

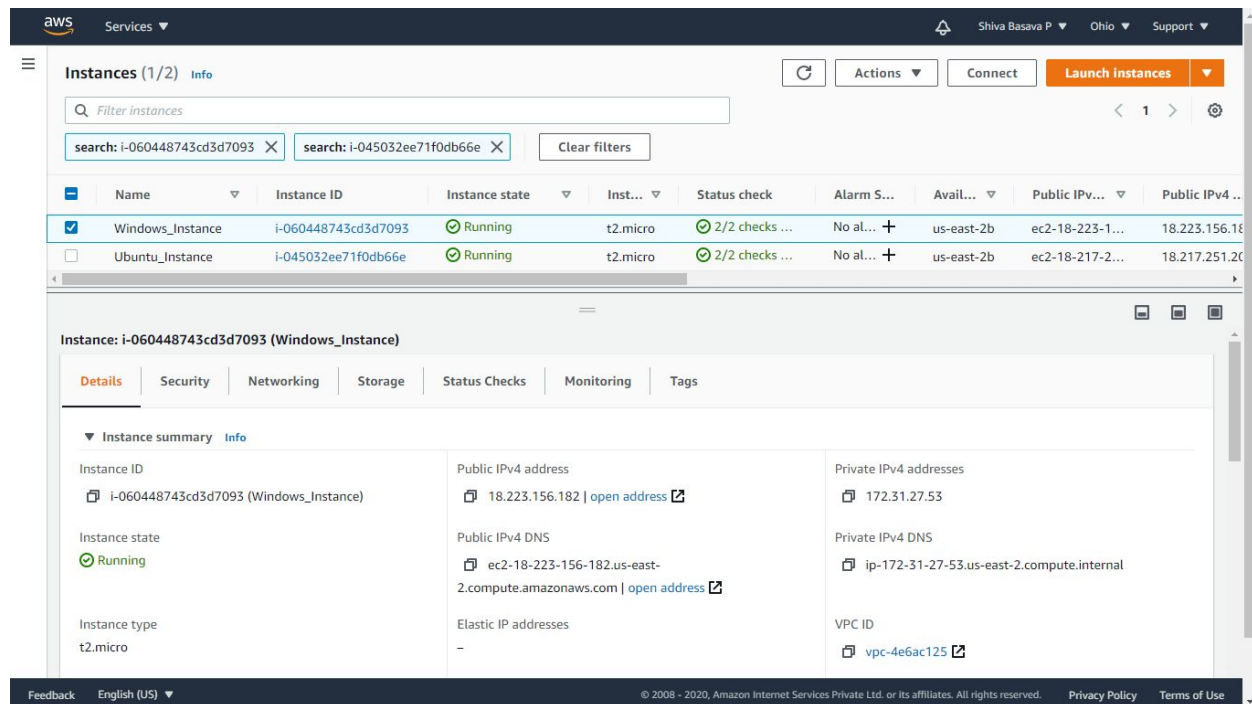
Assignment Solution - Day 3 & 4

● **PROJECT 1:**

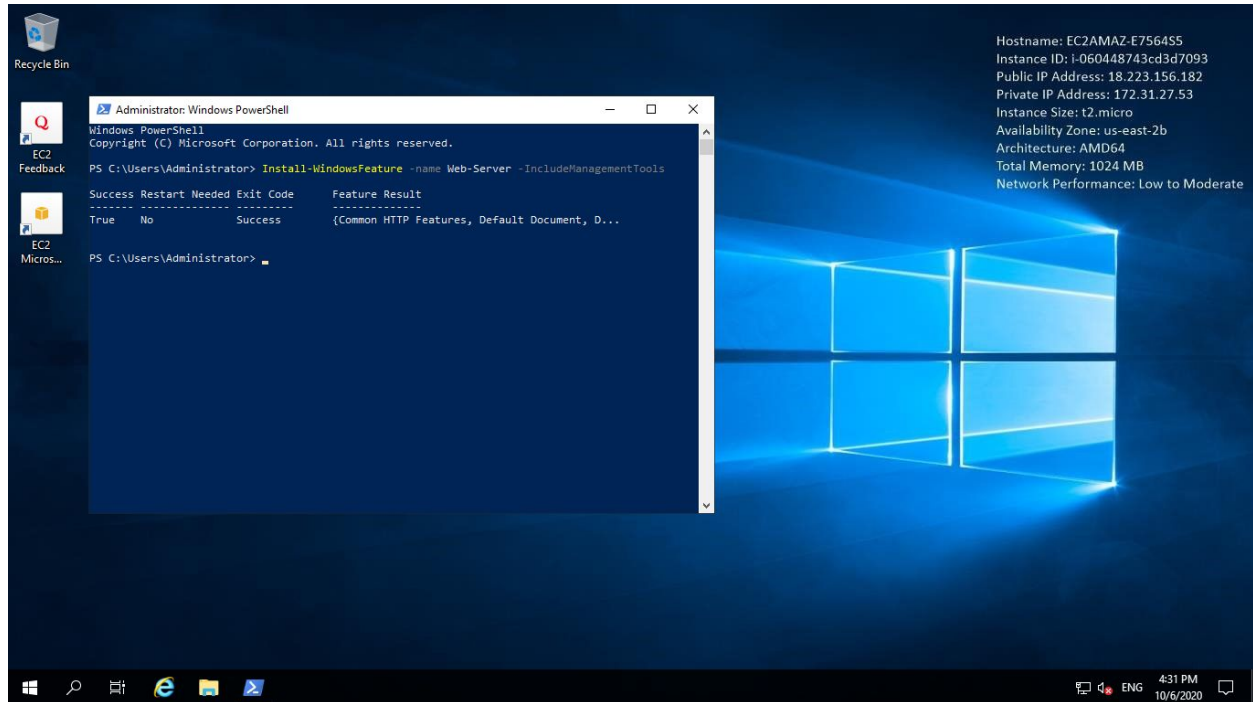
Deploying a web server in Windows instance.

Following are the stepwise screenshots from creation to deploying a web server in Windows instance.

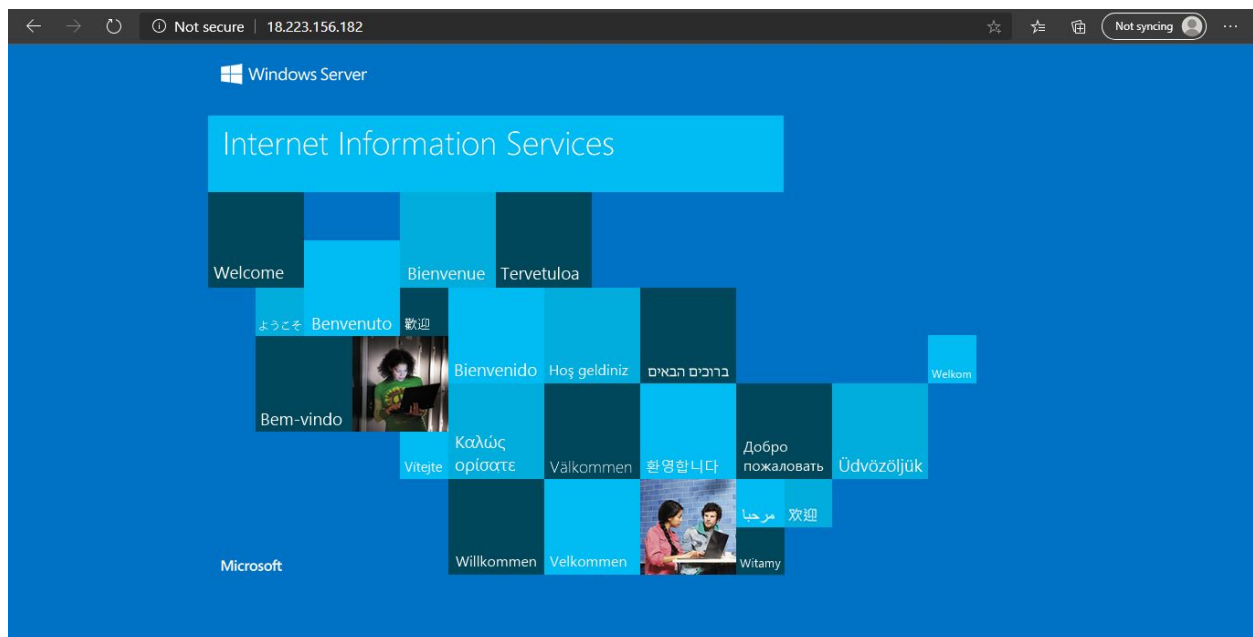
1. Below screenshot is an Overview of the Windows instance, after creation.



2. Installed a IIS web server in Windows Instance



3. We can access the web page by the Public IP - **18.223.156.182**

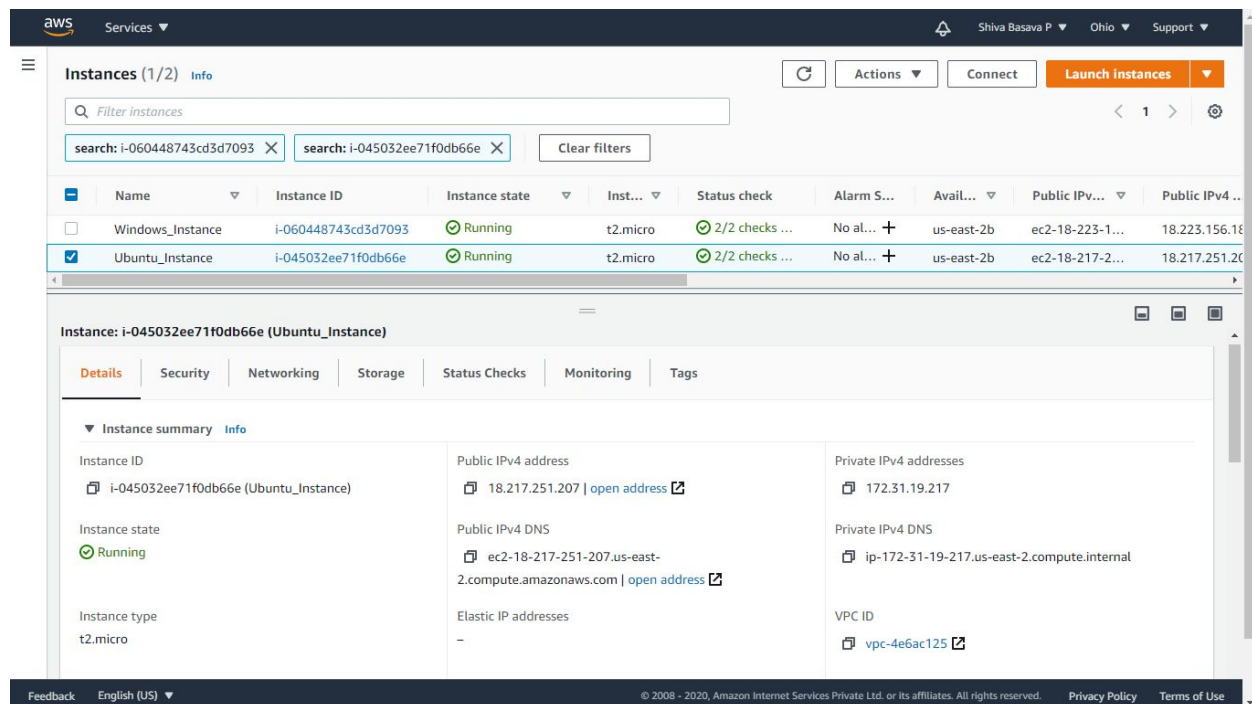


● **PROJECT 2:**

Deploying a web server in Ubuntu instance.

Following are the stepwise screenshots from creation to deploying a web server in Ubuntu instance.

- Below screenshot is an Overview of the Ubuntu instance, after creation.



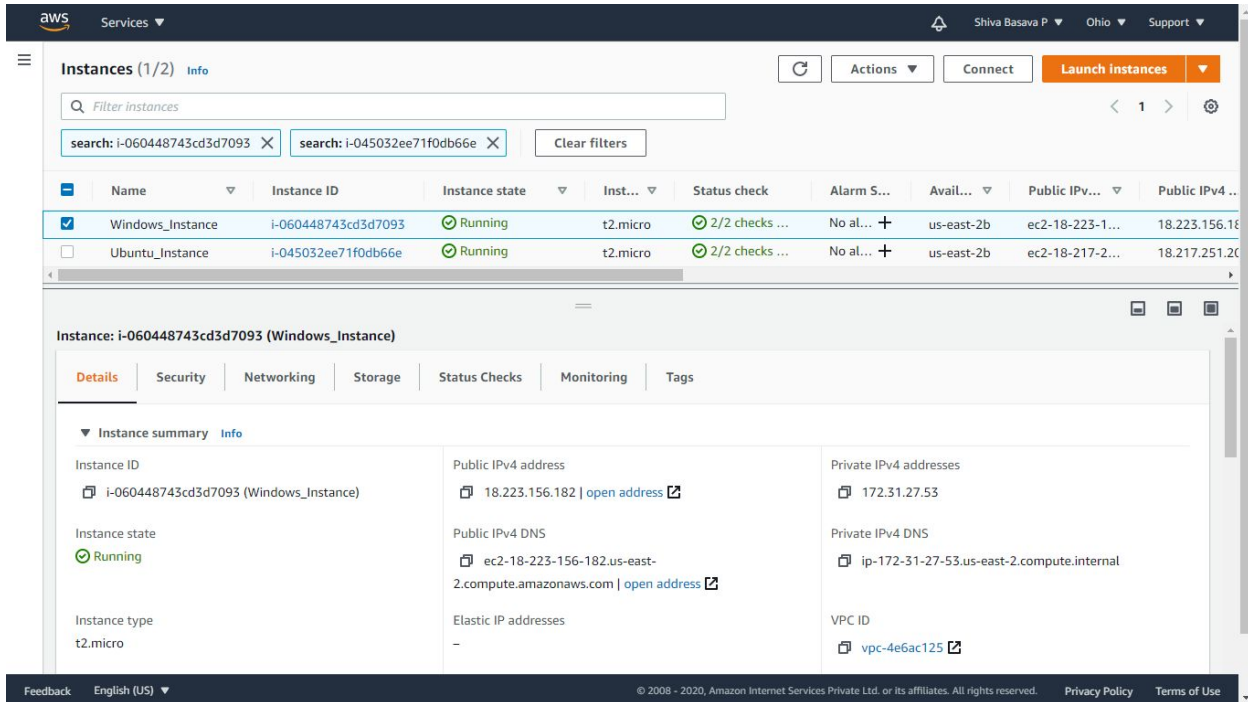
- After Successful login to Instance, Installed the 'nginx' server. Now, we can access the web page by the Public IP - **18.217.251.207**



• **PROJECT 3:** Working with volumes

Following are the stepwise screenshots, Which describe the creation or modifying of volume for Windows Instance.

- Created a Windows Instance



Instances (1/2)

Name	Instance ID	Instance state	Inst...	Status check	Alarm S...	Avail...	Public IPv...	Public IPv4 ...
Windows_Instance	i-060448743cd3d7093	Running	t2.micro	2/2 checks ...	No al...	us-east-2b	ec2-18-223-1...	18.223.156.182
Ubuntu_Instance	i-045032ee71f0db66e	Running	t2.micro	2/2 checks ...	No al...	us-east-2b	ec2-18-217-2...	18.217.251.200

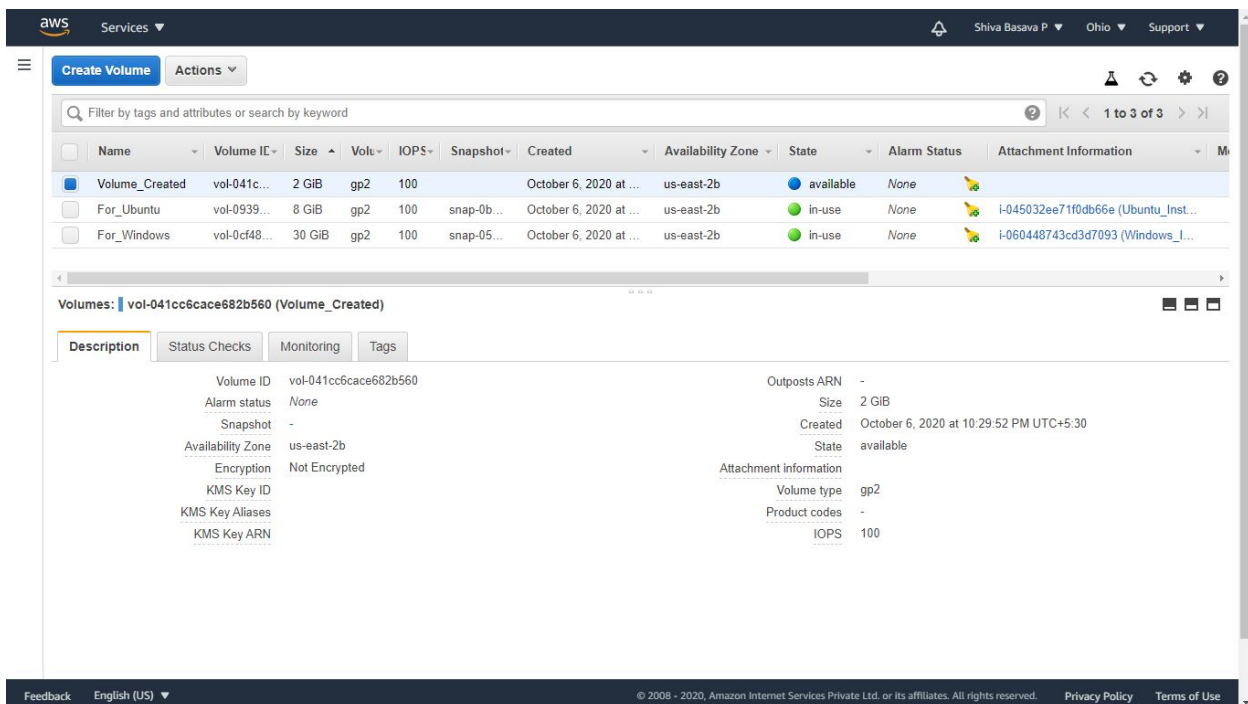
Instance: i-060448743cd3d7093 (Windows_Instance)

Details | Security | Networking | Storage | Status Checks | Monitoring | Tags

Instance summary Info

Instance ID i-060448743cd3d7093 (Windows_Instance)	Public IPv4 address 18.223.156.182 open address	Private IPv4 addresses 172.31.27.53
Instance state Running	Public IPv4 DNS ec2-18-223-156-182.us-east-2.compute.amazonaws.com open address	Private IPv4 DNS ip-172-31-27-53.us-east-2.compute.internal
Instance type t2.micro	Elastic IP addresses -	VPC ID vpc-4e6ac125

2. Created a New EBS Volume.



Create Volume Actions

Filter by tags and attributes or search by keyword

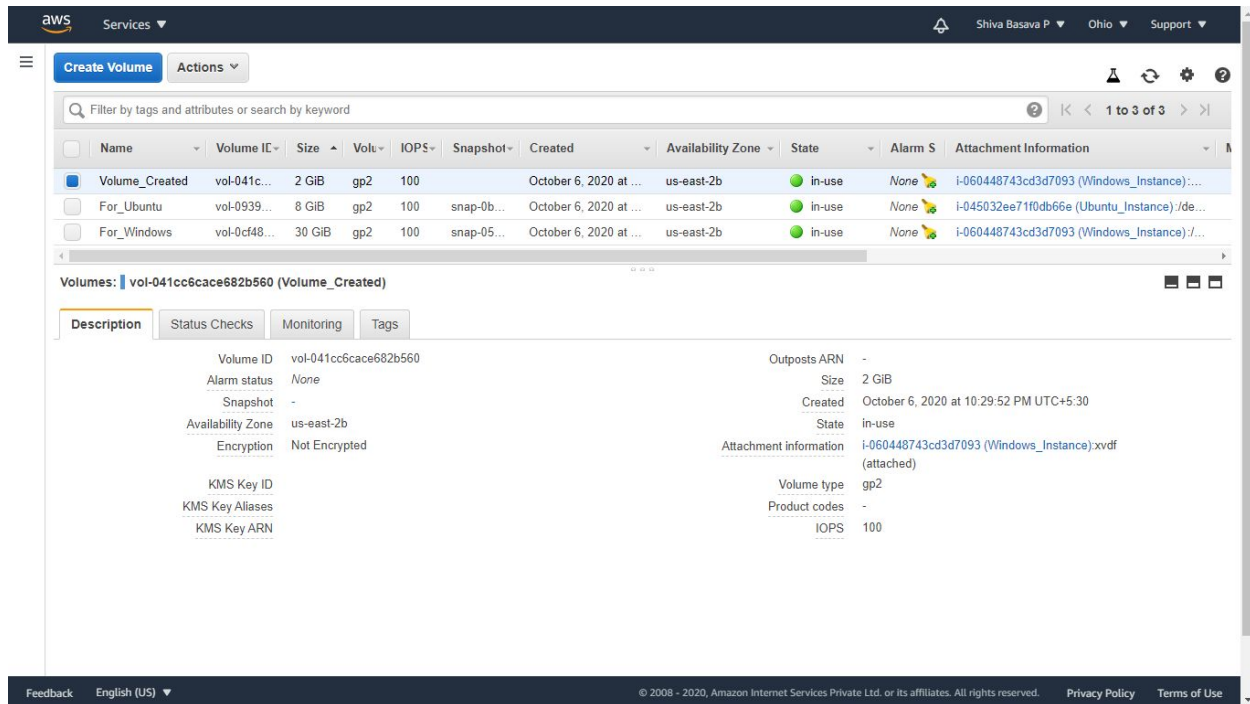
Name	Volume ID	Size	Volu...	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Information
Volume_Created	vol-041cc6cace682b560	2 GiB	gp2	100	-	October 6, 2020 at 10:29:52 PM UTC+5:30	us-east-2b	available	None	-
For_Ubuntu	vol-0939...	8 GiB	gp2	100	snap-0b...	October 6, 2020 at 10:29:52 PM UTC+5:30	us-east-2b	in-use	None	i-045032ee71f0db66e (Ubuntu_Instance)
For_Windows	vol-0cf48...	30 GiB	gp2	100	snap-05...	October 6, 2020 at 10:29:52 PM UTC+5:30	us-east-2b	in-use	None	i-060448743cd3d7093 (Windows_Instance)

Volumes: vol-041cc6cace682b560 (Volume_Created)

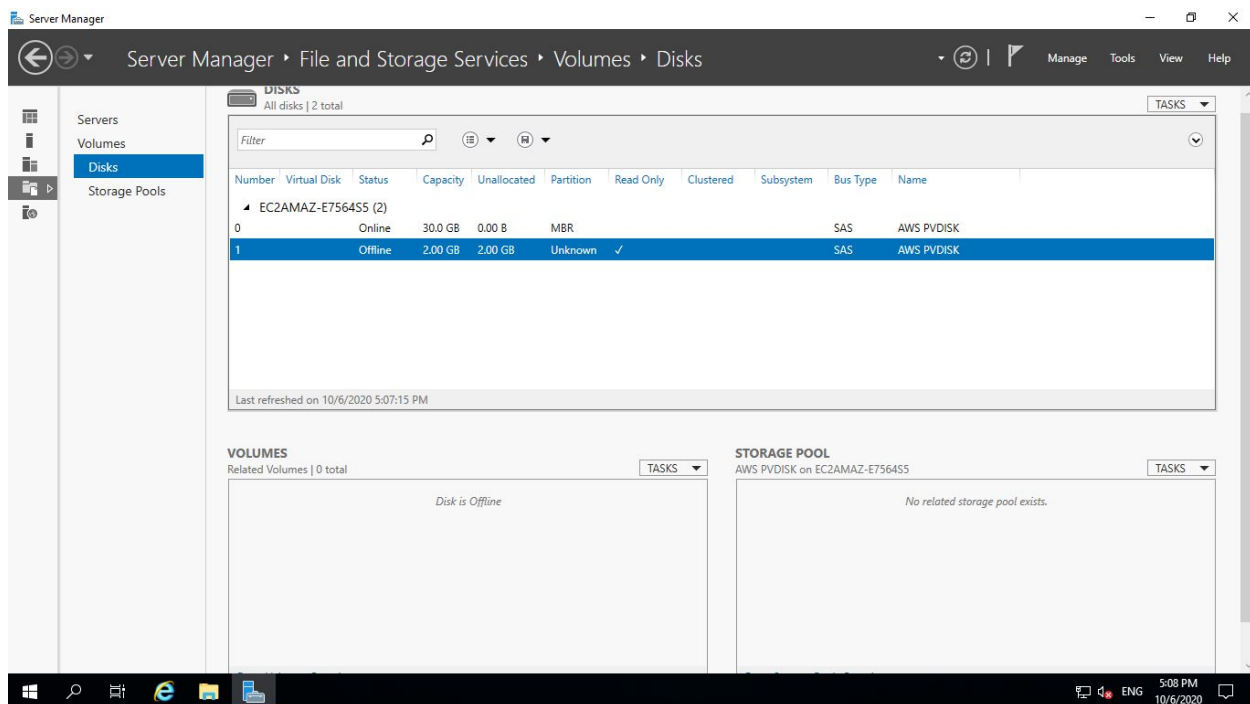
Description | Status Checks | Monitoring | Tags

Volume ID	vol-041cc6cace682b560	Outposts ARN	-
Alarm status	None	Size	2 GiB
Snapshot	-	Created	October 6, 2020 at 10:29:52 PM UTC+5:30
Availability Zone	us-east-2b	State	available
Encryption	Not Encrypted	Attachment information	
KMS Key ID	-	Volume type	gp2
KMS Key Aliases	-	Product codes	-
KMS Key ARN	-	IOPS	100

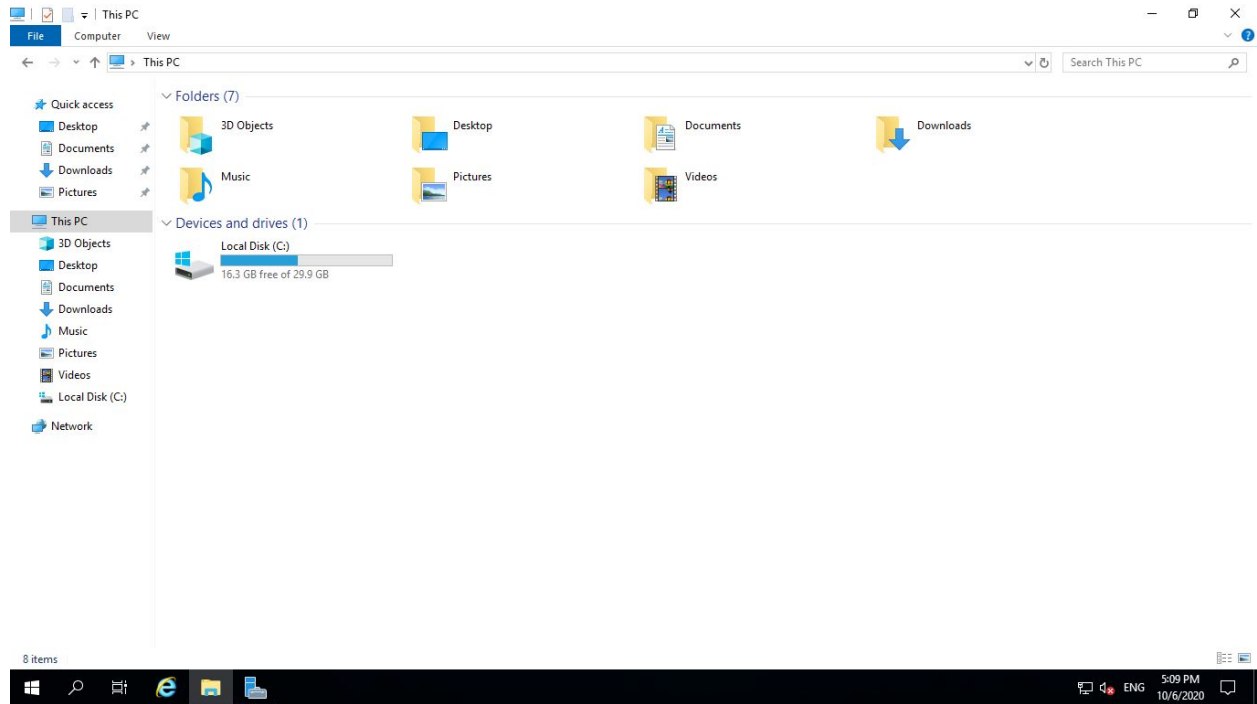
3. Attaching the Created EBS to the Windows Instance.



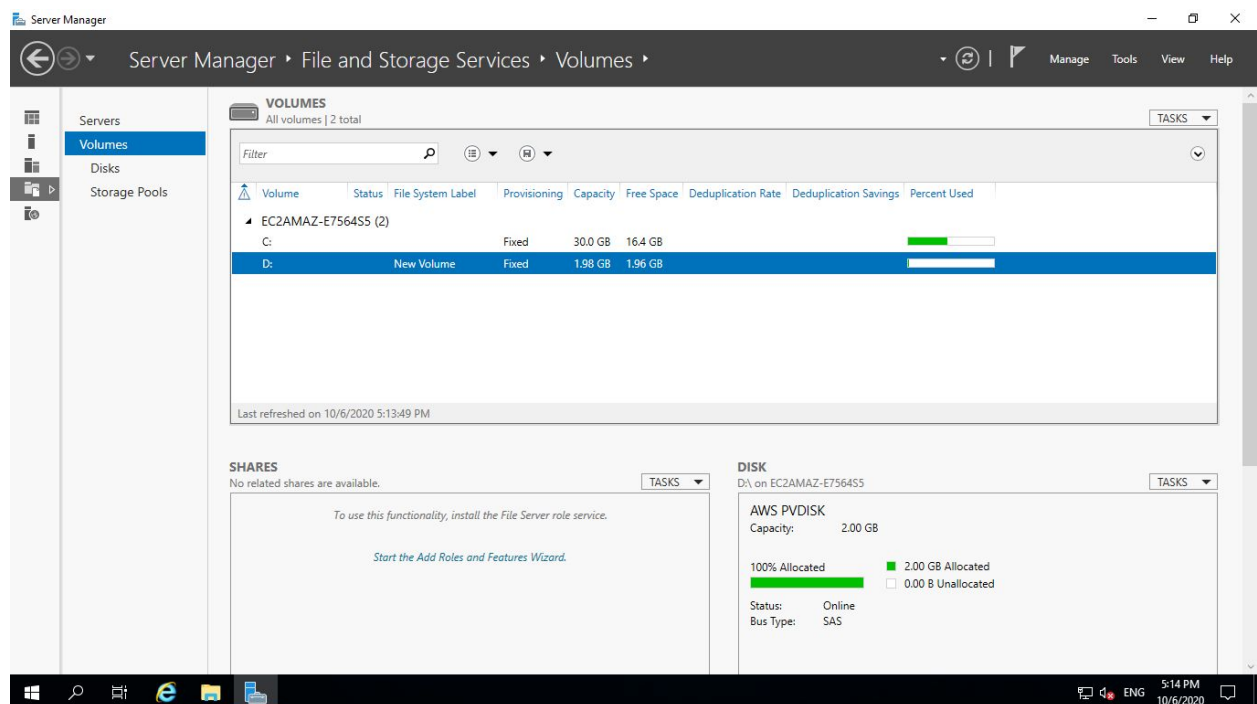
4. Now login to the Windows Instance and goto Server Management, Newly created EBS Volume will be in OFFLINE state.



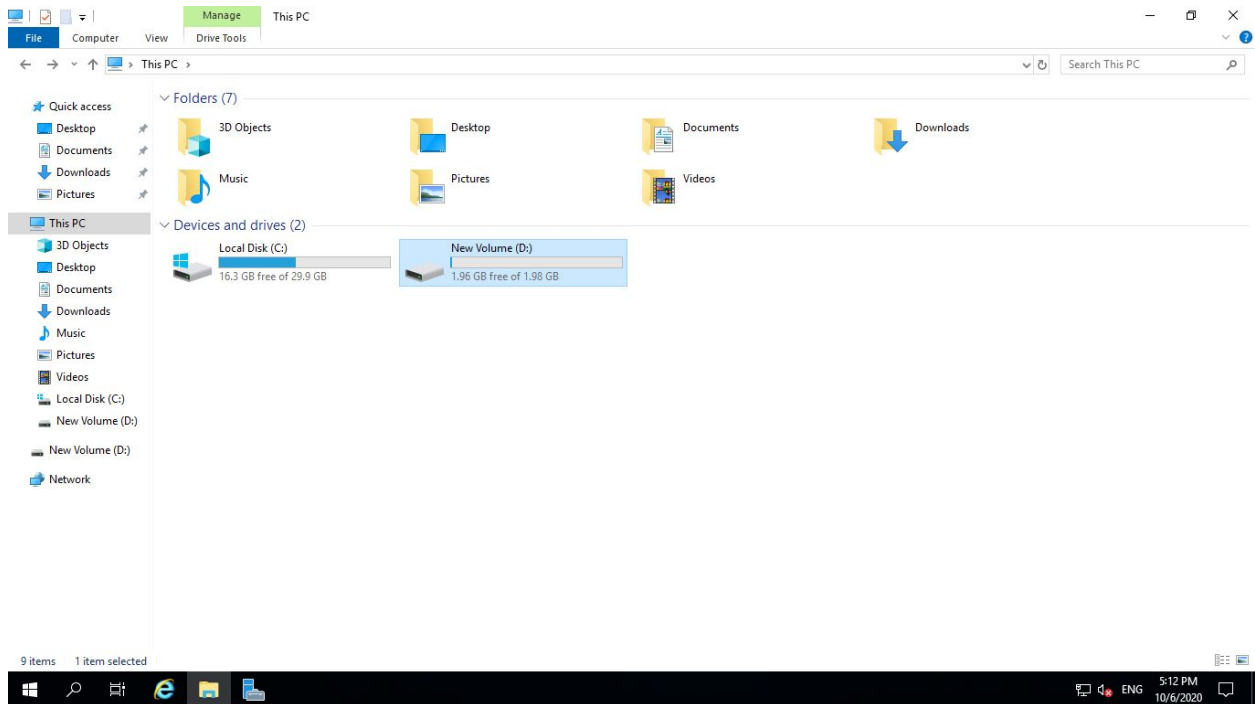
(This PC view)



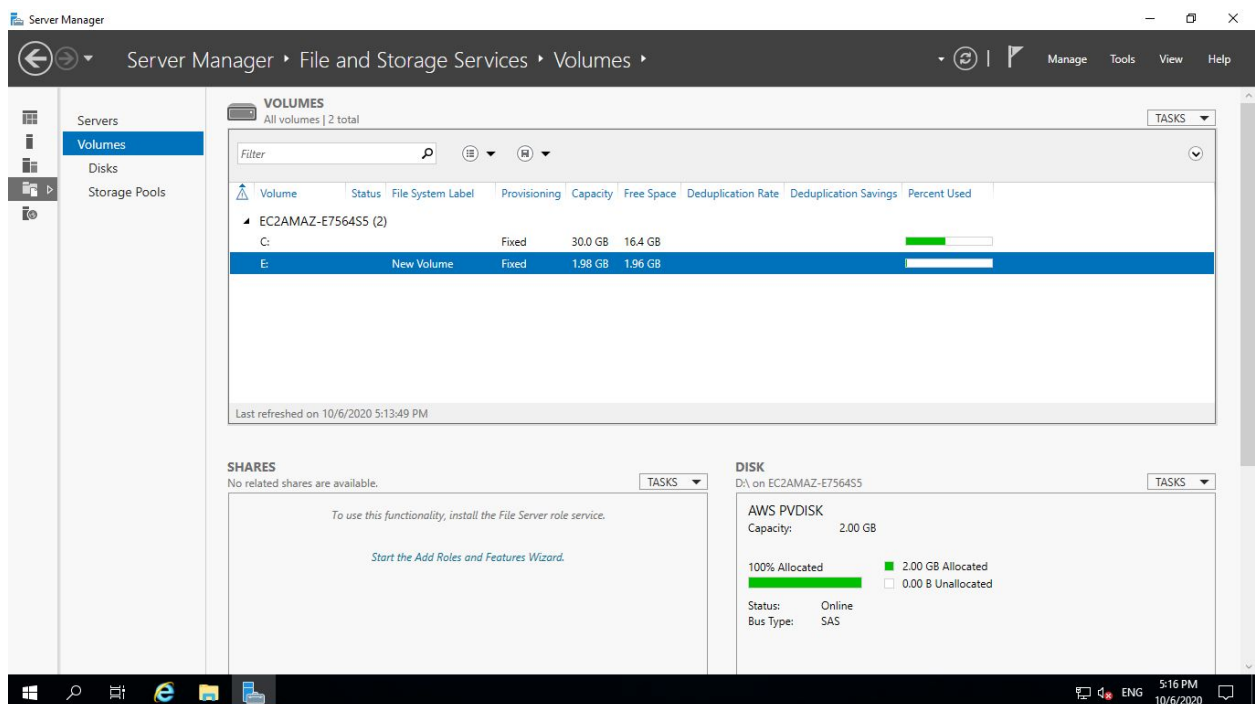
5. Bringing EBS ONLINE. And now the EBS volume is successfully Mounted.



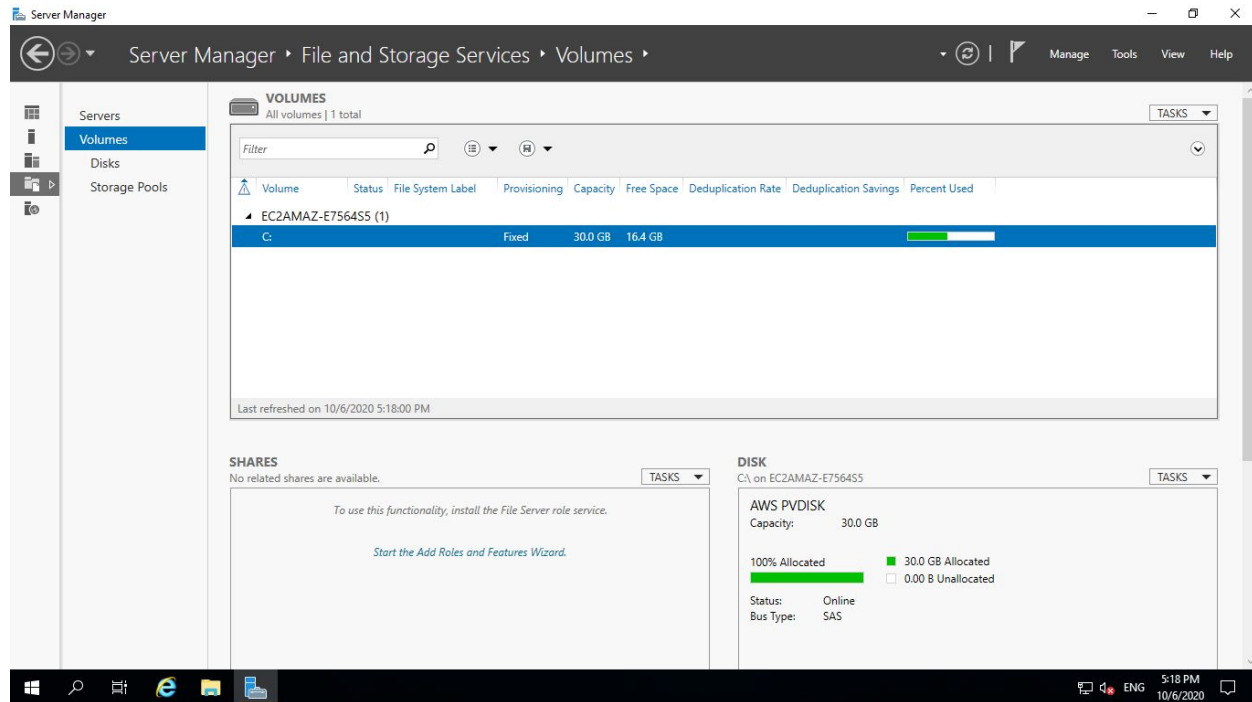
(This PC view)



6. Changed the Drive Name from 'D' to 'E'



7. Deleted the EBS Volume

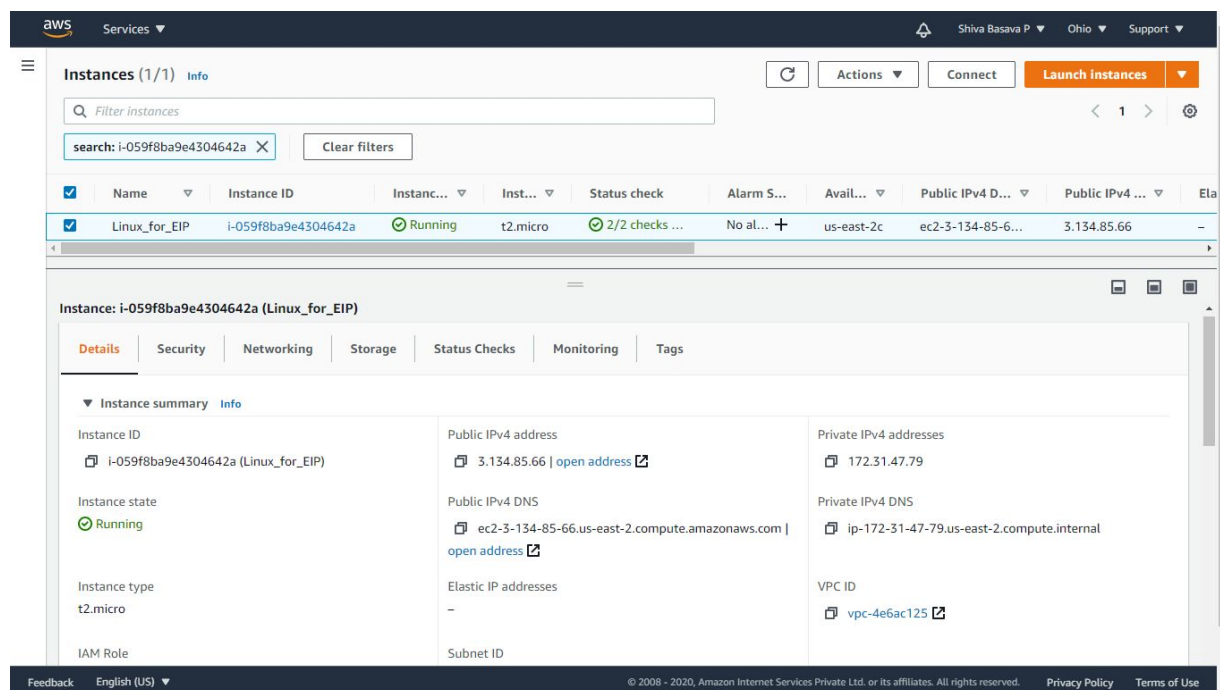


• **PROJECT 4:**

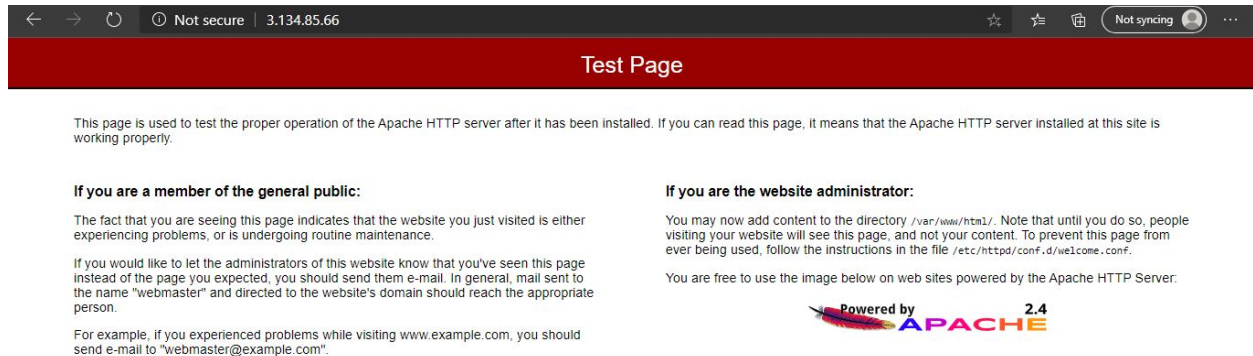
Working with Elastic IP's

Following are the stepwise screenshots, Which describe the creation of Elastic IP.

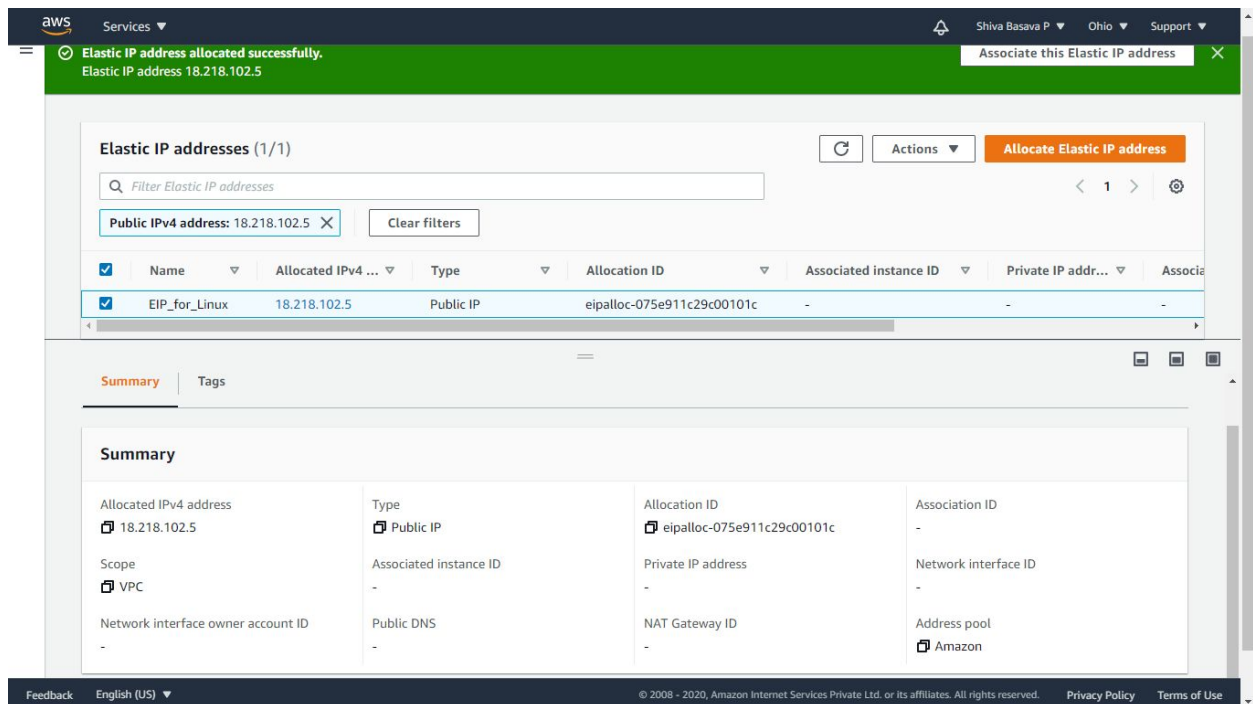
1. Created a Linux Instance.



2. Logged in as a Super root user, Updated the system and installed Apache server.
Now the web page(Test page) can be accessed by IP - **3.134.85.66**



3. Created an Elastic IP.



4. Allocated it to above Linux Instance.

Elastic IP address associated successfully.
Elastic IP address 18.218.102.5 has been associated with instance i-059f8ba9e4304642a

Elastic IP addresses (1/1)

Filter Elastic IP addresses

Public IPv4 address: 18.218.102.5

Name	Allocated IPv4 address	Type	Allocation ID	Associated instance ID	Private IP address	Association ID
EIP_for_Linux	18.218.102.5	Public IP	eipalloc-075e911c29c00101c	i-059f8ba9e4304642a	172.31.47.79	eipassoc-06e3764aecc0da5c

Summary

Allocated IPv4 address 18.218.102.5	Type Public IP	Allocation ID eipalloc-075e911c29c00101c	Association ID eipassoc-06e3764aecc0da5c
Scope VPC	Associated instance ID i-059f8ba9e4304642a	Private IP address 172.31.47.79	Network interface ID eni-064f2a8bce0dbfe74
Network interface owner account ID 973501320577	Public DNS ec2-18-218-102-5.us-east-2.compute.amazonaws.com	NAT Gateway ID -	Address pool Amazon

5. Now we can access the web page(Test page) by using the Elastic IP's Id - **18.218.102.5**

Test Page

This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

If you are the website administrator:

You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

You are free to use the image below on web sites powered by the Apache HTTP Server.

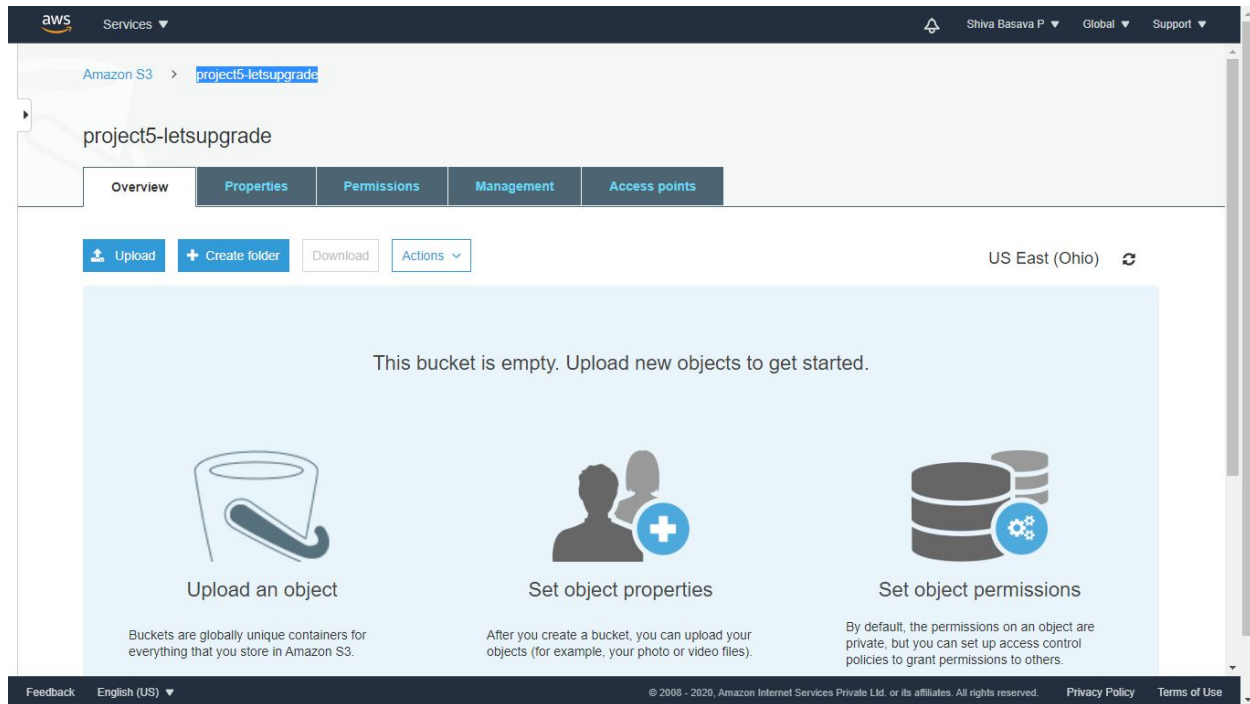
Powered by **2.4** **APACHE**

• **PROJECT 5:**

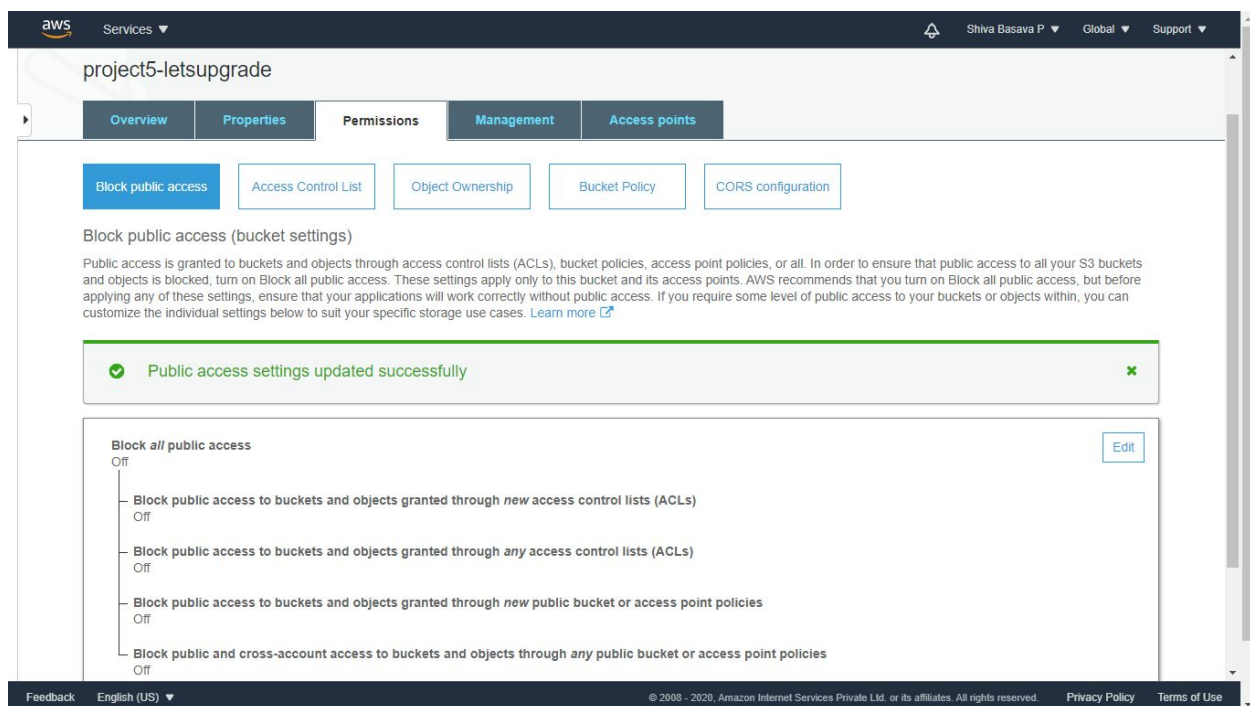
Working with S3 -

I. **Uploading an Image of format '.jpg' to S3**

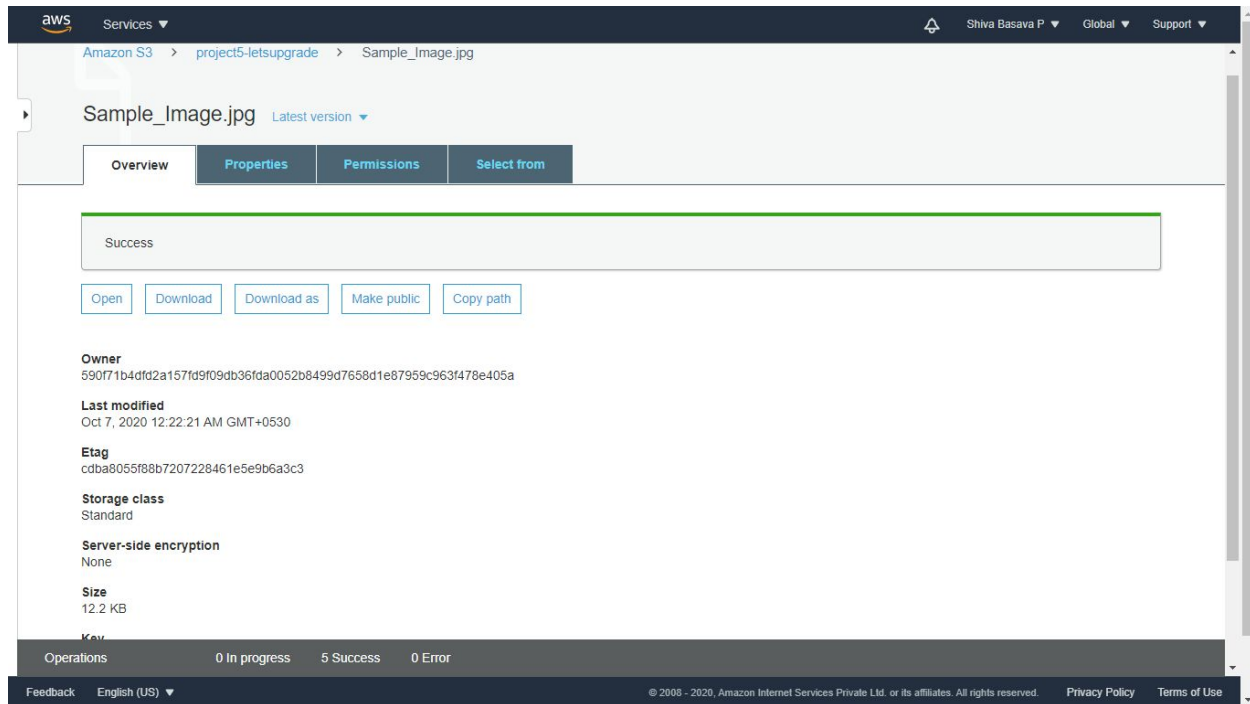
1. Create a S3 bucket (project5-letsupgrade)



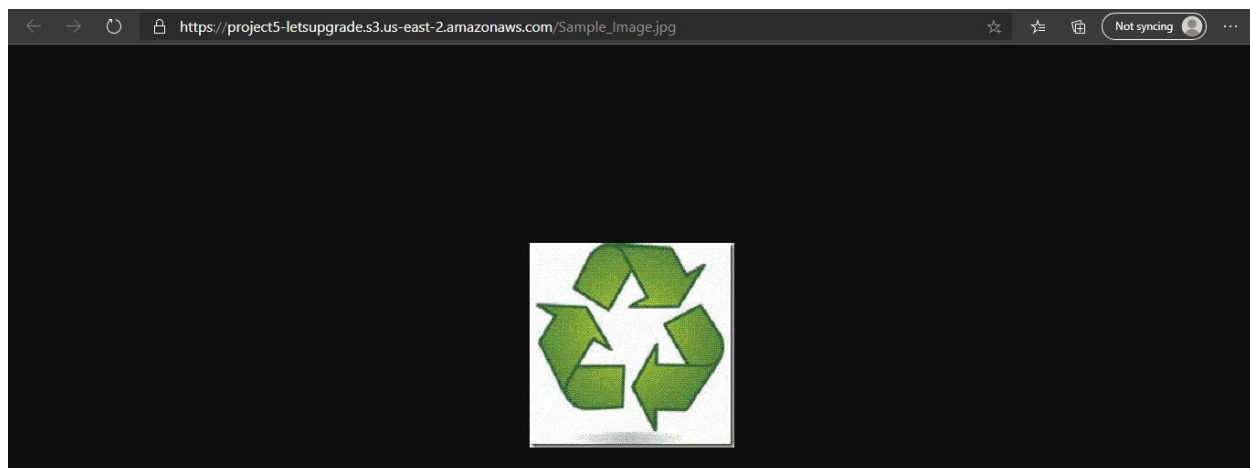
2. Make the S3 bucket's permission to PUBLIC.



3. Upload an Image of format '.jpg' and also change its visibility to PUBLIC as well.

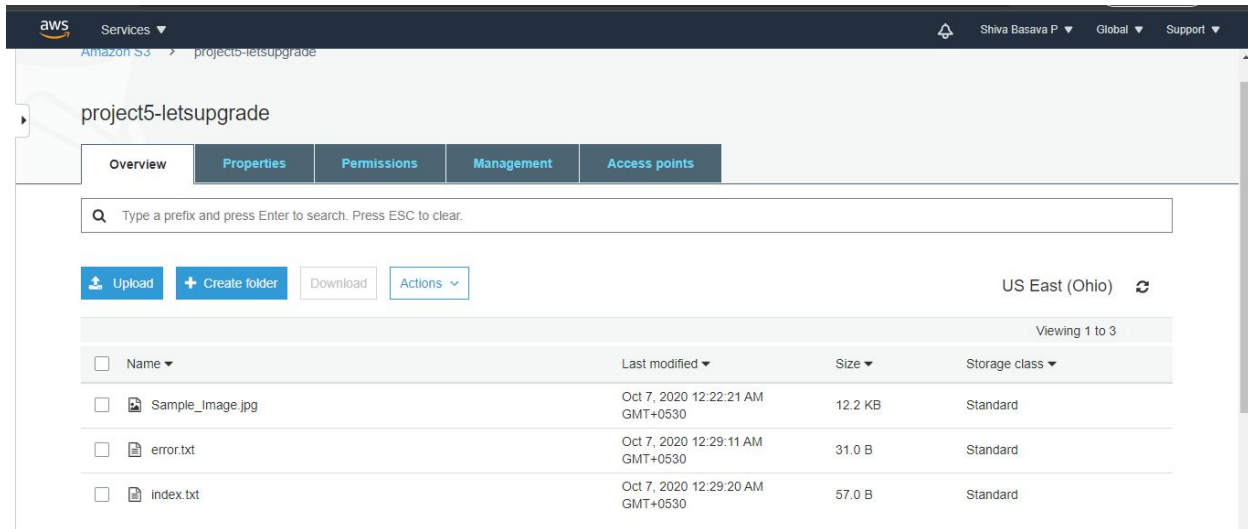


4. Now we'll be able to access the uploaded image by its **Object URL**.

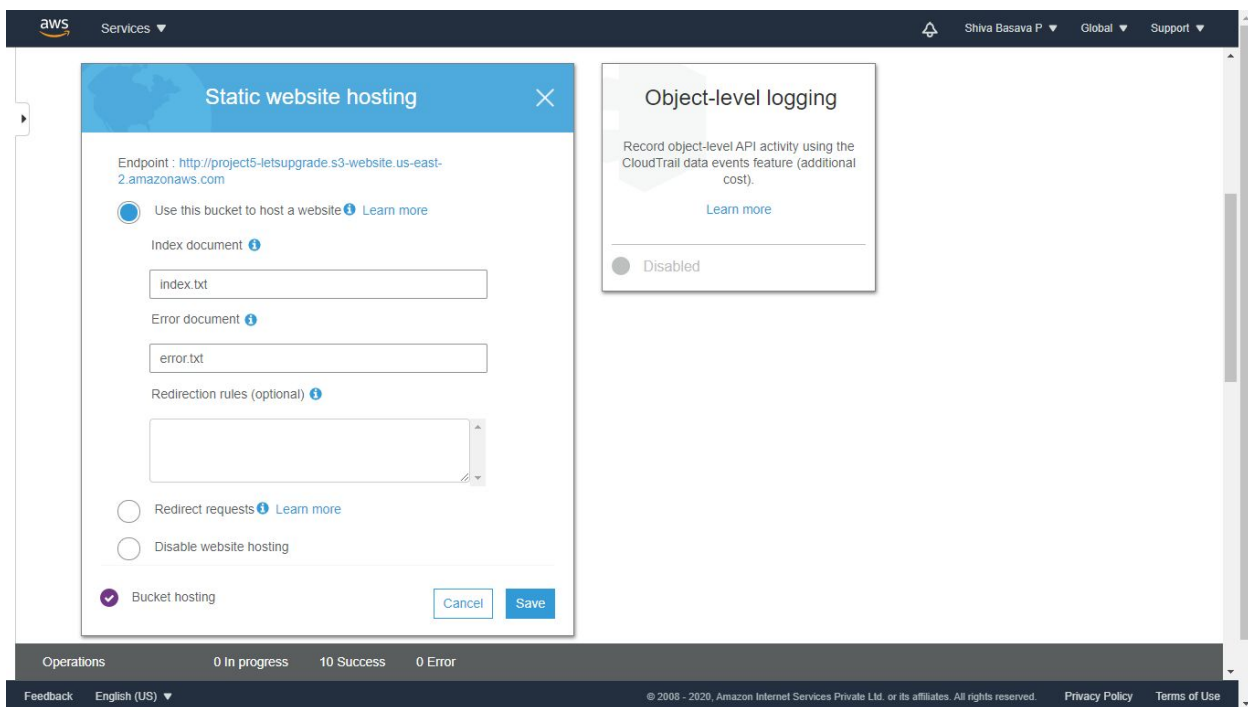


II. Static web hosting

1. In the above S3 bucket, Upload two text files - index.txt and error.txt

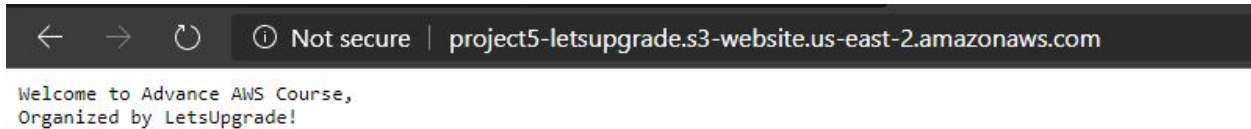


2. Let's ENABLE the option for Static Web Hosting. And fill in required details(like- file name). And it'll auto generate link, through which we can access this Static web page.

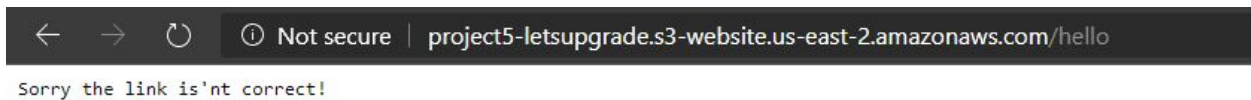


3. Following are the success and error messages, the web page will display.

(success)

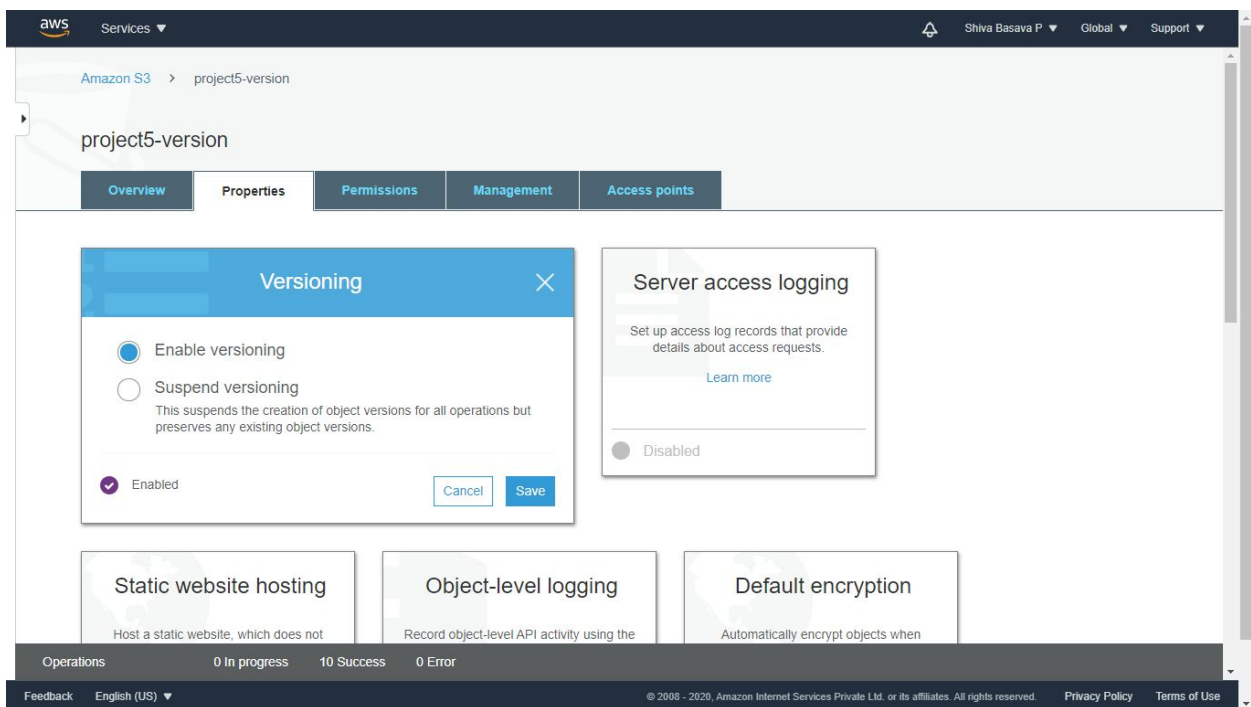


(error)



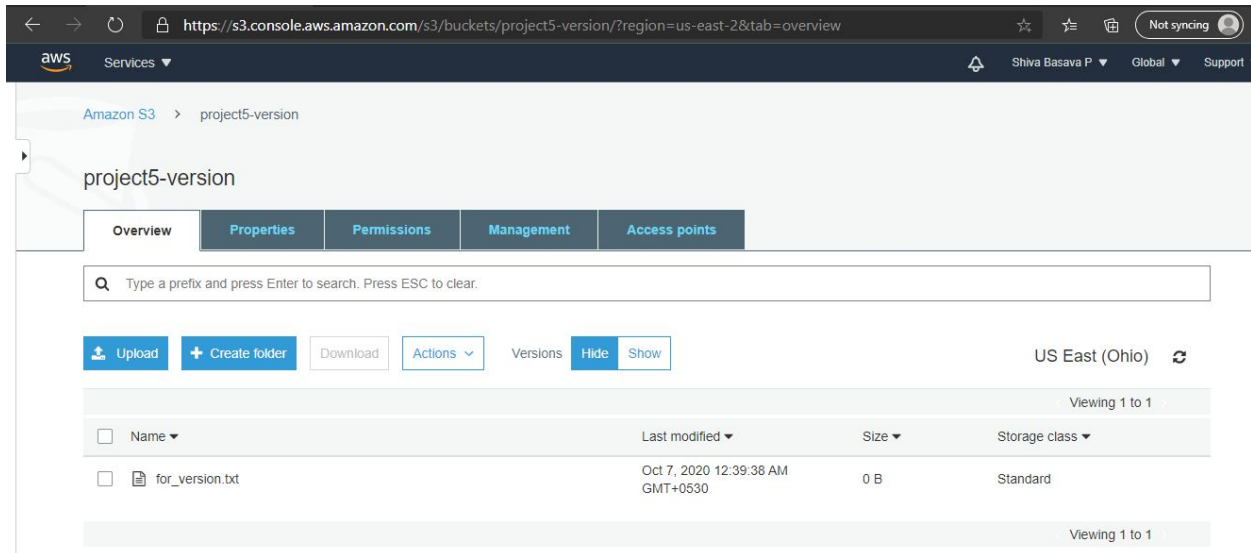
III. Versioning

1. Created a new S3 bucket (project5-version)



2. Enabling the Versioning option for the S3 Bucket.

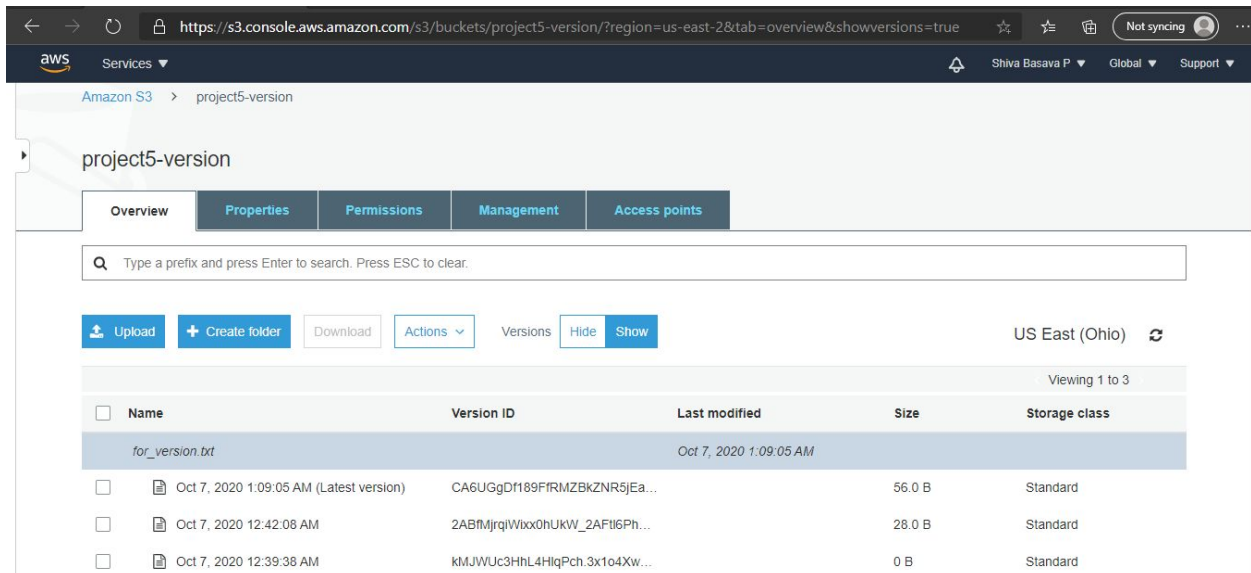
(hide versions)



The screenshot shows the AWS S3 console interface for the bucket 'project5-version'. The 'Overview' tab is selected. In the 'Versions' section, the 'Hide' button is active, and the 'Show' button is disabled. The table below shows a single object named 'for_version.txt' with a size of 0 B and a storage class of 'Standard'.

Name	Last modified	Size	Storage class
for_version.txt	Oct 7, 2020 12:39:38 AM GMT+0530	0 B	Standard

(Show versions)



The screenshot shows the AWS S3 console interface for the bucket 'project5-version'. The 'Overview' tab is selected. In the 'Versions' section, the 'Show' button is active, and the 'Hide' button is disabled. The table below shows three versions of the object 'for_version.txt'.

Name	Version ID	Last modified	Size	Storage class
for_version.txt		Oct 7, 2020 1:09:05 AM		
Oct 7, 2020 1:09:05 AM (Latest version)	CA6UGgDf189FFRMZBKZNR5JEa...		56.0 B	Standard
Oct 7, 2020 12:42:08 AM	2ABfMjrqlWtx0hUkW_2AFtl6Ph...		28.0 B	Standard
Oct 7, 2020 12:39:38 AM	kMJWUc3HhL4HlqPch.3x1o4Xw...		0 B	Standard