Close

The information below will no longer be available after you navigate away from this page.

**Summary**

Source	Successfully deleted	Failed to delete
s3://dscc2	2 objects, 202.2 KB	0 objects

**Failed to delete** Configuration

**Failed to delete (0)**

Name	Folder	Type	Last modified	Size	Error
No objects failed to delete.					

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The screenshot shows the AWS S3 Buckets page. At the top, there is an account snapshot message: "Account snapshot - updated every 24 hours" and a link to "View Storage Lens dashboard". Below this, there are tabs for "General purpose buckets" and "Directory buckets", with "General purpose buckets" selected. A search bar allows you to "Find buckets by name". There is a table listing the buckets:

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">dscc2</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	October 11, 2024, 00:13:00 (UTC+05:30)
<a href="#">dscc2a</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	October 11, 2024, 00:20:30 (UTC+05:30)

At the bottom right of the table are buttons for "Copy ARN", "Empty", "Delete", and "Create bucket". The footer includes links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences.

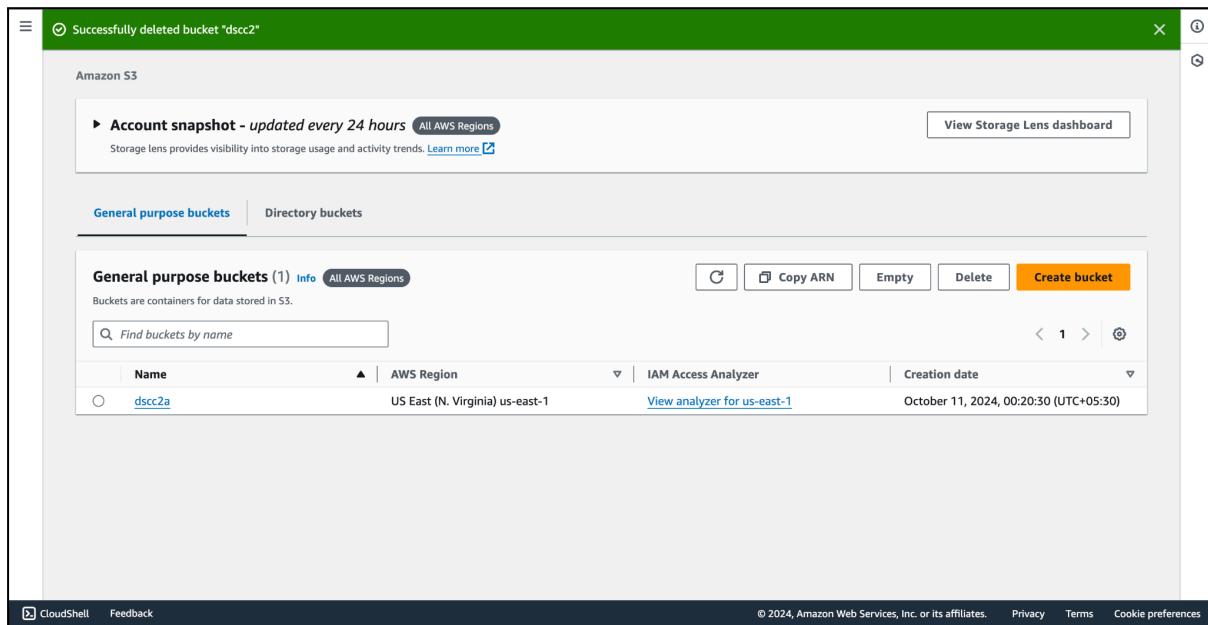
The screenshot shows the "Delete bucket" confirmation dialog. The title is "Delete bucket" with a "Info" link. Below it is a warning box containing the following text:

**⚠** • Deleting a bucket cannot be undone.  
• Bucket names are unique. If you delete a bucket, another AWS user can use the name.  
• If this bucket is used with a Multi-Region Access Point in an external account, initiate failover before deleting the bucket.  
• If this bucket is used with an access point in an external account, the requests made through those access points will fail after you delete this bucket.

[Learn more](#)

The main area is titled "Delete bucket 'dscc2'?". It contains a text input field with the placeholder "To confirm deletion, enter the name of the bucket in the text input field." and the value "dscc2". At the bottom are "Cancel" and "Delete bucket" buttons.

The footer includes links for CloudShell, Feedback, Privacy, Terms, and Cookie preferences.



### Conclusion:

In conclusion, the assignment on AWS account creation and the management of EC2 and S3 instances provided hands-on experience with fundamental AWS services. Creating an AWS account laid the groundwork for accessing and utilizing AWS resources, while setting up EC2 instances demonstrated the ability to deploy and manage virtual servers in the cloud. The exploration of S3 buckets involved practical exercises in object storage, including bucket creation, file uploads, and version management. This exercise underscored the flexibility and scalability of AWS services, highlighting their essential role in modern cloud computing and data management. Through this assignment, we gained valuable skills in cloud infrastructure management and data storage, which are crucial for leveraging AWS's robust capabilities.