

AWS Projects

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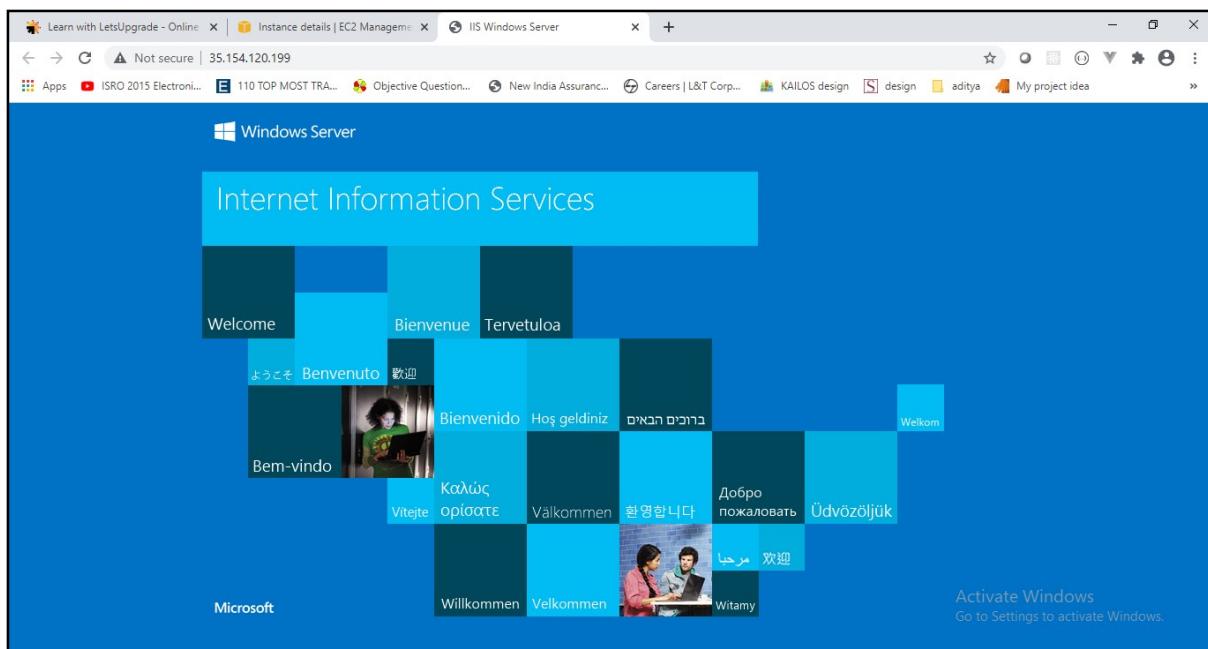
Project 1 - Windows IIS Server:

The screenshot shows the AWS EC2 Instances page. The left sidebar includes options like EC2 Dashboard, Events, Tags, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main content area displays a table titled 'Instances (1/1)'. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm Status, and Availability zone. One row is selected, showing 'Windows IIS' with Instance ID i-0544afa0451ce0a11, State: Running, Type: t2.micro, Status check: 2/2 checks ..., Alarm Status: No alarms, and Availability zone: ap-south-1a. Below the table, a detailed view for 'Instance: i-0544afa0451ce0a11' is shown with tabs for Details, Security, Networking, Storage, Status Checks, Monitoring, and Tags. A message to 'Activate Windows' is present.

The screenshot shows the AWS EC2 Instance summary page for the instance i-0544afa0451ce0a11. The left sidebar is identical to the previous screenshot. The main content area displays a table titled 'Instance summary for i-0544afa0451ce0a11 (Windows IIS)'. The table contains the following data:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0544afa0451ce0a11 (Windows IIS)	35.154.120.199 open address	172.31.35.35
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	ec2-35-154-120-199.ap-south-1.compute.amazonaws.com open address	ip-172-31-35-35.ap-south-1.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.micro	-	vpc-1dd23676
IAM Role	Subnet ID	
-	subnet-a10904c9	

A message to 'Activate Windows' is also present at the bottom.



Project 2 – Ubuntu Nginx Server:

A screenshot of the AWS EC2 Instances page. The left sidebar shows navigation options like "New EC2 Experience", "EC2 Dashboard", "Events", "Tags", "Limits", "Instances", "Images", and "Feedback". Under "Instances", there are sub-options for "Instances", "Launch Templates", "Spot Requests", "Savings Plans", "Reserved Instances", "Dedicated Hosts", "Capacity Reservations", and "Images". The main content area displays a table titled "Instances (1) Info". The table has columns for "Name", "Instance ID", "Instance state", "Instance type", "Status check", "Alarm Status", and "Availability zone". A single row is shown for an instance named "Ubuntu Nginx" with Instance ID "i-031b9e0bedc9a4b58", which is "Running" on an "t2.micro" instance type, with a green status check icon and no alarms, located in the "ap-south-1a" availability zone. There are "Actions" and "Launch Instances" buttons at the top of the table. At the bottom, there are links to "Activate Windows" and "Go to Settings to activate Windows". The footer includes copyright information from 2008-2020 and links to "Privacy Policy" and "Terms of Use".

The screenshot shows the AWS EC2 Instances page. The left sidebar includes options like New EC2 Experience, EC2 Dashboard, Events, Tags, Instances (with sub-options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations), Images, AMIs, and Feedback. The main content area displays the instance summary for 'i-031b9e0bedc9a4b58 (Ubuntu Nginx)'. The summary table contains the following data:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-031b9e0bedc9a4b58 (Ubuntu Nginx)	65.0.31.84 open address	172.31.42.236
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	ec2-65-0-31-84.ap-south-1.compute.amazonaws.com open address	ip-172-31-42-236.ap-south-1.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.micro	-	vpc-1dd23676
IAM Role	Subnet ID	
-	subnet-a10904c9	

AWS Compute Optimizer and Activate Windows notifications are present at the bottom.

The screenshot shows a web browser window displaying the 'Welcome to nginx!' page. The URL in the address bar is '65.0.31.84'. The page content includes:

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

Project 3 - Elastic Block Storage (EBS):

The screenshot shows the AWS EBS Volumes page. The left sidebar includes options like Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, Elastic Block Store (with sub-options like Volumes, Snapshots, Lifecycle Manager), Network & Security (with sub-options like Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), and Load Balancing. The main content area shows a table of volumes, with one row highlighted for a 'New Volume'.

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone
New Volume	vol-037f46a54fd30ff9b	2 GiB	gp2	100	-	October 7, 2020 at ...	ap-south-1a

Detailed information for the selected volume (vol-037f46a54fd30ff9b) is shown below:

Volumes: vol-037f46a54fd30ff9b (New Volume)

Description: vol-037f46a54fd30ff9b

Status Checks: None

Monitoring: None

Tags: None

Volume ID: vol-037f46a54fd30ff9b

Alarm status: None

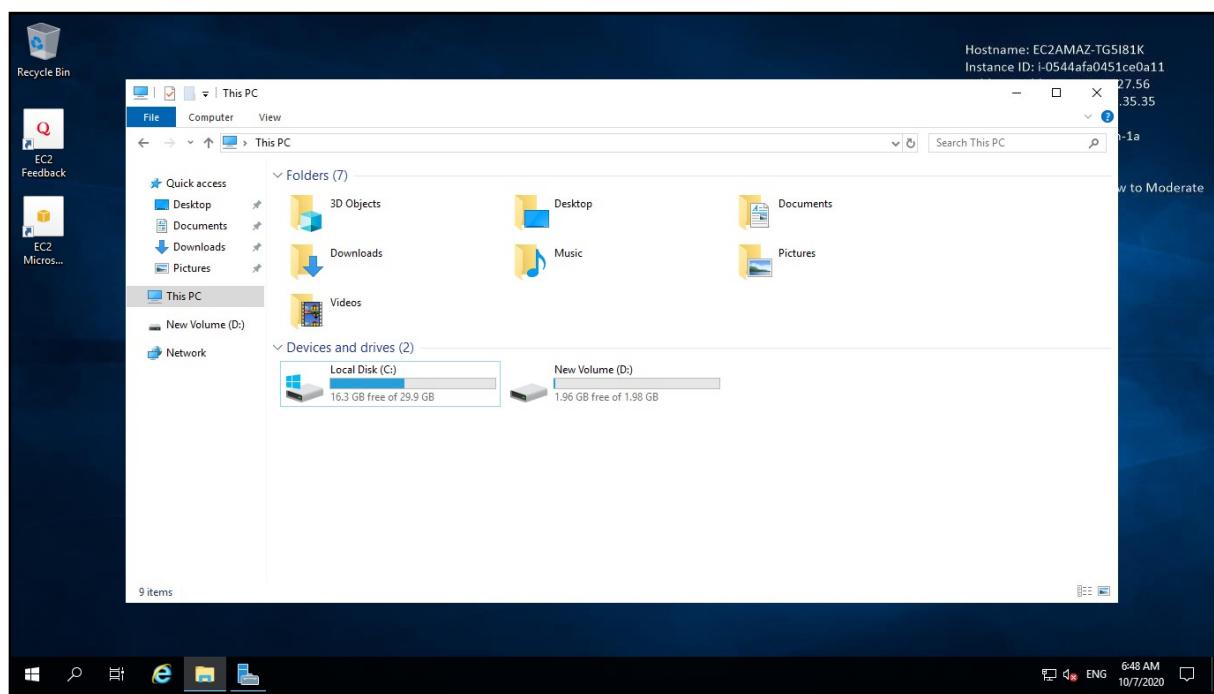
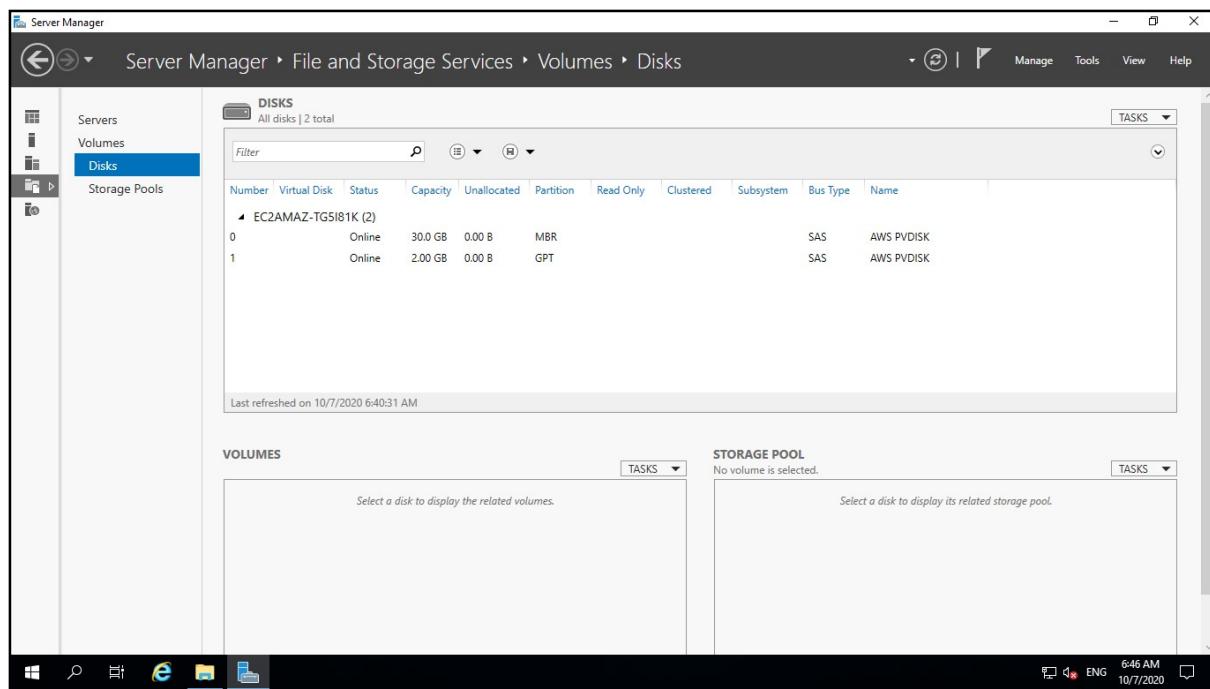
Snapshot: -

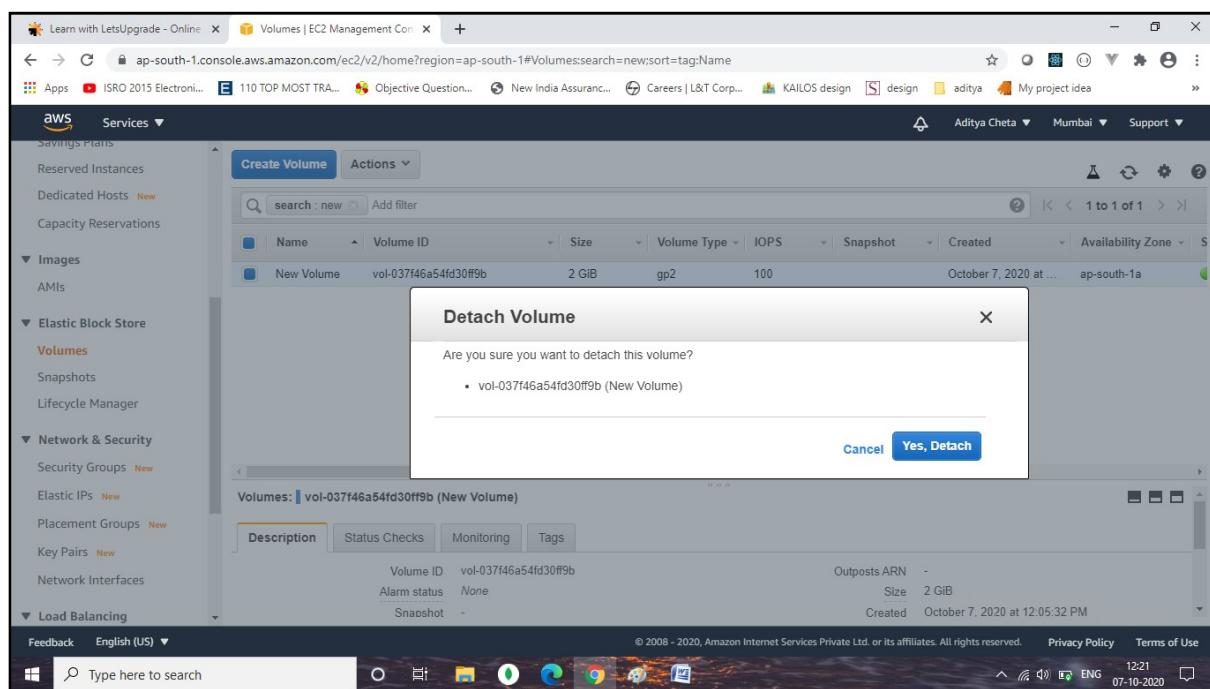
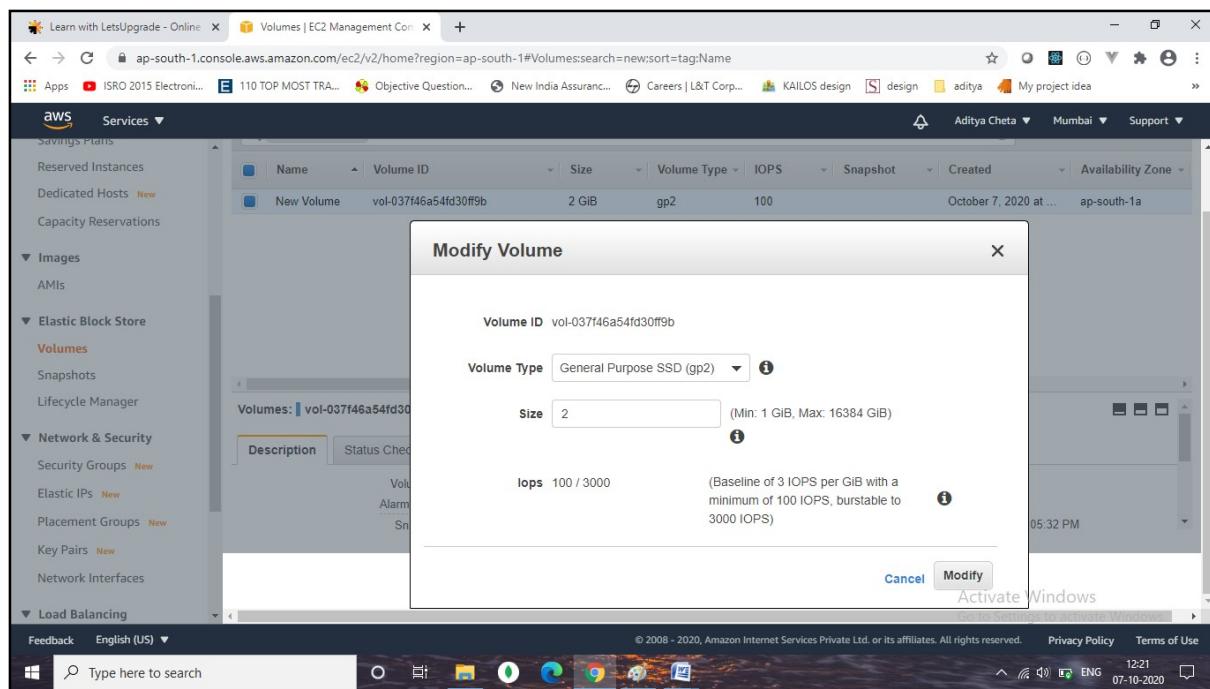
Outposts ARN: -

Size: 2 GiB

Created: October 7, 2020 at 12:05:32 PM

Activate Windows notification is present at the bottom.





The screenshot shows the AWS EC2 Management Console. On the left, the navigation pane includes options like Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, Elastic Block Store (with Volumes selected), Snapshots, Lifecycle Manager, Network & Security (with Security Groups selected), Elastic IPs, Placement Groups, Key Pairs, Network Interfaces, and Load Balancing. The main content area displays a table of volumes, with one row selected: "New Volume" (vol-037f46a54fd30ff9b). A modal dialog titled "Delete Volume" is open, asking "Are you sure you want to delete this volume?" with a list item "vol-037f46a54fd30ff9b (New Volume)". At the bottom of the dialog are "Cancel" and "Yes, Delete" buttons. Below the dialog, the volume details are shown: Volume ID vol-037f46a54fd30ff9b, Alarm status None, Snapshot -, Outposts ARN -, Size 2 GiB, and Created October 7, 2020 at 12:05:32 PM.

Project 4 - Elastic IPs:

The screenshot shows the AWS EC2 Management Console. The navigation pane is identical to the previous screenshot. A green success message box is displayed, stating "Elastic IP address associated successfully. Elastic IP address 13.234.82.178 has been associated with instance i-0b07875ab8fc920fa". Below this message, the "Elastic IP addresses (1)" table is shown, listing "New Elastic IP" with Allocated IPv4 address 13.234.82.178, Type Public IP, Allocation ID eipalloc-0ade845b9e362e629, and Instance ID i-0b07875ab8fc920fa. The table has columns: Name, Allocated IPv4 add..., Type, Allocation ID, and Ass.

Instance summary for i-0b07875ab8fc920fa (Elastic IP Demo Instance)

Instance ID	i-0b07875ab8fc920fa (Elastic IP Demo Instance)	Public IPv4 address	13.234.82.178 (New Elastic IP) open address
Instance state	Running	Public IPv4 DNS	ec2-13-234-82-178.ap-south-1.compute.amazonaws.com open address
Instance type	t2.micro	Elastic IP addresses	13.234.82.178 (Public IP)
IAM Role	-	Subnet ID	subnet-70ddae3c
		VPC ID	vpc-1dd23676

Q. What is the effect on Instances when you stop, start, reboot, terminate instances?

Stopped – Public IPv4 Address will be gone and will again be available in shared pool.

Start Again – Public IPv4 Address will change but the Server installed on the instance will be present.

Reboot - When you reboot an instance, it remains on the same physical host, so your instance keeps its public DNS name (IPv4), private IPv4 address, and any data on its instance store volumes.

Terminate – Instance created will not be associated with you and you will need to create a new instance again. IPv4 will be gone again in shared pool.

Project 5 – Working with S3:

a. Image Uploading to S3:

S3 buckets

Bucket name	Access	Region	Date created
imageupload1311	Objects can be public	Asia Pacific (Mumbai)	Oct 7, 2020 6:09:12 PM GMT+0530

image.jpg Latest version ▾

Properties

Owner
1064be06800a4fd8bc7090cf9a142a41a4d3f45d217f253bb5c70e6cd30ab

Last modified
Oct 7, 2020 6:16:01 PM GMT+0530

Etag
4b41c85111a23b462d2e207dfb8bd9ff

Storage class
Standard

Server-side encryption
None

Size
32.5 KB

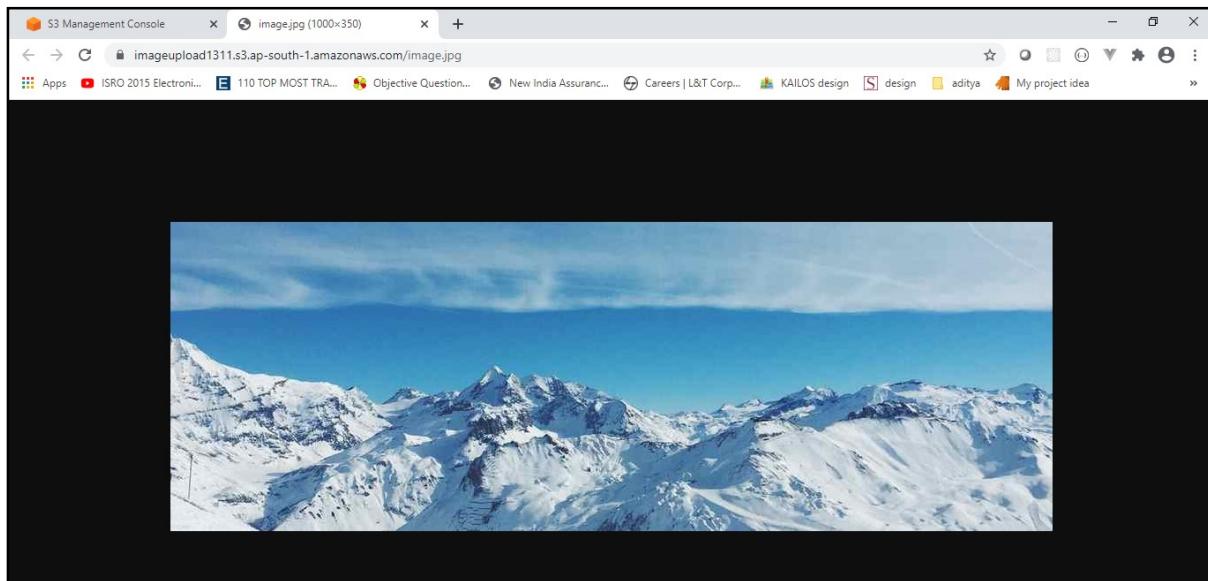
Key
image.jpg

Object URL
<https://imageupload1311.s3.ap-south-1.amazonaws.com/image.jpg>

Operations 0 In progress 1 Success 0 Error

Activate Windows
Go to Settings to activate Windows.

Feedback English (US) ▾



b. Static Web Hosting:

Buckets

Create bucket

S3 buckets

Discover the console

All access types

Bucket name: static

Access: Objects can be public

Region: Asia Pacific (Mumbai)

Date created: Oct 7, 2020 6:22:31 PM GMT+0530

Operations 0 In progress 4 Success 0 Error

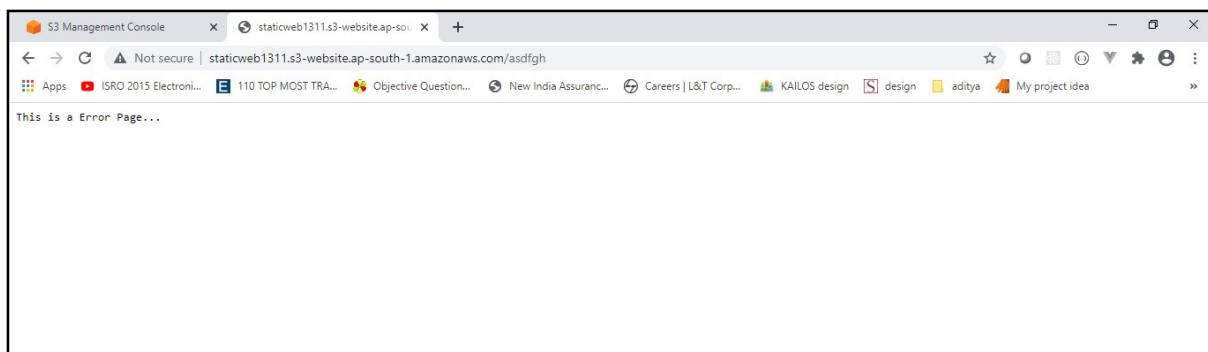
Activate Windows
Go to Settings to activate Windows.

Feedback English (US) ▾

The screenshot shows the AWS S3 console with the bucket 'staticweb1311' selected. The 'Overview' tab is active. The bucket contains two objects: 'error.txt' and 'index.txt'. Both were uploaded on October 7, 2020, at 6:25:33 PM GMT+0530. The file sizes are 23.0 B and 38.0 B respectively, and both are stored in the 'Standard' storage class. The region is set to 'Asia Pacific (Mumbai)'. The 'Actions' dropdown menu is visible.

This screenshot shows the 'Static website hosting' configuration dialog for the 'staticweb1311' bucket. The 'Endpoint' is set to `http://staticweb1311.s3-website.ap-south-1.amazonaws.com`. The 'Index document' is set to 'index.txt' and the 'Error document' is set to 'error.txt'. Under 'Redirection rules (optional)', there are two options: 'Redirect requests' and 'Disable website hosting', neither of which is selected. The 'Bucket hosting' checkbox is checked. The dialog has 'Cancel' and 'Save' buttons.

The screenshot shows a web browser window with the URL `staticweb1311.s3-website.ap-south-1.amazonaws.com`. The page content includes the text 'Hello !!' and 'Static web Hosting Demo...'. The browser's address bar shows the endpoint, and the status bar indicates it is 'Not secure'. The browser's toolbar and various tabs are visible at the top.



c. Versioning:

A screenshot of the AWS S3 Management Console. The left sidebar shows "Amazon S3" with "Buckets" selected. The main area is titled "Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. Learn more »" and contains a message: "We've temporarily re-enabled the previous version of the S3 console while we continue to improve the new S3 console experience. Switch to the new console." Below this is a search bar and a "Create bucket" button. A table lists one bucket: "versioning1311" (Bucket name), "Bucket and objects not public" (Access), "Asia Pacific (Mumbai)" (Region), and "Oct 7, 2020 6:35:32 PM GMT+0530" (Date created).

Bucket name	Access	Region	Date created
versioning1311	Bucket and objects not public	Asia Pacific (Mumbai)	Oct 7, 2020 6:35:32 PM GMT+0530

A screenshot of the AWS S3 bucket "versioning1311" overview page. The left sidebar shows "Amazon S3 > versioning1311". The main area has tabs for "Overview" (selected), "Properties", "Permissions", "Management", and "Access points". Below is a search bar and a toolbar with "Upload", "Create folder", "Download", "Actions", "Versions", "Hide", and "Show". A table lists one file: "demo.txt" (Name), "Oct 7, 2020 6:38:12 PM GMT+0530" (Last modified), "55.0 B" (Size), and "Standard" (Storage class).

Name	Last modified	Size	Storage class
demo.txt	Oct 7, 2020 6:38:12 PM GMT+0530	55.0 B	Standard

Amazon S3 > versioning1311

versioning1311

Overview Properties Permissions Management Access points

Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions Versions Hide Show Asia Pacific (Mumbai) Viewing 1 to 2

Name	Version ID	Last modified	Size	Storage class
demo.txt		Oct 7, 2020 6:38:12 PM	55.0 B	Standard
	ENLIXAZKndsqjRPe8HppaC6k0bmngB...			
	demo.txt	Oct 7, 2020 6:37:27 PM	31.0 B	Standard
	NrV6c9JPhC_rvOlfxjXf0yOYc00Uc			

Viewing 1 to 2

Activate Windows
Go to Settings to activate Windows.

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