



ASSIGNMENT NO - 01

PROJECT NO - 01

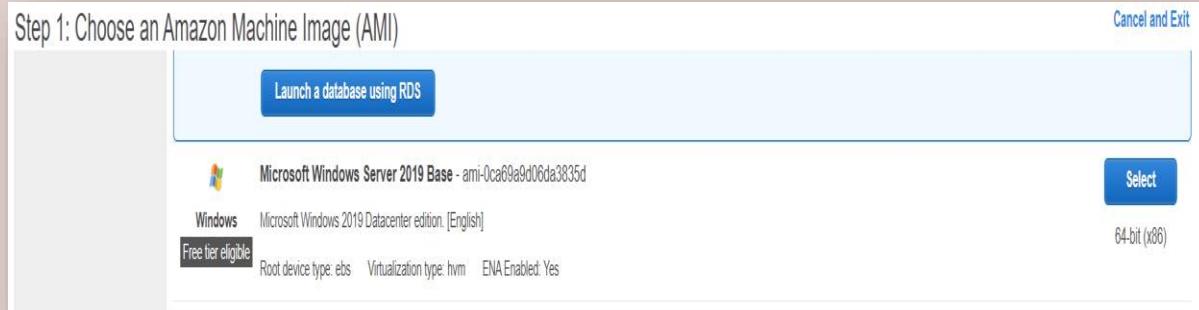
➤ Deploying a web server in Windows instance.

STEPS :-

- Creating first Account on the Amazon web service.
- Then go to EC2 dashboard and and then to the Instances, and then create Window Instance choosing window AMI.

The screenshot shows the AWS EC2 Dashboard. On the left, there's a sidebar with navigation links like 'EC2 Dashboard', 'Events', 'Tags', 'Limits', 'Instances', 'Images', 'Elastic Block Store', and 'Lifecycle Manager'. The main content area has a blue header bar with the text 'Welcome to the new EC2 console!' and a message about the redesign. Below this, there's a 'Resources' section showing counts for various EC2 components: Running instances (0), Elastic IPs (0), Dedicated Hosts (0), Snapshots (0), Volumes (0), Load balancers (0), Key pairs (2), Security groups (11), and Placement groups (0). A callout box points to the 'Launch instance' button in the 'Launch instance' section. The 'Service health' section shows the region as 'US East (Ohio)' and the status as 'This service is operating normally'. The 'Account attributes' and 'Additional information' sections provide more details about the account setup.

- Then Choose AMI,



- THE GIVEN- Windows 2012 R2 base is there but instances type option was not available.

Step 1: Choose an Amazon Machine Image (AMI)

AMI Name	Description	Select Button	Architecture
SUSE Linux	SUSE Linux Enterprise Server 12 Service Pack 5 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.		64-bit (x86)
Ubuntu Server 18.04 LTS (HVM), SSD Volume Type	Ubuntu Server 18.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).		<input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm)
Microsoft Windows Server 2012 R2 with SQL Server 2016 Standard	Microsoft Windows Server 2012 R2 Standard edition, 64-bit architecture, Microsoft SQL Server 2016 Standard edition. [English]	Select	64-bit (x86)
Microsoft Windows Server 2012 R2 with SQL Server 2016 Enterprise	Microsoft Windows Server 2012 R2 Standard edition, 64-bit architecture, Microsoft SQL Server 2016 Enterprise edition. [English]	Select	64-bit (x86)
Amazon Linux 2 with .Net Core, PowerShell, Mono, and MATE Desktop Environment	.NET Core 3.1, Mono 6.8, PowerShell 6.2, and MATE DE pre-installed to run your .NET applications on Amazon Linux 2 with Long Term Support (LTS).	Select	64-bit (x86)
Ubuntu Server 16.04 LTS (HVM), SSD Volume Type	Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).	Select	<input checked="" type="radio"/> 64-bit (x86) <input type="radio"/> 64-bit (Arm)

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t3a.xlarge (Variable ECUs, 4 vCPUs, 2.2 GHz, AMD EPYC 7571, 16 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
0	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
0	General purpose	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
0	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
0	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
0	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
0	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
0	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
0	General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
0	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

➤ Launch the Windows instance.

Instances | EC2 Management Con

https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:search=i-0d5d94e23197a99b8;sort=instancetype

New EC2 Experience Tell us what you think

EC2 Dashboard **New**

Events **New**

Tags

Limits

Instances **Instances New**

- Instances Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts **New**
- Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups **New**

Feedback English (US) ▾

Instances (1) Info

Filter instances

search: i-0d5d94e23197a99b8 X Clear filters

Name	Instance ID	Instance state	Status check	Alarm Sta...	Availability z...	Public IPv4 DNS	Public IPv...	Elastic Ip
DWS - Wind...	i-0d5d94e23197a99b8	Running	t2.micro	2/2 check...	No alar...	us-east-2b	ec2-3-135-235-234...	3.135.235.234

Select an instance above

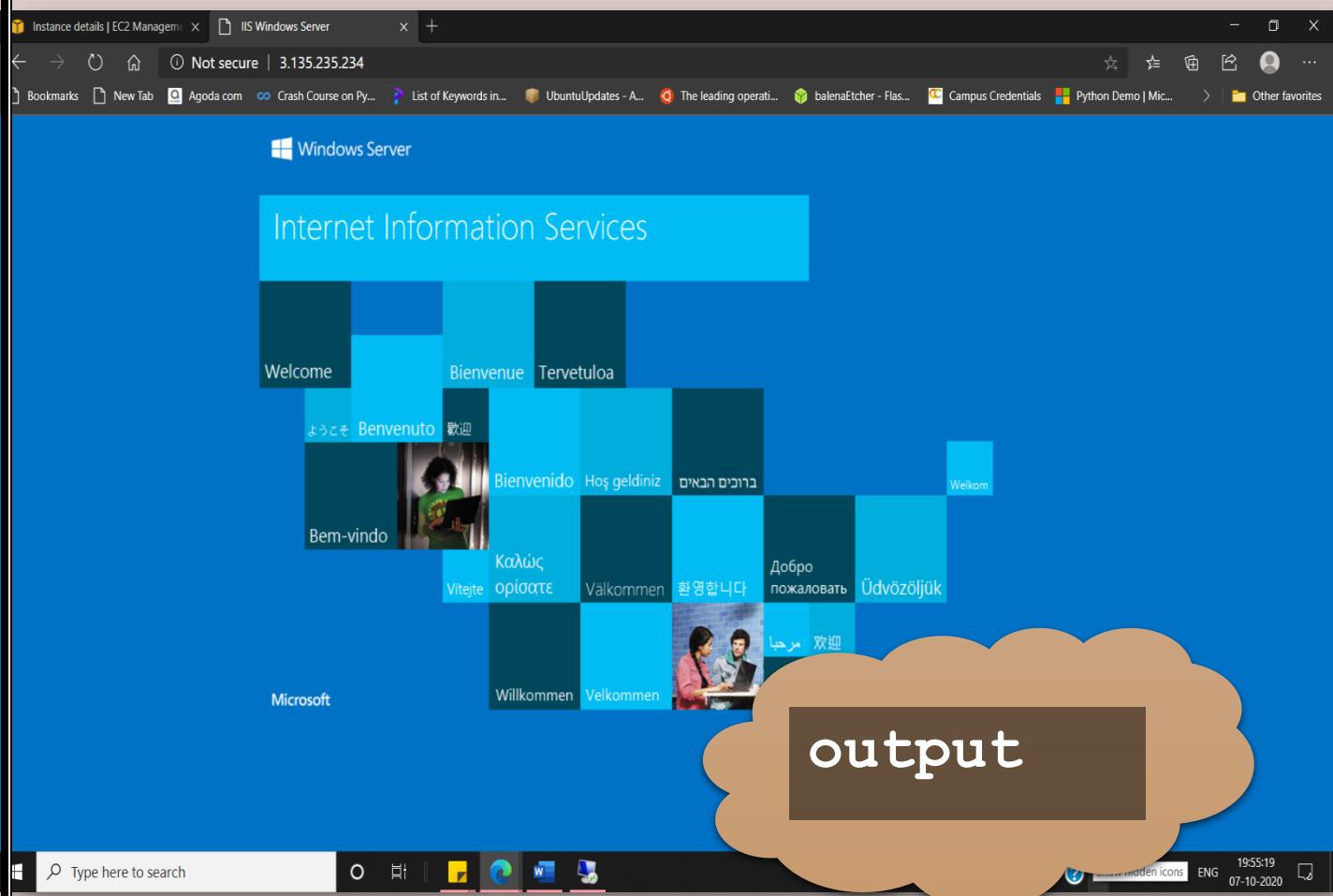
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➤ Install IIS web server using Powershell ISE.

➤ Type the command-

```
Install-WindowsFeature -name Web-Server  
-IncludeManagementTools
```

➤ Verify successful installation of IIS Web Server.



A screenshot of the AWS EC2 Management Console. The left sidebar shows navigation options like New EC2 Experience, EC2 Dashboard, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area displays a table of instances with one row selected. The selected instance is named 'DWS - Wind...', has an Instance ID of 'i-0d5d94e23197a99b8', is in a 'Running' state, and is a 't2.micro' type. The table includes columns for Name, Instance ID, Instance state, Status check, Alarm Sta..., Availability z..., Public IPv4 DNS, and Public IPv4. Below the table, a detailed view for the selected instance is shown with tabs for Details, Security, Networking, Storage, Status Checks, Monitoring, and Tags. The 'Details' tab is active, showing the Instance summary. The 'Public IPv4 address' field is highlighted with a red box and an arrow pointing to it from the text 'By Selecting Public IPV4 ADDRESS ...'.

Name	Instance ID	Instance state	Status check	Alarm Sta...	Availability z...	Public IPv4 DNS	Public IPv4
DWS - Wind...	i-0d5d94e23197a99b8	Running	2/2 check...	No alar...	us-east-2b	ec2-3-135-235-234....	3.135.235...

Instance: i-0d5d94e23197a99b8 (DWS - Windows instance)

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

Instance summary

Instance ID: i-0d5d94e23197a99b8 (DWS - Windows instance)

Instance state: Running

Instance type: t2.micro

Public IPv4 address: 3.135.235.234 | open address

Private IPv4 addresses: 172.31.26.229

Public IPv4 DNS: ec2-3-135-235-234.us-east-2.compute.amazonaws.com | open address

Private IPv4 DNS: ip-172-31-26-229.us-east-2.compute.internal

Elastic IP addresses: -

VPC ID: vpc-4e46e525

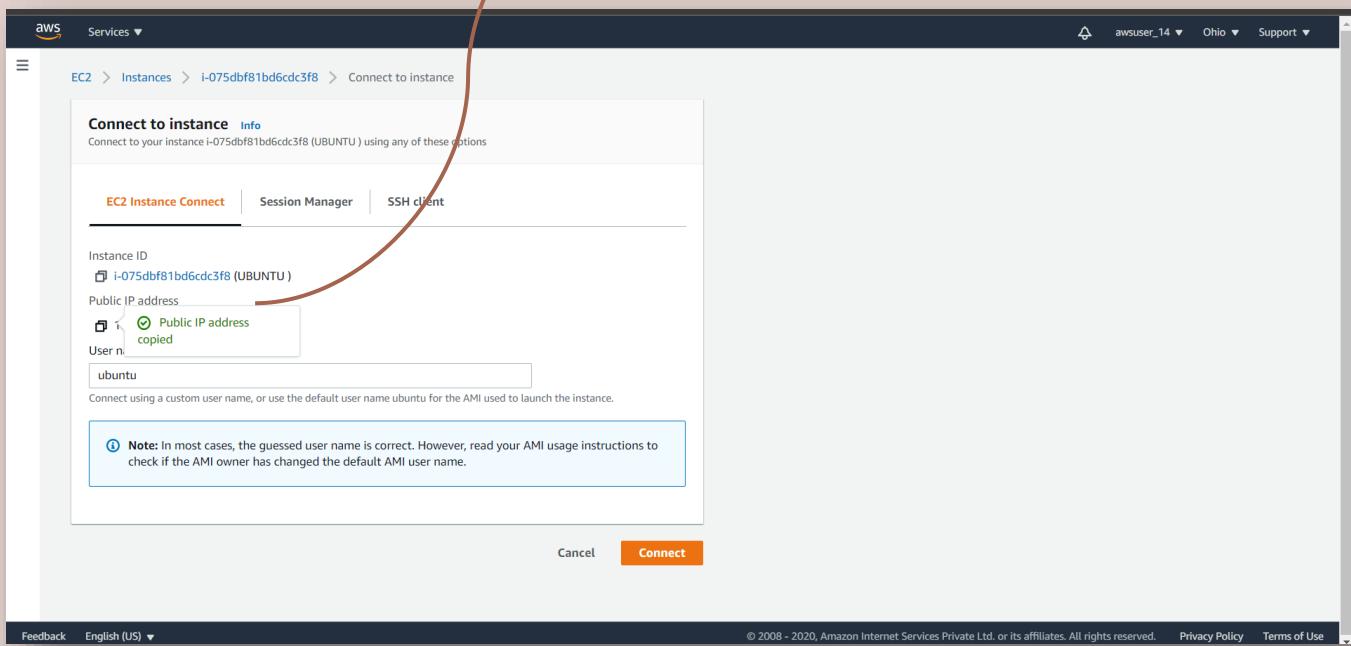
By Selecting Public IPV4 ADDRESS ...

PROJECT- 02

➤ Deploying a web server in Windows instance using Nginx server.

Steps-

1. Create a windows instance using AMI: Ubuntu Server 18.04 LTS (HVM) .



2. Launch the Ubuntu instance.
3. Install Nginx web server using bash

```

Preparing to unpack .../12-libnginx-mod-http-xslt-filter_1.18.0-0ubuntu1_amd64.deb ...
Unpacking libnginx-mod-http-xslt-filter (1.18.0-0ubuntu1) ...
Preparing to unpack .../13-libnginx-mod-mail_1.18.0-0ubuntu1_amd64.deb ...
Unpacking libnginx-mod-mail (1.18.0-0ubuntu1) ...
Selecting previously unselected package libnginx-mod-stream.
Preparing to unpack .../14-libnginx-mod-stream_1.18.0-0ubuntu1_amd64.deb ...
Unpacking libnginx-mod-stream (1.18.0-0ubuntu1) ...
Selecting previously unselected package nginx-core.
Preparing to unpack .../15-nginx-core_1.18.0-0ubuntu1_amd64.deb ...
Unpacking nginx-core (1.18.0-0ubuntu1) ...
Selecting previously unselected package nginx.
Preparing to unpack .../16-nginx_1.18.0-0ubuntu1_all.deb ...
Unpacking nginx (1.18.0-0ubuntu1) ...
Setting up libxml2:amd64 (1:3.5.12-1) ...
Setting up nginx-common (1.18.0-0ubuntu1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service -> /lib/systemd/system/nginx.service.
Setting up libjbig2:amd64 (2.1-3.1build1) ...
Setting up libnginx-mod-http-xslt-filter (1.18.0-0ubuntu1) ...
Setting up fonts-dejavu-core (2.37-1) ...
Setting up libjpeg-turbo8:amd64 (2.0.3-0ubuntu1.20.04.1) ...
Setting up libjpeg8:amd64 (8c-2ubuntu8) ...
Setting up libnginx-mod-mail (1.18.0-0ubuntu1) ...
Setting up fontconfig-config (2.13.1-2ubuntu3) ...
Setting up libnginx-mod-stream (1.18.0-0ubuntu1) ...
Setting up libtiff5:amd64 (4.1.0+git191117-2build1) ...
Setting up libfontconfig1:amd64 (2.13.1-2ubuntu3) ...
Setting up libgd3:amd64 (2.2.5-5.2ubuntu2) ...
Setting up libnginx-mod-http-image-filter (1.18.0-0ubuntu1) ...
Setting up nginx-core (1.18.0-0ubuntu1) ...
Setting up nginx (1.18.0-0ubuntu1) ...
Processing triggers for ufw (0.36-6) ...
Processing triggers for systemd (245.44ubuntu3.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9) ...
ubuntu@ip-172-31-20-103:~$ 

```

i-075dbf81bd6cdc3f8 (UBUNTU)
Public IPs: 18.221.176.86 Private IPs: 172.31.20.103

Simply copy the command below and paste in the bash to install the Nginx web server.

sudo apt-get -y update

sudo apt-get -y install nginx

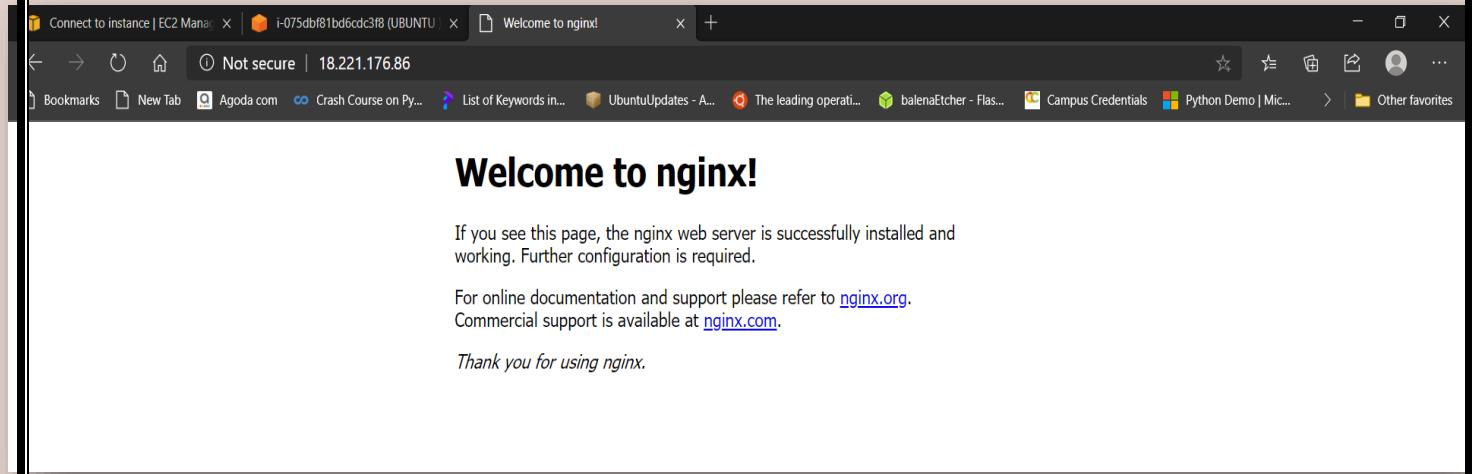
Instances (1/3) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm State	Availability zone	Public IPv4 DNS	Public IP
UBUNTU	i-075dbf81bd6cdc3f8	Running	t2.micro	2/2 check...	No alarm +	us-east-2b	ec2-18-221-176-86....	18.221...
UBUNTU	i-0da95d8a885efcb31	Terminated	t2.micro	-	No alarm +	us-east-2b	-	-
NAME	i-0fe404e77107-00ba	Terminated	t2.micro	-	No alarm +	us-east-2b	-	-

Instance: i-075dbf81bd6cdc3f8 (UBUNTU)

Details	Security	Networking	Storage	Status Checks	Monitoring	Tags
Instance summary						
Instance ID i-075dbf81bd6cdc3f8 (UBUNTU)	Public IPv4 address 18.221.176.86 open address	Private IPv4 addresses 172.31.20.103				
Instance state Running	Public IPv4 DNS ec2-18-221-176-86.us-east-2.compute.amazonaws.com open address	Private IPv4 DNS ip-172-31-20-103.us-east-2.compute.internal				
Instance type t2.micro	Elastic IP addresses -	VPC ID vpc-4e46e525				
IAM Role -	Subnet ID subnet-0f747425					

Output- verify successfully the installation of nginx.



PROJECT-03

➤ Working with volumes.

--Steps--

1. Create a windows machine

The screenshot shows the AWS EC2 Instances page. A green banner at the top indicates "Password Decryption Successful" for instance i-093274e5349f67ef0. The main table lists one instance named "VOLUMEIN...". The instance details pane shows the following configuration:

Platform	AMI ID	Monitoring
windows	ami-0ca69a9d06da3835d	disabled
Platform details	AMI name	Termination protection
Windows	Windows_Server-2019-English-Full-Base-2020.09.09	Disabled
Launch time	AMI location	Lifecycle
Fri Oct 09 2020 00:24:11 GMT+0530 (India Standard Time) (7 minutes)	amazon/Windows_Server-2019-English-Full-Base-2020.09.09	normal
Stop-hibernate behavior	AMI Launch index	Key pair name
disabled	0	AERA
State transition reason	Credit specification	Kernel ID
	standard	

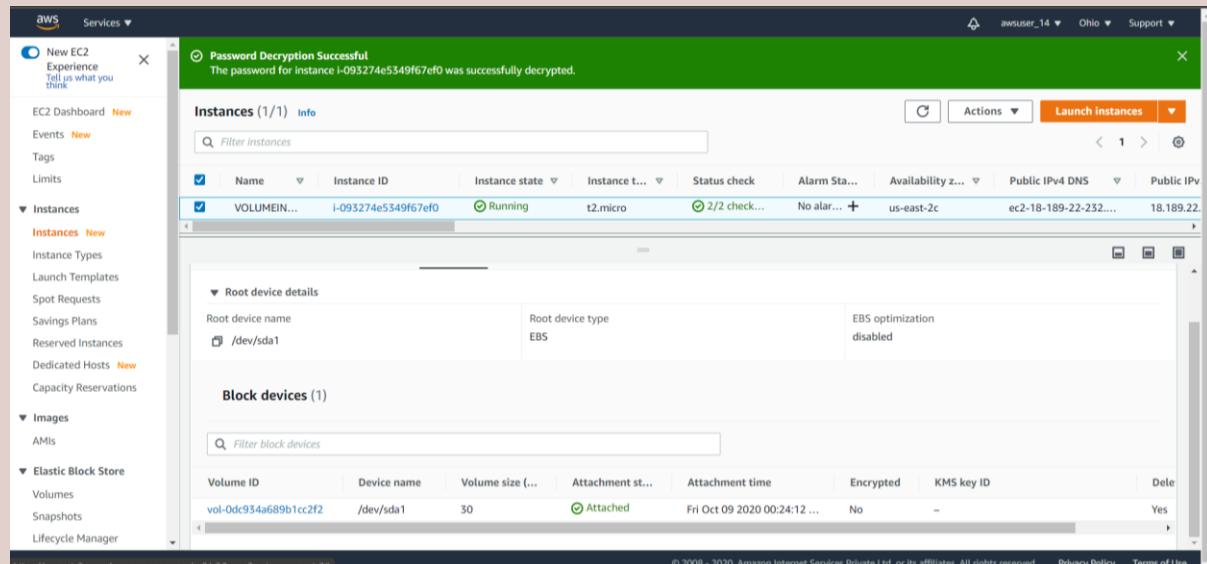
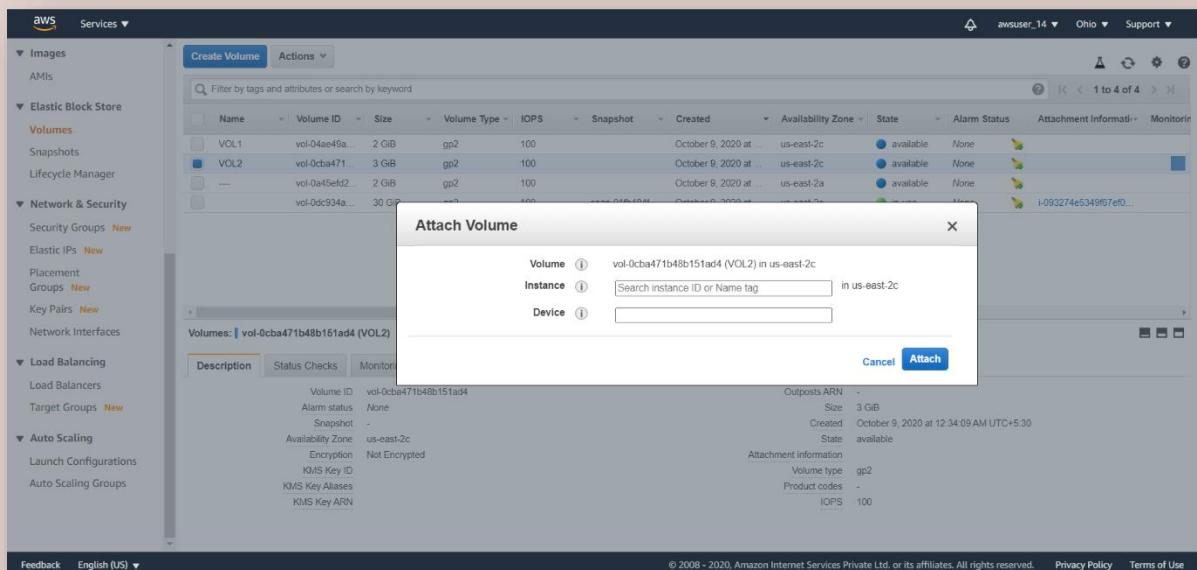
2. Create a volume in the same region as the windows machine...

The screenshot shows the "Create Volume" page. A green success message box displays "Volume created successfully" with Volume ID vol-0cba471b48b151ad4. A "Close" button is visible at the bottom right.

The screenshot shows the "Create Volume" page again. Another green success message box displays "Volume created successfully" with Volume ID vol-04ae49a3bafe01fc. A "Close" button is visible at the bottom right.

- ✓ CREATE THE VOLUME IN SAME EXACT REGION IN AVAILABILITY ZONE.
- ✓ Once created the volume or change the type but you can't change the availability zone.

3. Attach the volume to the windows machine...



Volume is attached

Name	Volume ID	Size	Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Information	Monitor
VOL1	vol-04ae49a...	2 GiB	gp2	100		October 9, 2020 at ...	us-east-2c	available	None		i-093274e5349f67ef0...
VOL2	vol-0ca1a71...	3 GiB	gp2	100		October 9, 2020 at ...	us-east-2c	in-use	None		i-093274e5349f67ef0...
VOL3	vol-04f5ef02...	2 GiB	gp2	100		October 9, 2020 at ...	us-east-2a	available	None		i-093274e5349f67ef0...
VOL4	vol-0dc934a...	30 GiB	gp2	100	snap-01fb404f...	October 9, 2020 at ...	us-east-2c	in-use	None		i-093274e5349f67ef0...

4. From server manager bring the volume online..

- Then going to server management and then in that the attached volume was activated.
- Then, in all file server go to disk bring that online, and then build online then add a new volume and then go on creating...
- Then in go to file manager and we can
new drive 3 of 3gb available would be 2.97.

-Then now terminate the instances----

Name	Instance ID	Instance state	Instance t...	Status check	Alarm Sta...	Availability z...	Public IPv4 DNS	Public IPv
VOLUMEIN...	i-093274e5349f67ef0	Terminated	t2.micro	-	No alarm	us-east-2c	-	-

All the volumes are now available now...

The screenshot shows the AWS EBS Volumes page. On the left, there's a navigation sidebar with links like EC2 Dashboard, Events, Tags, Instances, Images, and Network & Security. The main content area has tabs for 'Create Volume' and 'Actions'. A search bar at the top says 'Filter by tags and attributes or search by keyword'. Below it is a table with columns: Name, Volume ID, Size, Volume Type, IOPS, Snapshot, Created, Availability Zone, State, Alarm Status, Attachment Information, and Monitor. Three volumes are listed:

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status	Attachment Information	Monitor
VOL1	vol-04ae49a3bafe...fc	2 GiB	gp2	100		October 9, 2020 at ...	us-east-2c	available	None		
VOL2	vol-0cba471...c	3 GiB	gp2	100		October 9, 2020 at ...	us-east-2c	available	None		
—	vol-0a45efd2...c	2 GiB	gp2	100		October 9, 2020 at ...	us-east-2a	available	None		

Below the table, a modal window is open for 'Volumes: vol-04ae49a3bafe...fc (VOL1)'. It has tabs for Description, Status Checks, Monitoring, and Tags. The Description tab shows details like Volume ID, Volume Type (gp2), Size (2 GiB), Created (October 9, 2020 at 12:34:37 AM UTC+5:30), and State (available). The Tags tab is empty.

Modify the volume-

The screenshot shows the same AWS EBS Volumes page as before, but with a different focus. The 'Actions' dropdown menu is open over the first volume, VOL1. The menu items are: Modify Volume, Create Snapshot, Delete Volume, Attach Volume, Detach Volume, Force Detach Volume, Change Auto-Enable I/O Setting, and Add/Edit Tags. The rest of the page remains the same, showing the three volumes and their details.

EC2 Dashboard - New

Events New

Tags

Limits

Instances New

Instances Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups New

Feedback English (US) ▾

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	Attachment Information	Monitor
VOL1	vol-04ae49a3bafecdf1fc	2 GiB	gp2	100	-	October 9, 2020 at 12:34:37 AM UTC+5:30	us-east-2c	available	None		
VOL2	vol-0cba471...	3 GiB	gp2	100	-	October 9, 2020 at 12:34:37 AM UTC+5:30	us-east-2c	available	None		
---	vol-0a45ef2...	2 GiB	gp2	100	-	October 9, 2020 at 12:34:37 AM UTC+5:30	us-east-2a	available	None		

Volumes: vol-04ae49a3bafecdf1fc (VOL1)

Description Status Checks Monitoring Tags

Volume ID: vol-04ae49a3bafecdf1fc

Alarm status: None

Snapshot: -

Availability Zone: us-east-2c

Encryption: Not Encrypted

KMS Key ID: -

KMS Key Aliases: -

KMS Key ARN: -

Outputs ARN: -

Size: 2 GiB

Created: October 9, 2020 at 12:34:37 AM UTC+5:30

State: available

Attachment information:

- Volume type: gp2
- Product codes: -
- IOPS: 100

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• Modified volume was till 5gb

Bookmarks New Tab Agoda.com Crash Course on Py... List of Keywords in... UbuntuUpdate - A... The leading operat... balenaEtcher - Flas... Campus Credentials Python Demo | Mic... Other favorites

awsuser_14 ▾ Ohio ▾ Support ▾

EC2 Dashboard - New

Events New

Tags

Limits

Instances New

Instances Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups New

Feedback English (US) ▾

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	Attachment Information	Monitor
VOL1	vol-04ae49a3bafecdf1fc	5 GiB	io1	100	-	October 9, 2020 at 12:34:37 AM UTC+5:30	us-east-2c	available	None		
VOL2	vol-0cba471...	3 GiB	gp2	100	-	October 9, 2020 at 12:34:37 AM UTC+5:30	us-east-2c	available	None		
---	vol-0a45ef2...	2 GiB	gp2	100	-	October 9, 2020 at 12:34:37 AM UTC+5:30	us-east-2a	available	None		

Volumes: vol-04ae49a3bafecdf1fc (VOL1)

Description Status Checks Monitoring Tags

Volume ID: vol-04ae49a3bafecdf1fc

Alarm status: None

Snapshot: -

Availability Zone: us-east-2c

Encryption: Not Encrypted

KMS Key ID: -

KMS Key Aliases: -

KMS Key ARN: -

Outputs ARN: -

Size: 5 GiB

Created: October 9, 2020 at 12:34:37 AM UTC+5:30

State: available - optimizing (99%)

Attachment information:

- Volume type: io1
- Product codes: -
- IOPS: 100

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✓ Then delete all the volumes ,otherwise charges would be apply .

PROJECT-04

➤Working with Elastic IP's

1.Create first linux instance.

The screenshot shows the AWS EC2 Management Console. The left sidebar is collapsed. The main area displays a table of instances. One instance is selected, highlighted with a blue border. The instance details are shown in a modal window below. The instance is named "linux-elastic...", has an Instance ID of i-0847d4465c199de03, is in a "Running" state, and is a t2.micro type. It is associated with a Public IPv4 DNS of ec2-52-15-243-15.us-east-2.compute.amazonaws.com and a Private IPv4 address of 172.31.27.76. The VPC ID is vpc-4e46e525. The modal window also includes tabs for Details, Security, Networking, Storage, Status Checks, Monitoring, and Tags.

The screenshot shows the AWS EC2 Management Console with the "Instances" section expanded. The left sidebar is collapsed. The main area shows the "Instance summary" for the instance i-0847d4465c199de03. The instance is named "linux-elastic ip". The summary table includes fields for Instance ID (i-0847d4465c199de03), Instance state (Running), Instance type (t2.micro), IAM Role (none), Public IPv4 address (52.15.243.15), Public IPv4 DNS (ec2-52-15-243-15.us-east-2.compute.amazonaws.com), Private IPv4 address (172.31.27.76), Private IPv4 DNS (ip-172-31-27-76.us-east-2.compute.internal), and VPC ID (vpc-4e46e525). A callout box highlights the Public IPv4 address. Below the summary is a "AWS Compute Optimizer" opt-in banner. The modal window below the summary includes tabs for Details, Security, Networking, Storage, Monitoring, and Tags.

Step1: Install an Apache Server

Switch to the root user

```
sudo su
```

A screenshot of a terminal window within a web browser. The URL is <https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0847d4465c199de03>. The terminal shows the command `sudo su` being entered, followed by a password prompt. The background of the terminal shows the Amazon Linux 2 AMI logo and some system status information.

Step2: Now run the updates using the following command:

```
yum -y update
```

Step3: Once completed, let's install and run an apache server

Step1: Install the Apache webserver:

```
yum install httpd
```

When prompted, press "Y" to confirm.

Step2: Start the webserver

```
systemctl start httpd
```

Step3: Now enable httpd:

```
systemctl enable httpd
```

```

Connect to instance | EC2 Manager | i-0847d4465c199de03 (linux-elastic ip) | + https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0847d4465c199de03
Bookmarks New Tab Agoda.com Crash Course on Py... List of Keywords in... UbuntuUpdates - A... The leading operati... balenaEtcher - Flas... Campus Credentials Python Demo | Mic... Other favorites
Verifying : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
Verifying : httpd-tools-2.4.46-1.amzn2.x86_64
Verifying : mailcap-2.1.41-2.amzn2.x86_64
Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch
Verifying : httpd-2.4.46-1.amzn2.x86_64
Installed:
httpd.x86_64 0:2.4.46-1.amzn2
Dependency Installed:
apr.x86_64 0:1.6.3-5.amzn2.0.2      apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2      generic-logos-httpd.noarch 0:18.0.0-4.amzn2
httpd-filesystem.noarch 0:2.4.46-1.amzn2  httpd-tools.x86_64 0:2.4.46-1.amzn2  mailcap.noarch 0:2.1.41-2.amzn2  mod_http2.x86_64 0:1.15.14-2.amzn2
Complete!
[root@ip-172-31-27-76 ec2-user]# systemctl start httpd
[root@ip-172-31-27-76 ec2-user]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-27-76 ec2-user]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2020-10-07 18:04:37 UTC; 1min 4s ago
       Docs: man:httpd.service(8)
 Main PID: 12847 (httpd)
 Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec: 0 B/sec"
 CGroup: /system.slice/httpd.service
         └─12847 /usr/sbin/httpd -DFOREGROUND
             ├─12848 /usr/sbin/httpd -DFOREGROUND
             ├─12849 /usr/sbin/httpd -DFOREGROUND
             ├─12850 /usr/sbin/httpd -DFOREGROUND
             ├─12851 /usr/sbin/httpd -DFOREGROUND
             └─12852 /usr/sbin/httpd -DFOREGROUND
Oct 07 18:04:37 ip-172-31-27-76.us-east-2.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 07 18:04:37 ip-172-31-27-76.us-east-2.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-27-76 ec2-user]#

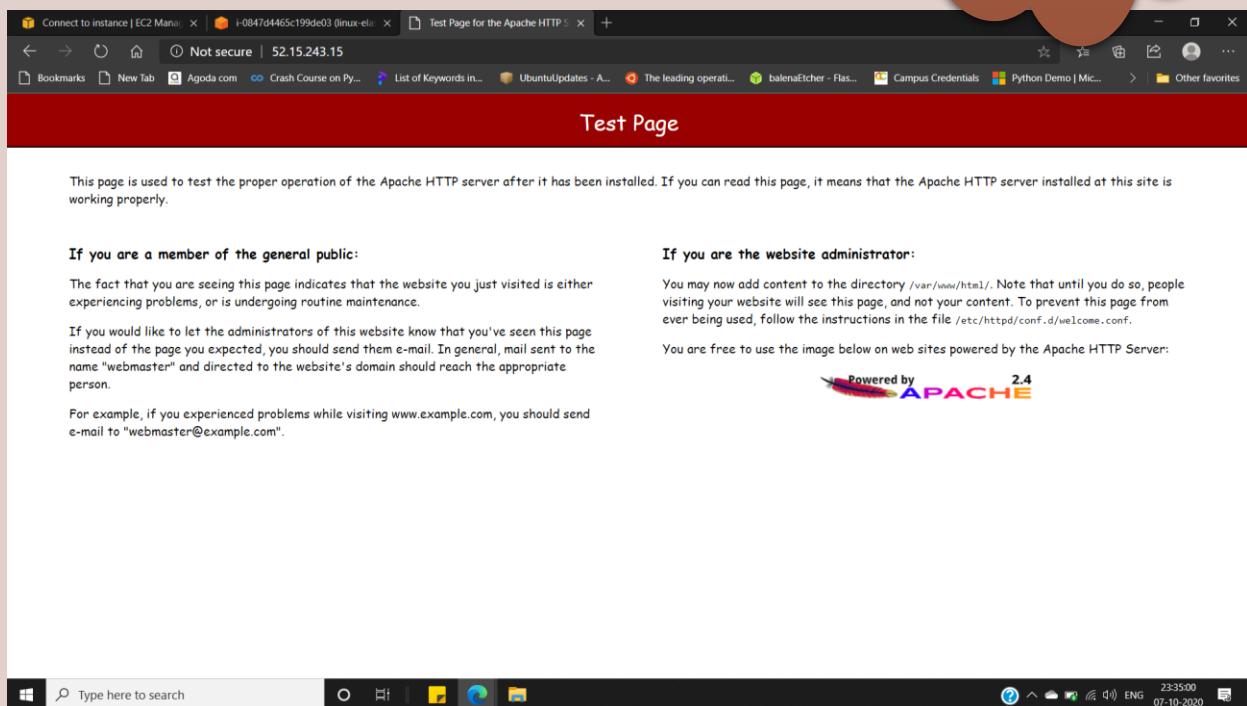
```

i-0847d4465c199de03 (linux-elastic ip)
Public IPs: 52.15.243.15 Private IPs: 172.31.27.76

Step4: Check the web server status

systemctl status httpd

We can see
the active
status is
running.



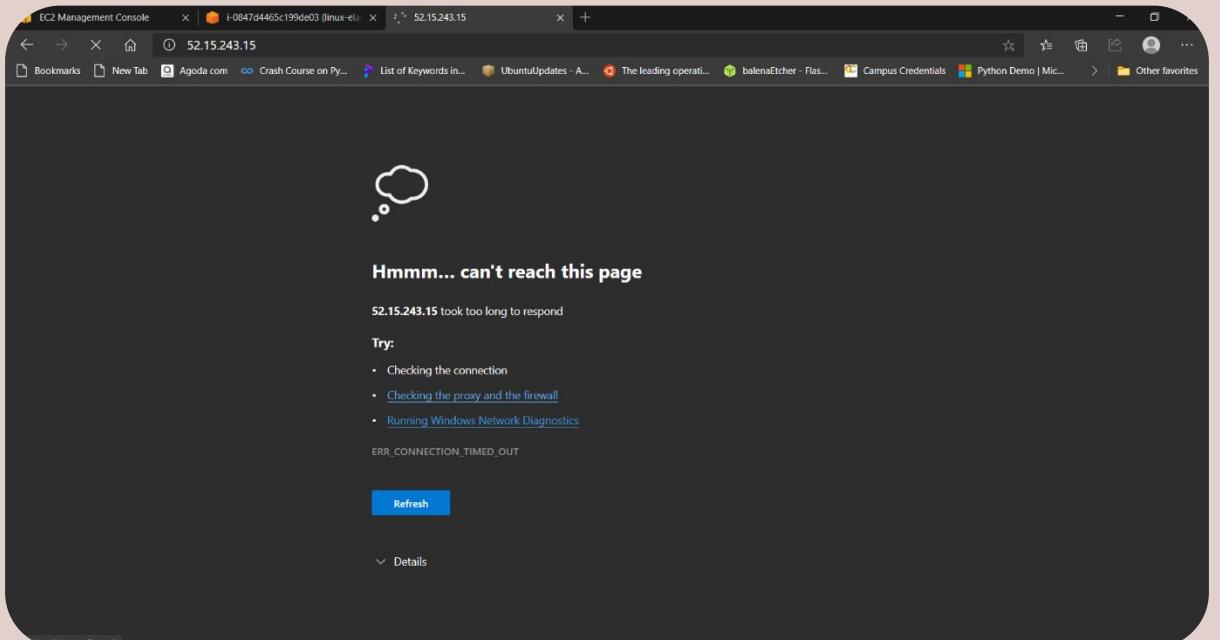
The screenshot shows the AWS EC2 console under the 'Elastic IP addresses' section. A single static IP address, 18.188.107.49, is listed. The 'Allocate Elastic IP address' button is visible at the top right. Below the table, there's a summary card for the IP address.

- Then allocate Elastic IP address

The screenshot shows the AWS EC2 console after associating the IP address 18.188.107.49 with instance i-0847d4465c199de03. A success message is displayed: 'Elastic IP address associated successfully. Elastic IP address 18.188.107.49 has been associated with Instance i-0847d4465c199de03'. The IP details are now listed in the table, including the allocation ID and association ID.

If IP are
idle
, then we
would get
charge

- Now, we are using the instances from resource type....
- And patchy tomcat is running.
- Then, choose an instance running
- Select ID, and check the reassociation box....
- Then **ASSOCIATE IT...**
- Then in Elastic IP address content, the instance **ID is allocated.....**
- Refresh the same public ip ...then output will be error...



- Then go to instances in Public IPV4 address and open it then there public IP is changed....

The screenshot shows the AWS EC2 Instances details page for instance i-0847d4465c199de03. The instance is running and has a Public IPv4 address of 18.188.107.49. Other details include Private IPv4 address 172.31.27.76, Public IPv4 DNS ec2-18-188-107-49.us-east-2.compute.amazonaws.com, Private IPv4 DNS ip-172-31-27-76.us-east-2.compute.internal, VPC ID vpc-4e46e525, and Subnet ID subnet-0f747475.

- So, you should able to reach it with new Elastic IP

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.

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 APACHE 2.4

- Then firstly terminate your instances ...
- And now go to Elastic IP Console and Select RELEASE Elastic IP address..

The screenshot shows the AWS Elastic IP addresses console. On the left, there's a sidebar with various AWS services like Instance Types, Launch Templates, and Network & Security. The main area displays a table of Elastic IP addresses, with one row selected: "static IP" (Allocated IPv4 address: 18.188.107.49, Type: Public IP, Allocation ID: eipalloc-00870a36cffd30a6, Associated instance ID: None, Private IP address: 172.31.27.76). A modal dialog titled "Release Elastic IP addresses" is open over the table. It contains a message: "If you release the following Elastic IP addresses, they will no longer be allocated to your account and you can no longer associate them with your resources." Below this is a list of the selected IP address: "18.188.107.49". At the bottom of the dialog are two buttons: "Cancel" and a prominent orange "Release" button.

i.e-it goes to Shared pool...

This screenshot shows the same AWS Elastic IP addresses console as the previous one, but with a green success message banner at the top: "Elastic IP addresses released. Elastic IP addresses 18.188.107.49". An arrow points from the text above to this banner. The main table below is empty, displaying the message "No Elastic IP addresses found in this Region". The rest of the interface is identical to the first screenshot, including the sidebar and the bottom navigation bar.

PROJECT-05

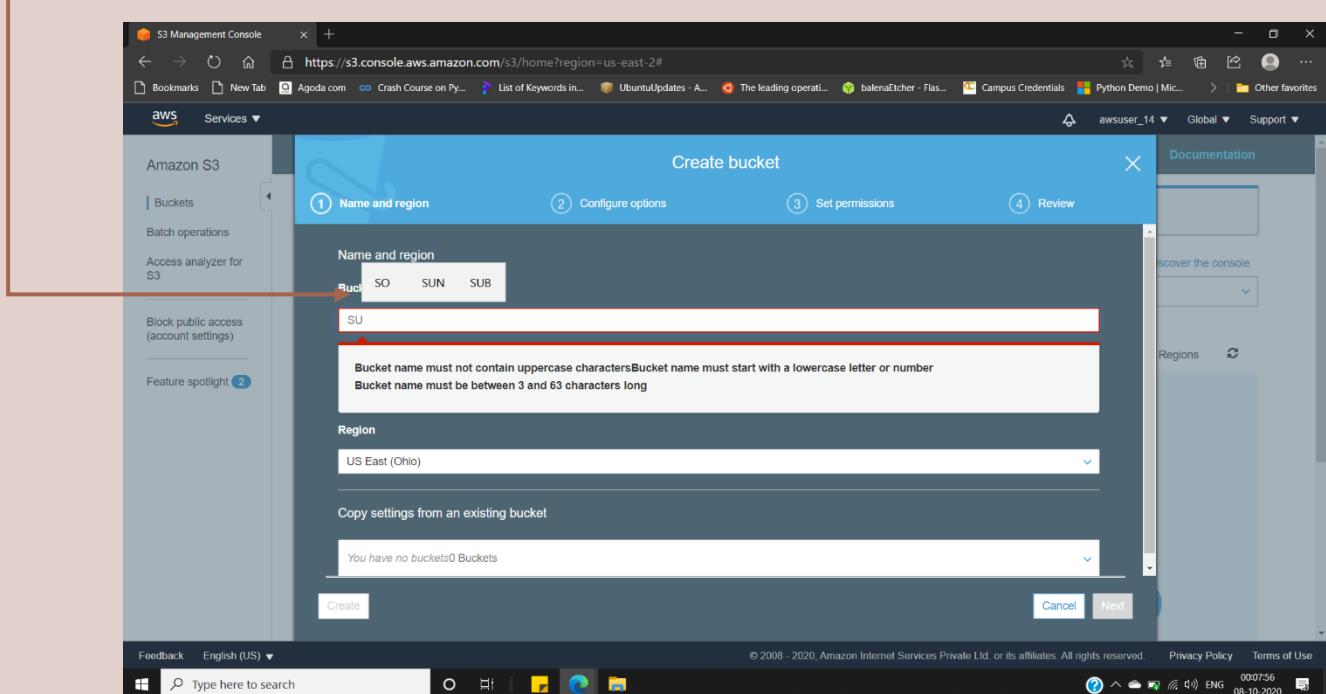
➤Working with S3

Steps :-

a. working with S3-.jp

-Firstly create the Bucket...

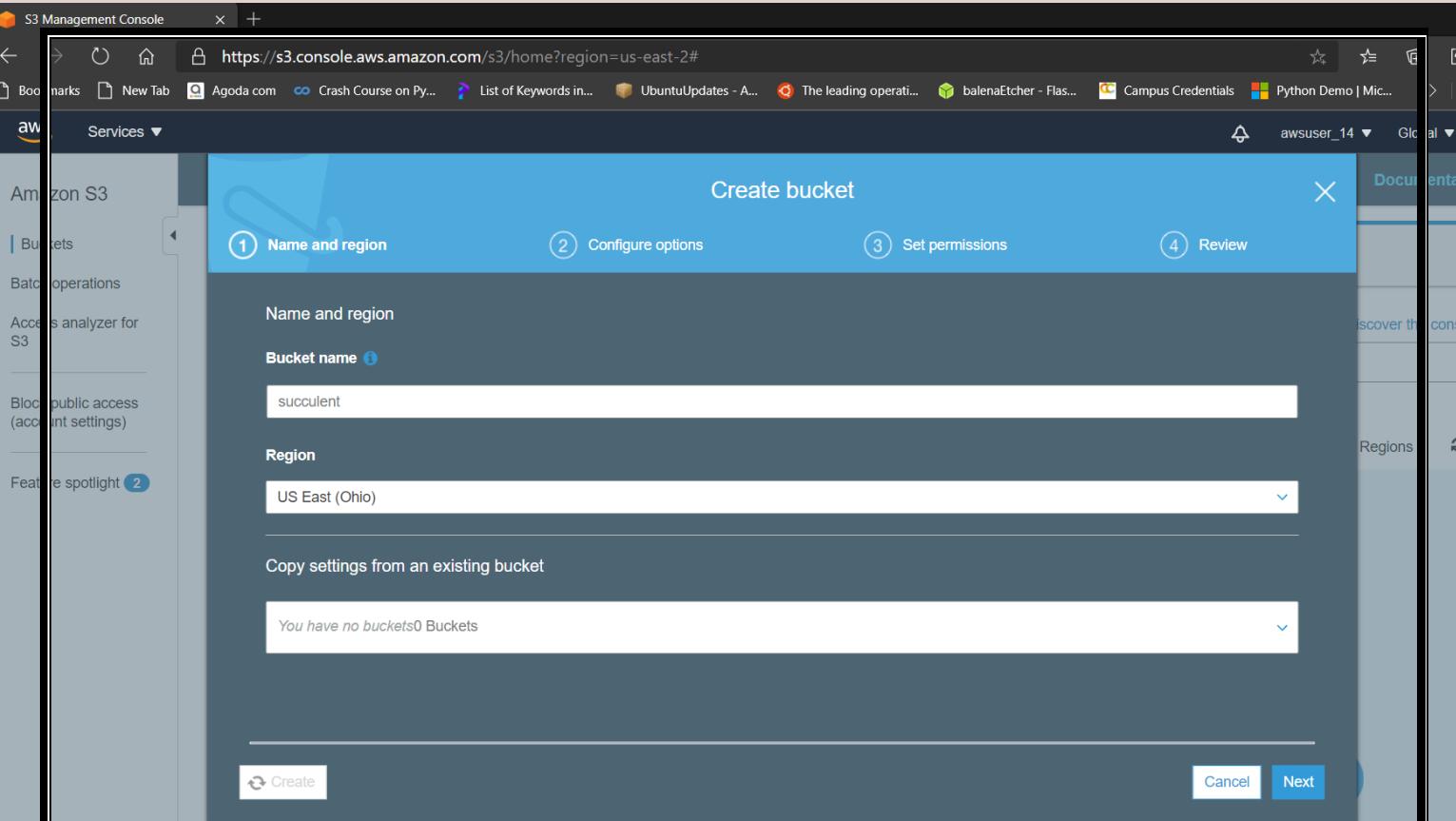
Name should be unique....



Now creating bucket....

Bucket name - 1.succulent

2.succulent04



- Now upload the file ,in the .jpg format..
- The file uploaded is drops-3417046.jpg.

The screenshot shows the 'succulent04' bucket overview in the AWS S3 Management Console. The file 'drops-3417046.jpg' is listed with the following details:

Name	Last modified	Size	Storage class
drops-3417046.jpg	Oct 8, 2020 12:13:19 AM GMT+0530	1.0 MB	Standard

At the bottom, the operations status is shown as 0 in progress, 1 Success, 0 Error.

Welcome to Amazon S3. Create new buckets or select an existing bucket to view and configure properties.

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.

S3 buckets

Search for buckets

All access types

+ Create bucket Edit public access settings Empty Delete

2 Buckets 1 Regions

Bucket name	Access	Region	Date created
succulent04	Objects can be public	US East (Ohio)	Oct 8, 2020 12:11:34 AM GMT+0530
succulent	Bucket and objects not public	US East (Ohio)	Oct 8, 2020 12:10:42 AM GMT+0530

Operations 0 In progress 1 Success 0 Error

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- Then now, go to overview and there is objectURL-open the link...

https://s3.console.aws.amazon.com/s3/object/succulent04/drops-3417046.jpg?region=us-east-2&tab=overview

Overview Properties Permissions Select from

Open Download Download as Make public Copy path

Owner
c888b52aebe34f09ee7ab19cfbb43e0edba8c0ee7a8dedfbe9674478393b983d

Last modified
Oct 8, 2020 12:13:19 AM GMT+0530

Etag
cd3c9f922f8c3697906a205a41c6bf

Storage class
Standard

Server-side encryption
None

Size
1.0 MB

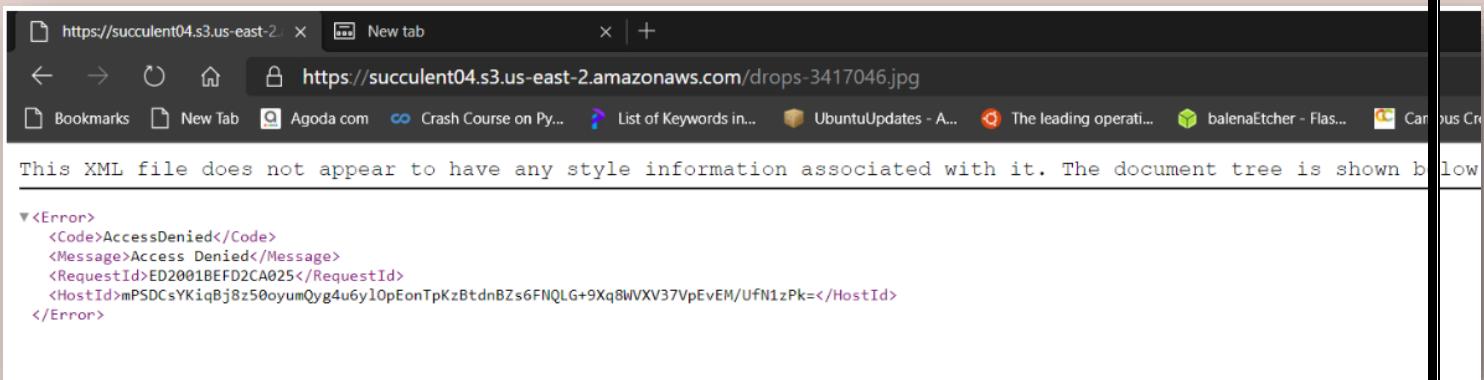
Key
drops-3417046.jpg

Object URL
<https://succulent04.s3.us-east-2.amazonaws.com/drops-3417046.jpg>

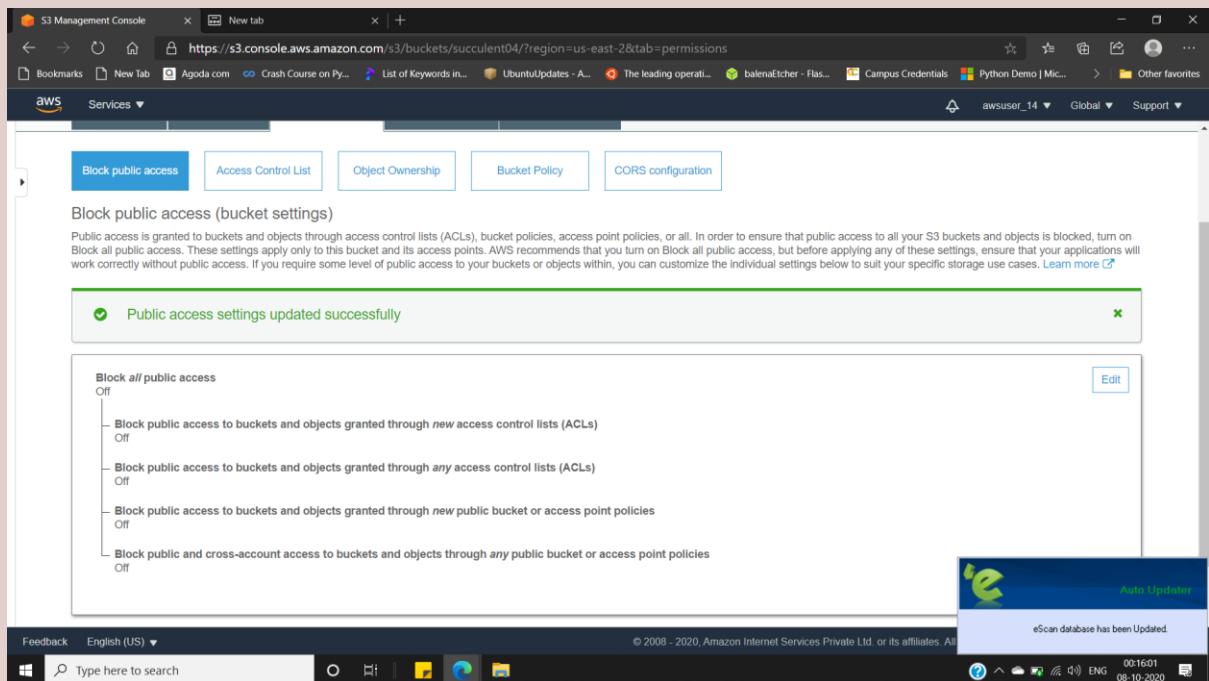
Operations 0 In progress 1 Success 0 Error

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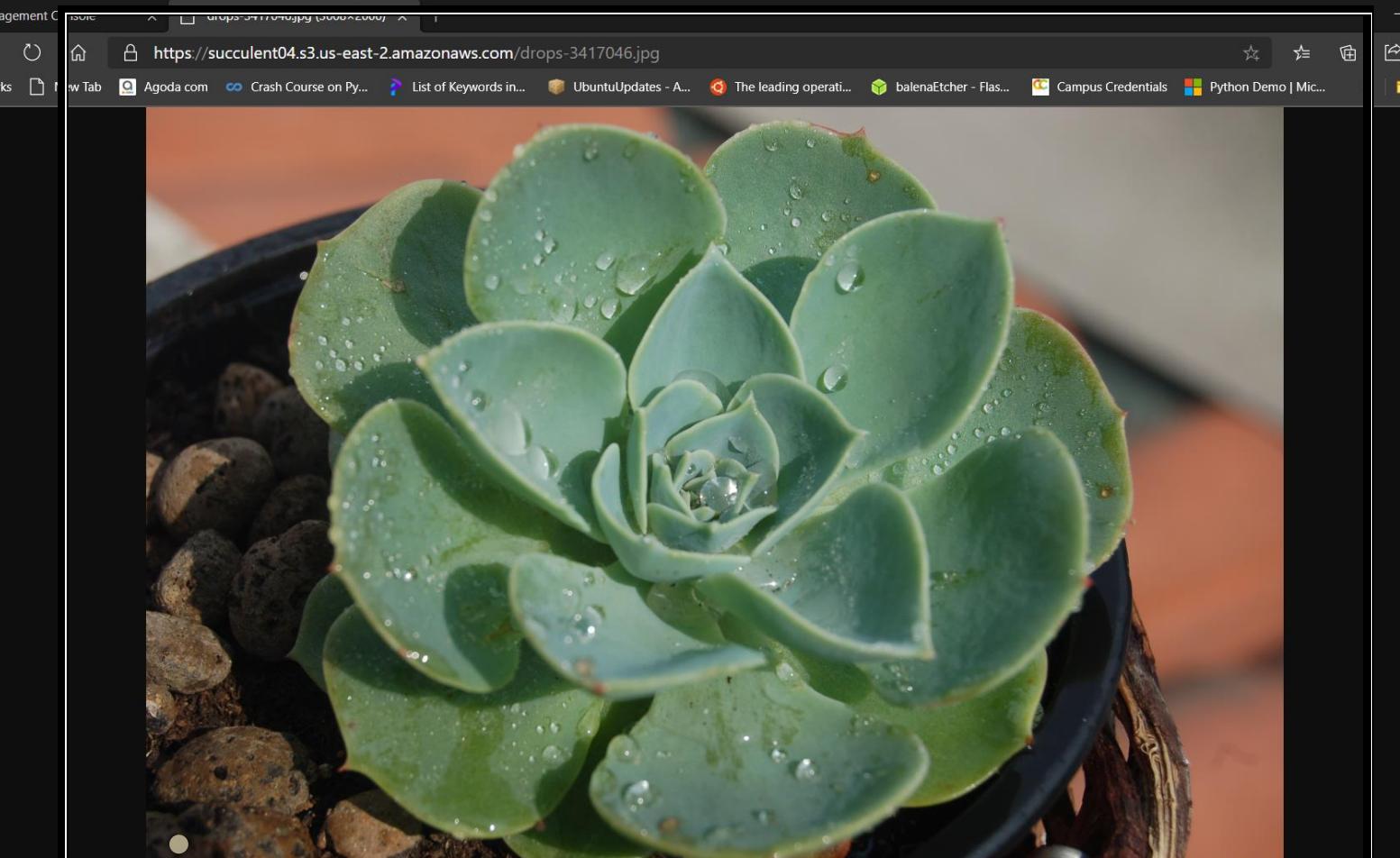
- Then file would be not visible, because it is private....



- Give public access

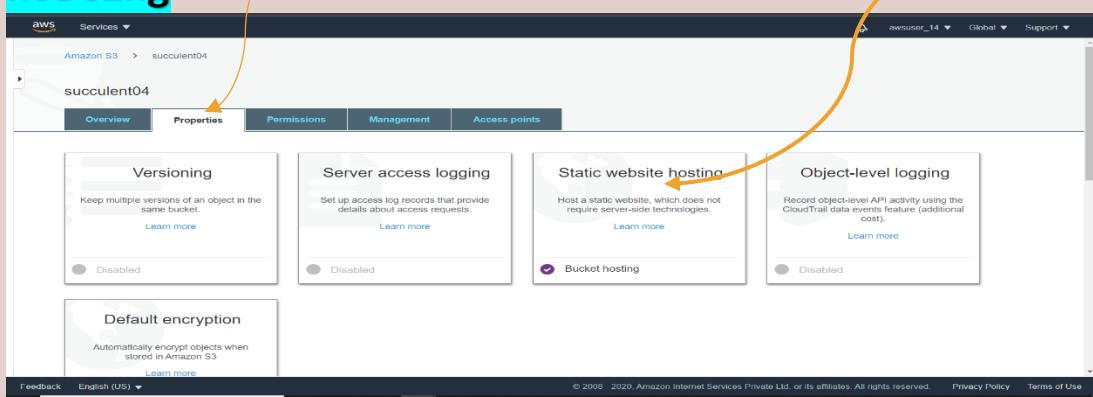


THEN,



S3-Access points

- Then go to properties and select the static web hosting



- Used previous bucket to host a website and then **CREATE** a text file with -“**index.txt,error.text**”
- Add some content in both the file.
- Click on save

Then go to **overview** tab and upload both the text documents...

The screenshot shows the AWS S3 console with the 'succulent04' bucket selected. The 'Overview' tab is active. The bucket contains three objects:

Name	Last modified	Size	Storage class
drops-3417046.jpg	Oct 8, 2020 12:13:19 AM GMT+0530	1.0 MB	Standard
error.txt.txt	Oct 8, 2020 12:31:38 AM GMT+0530	43.0 B	Standard
index.txt.txt	Oct 8, 2020 12:31:41 AM GMT+0530	122.0 B	Standard

- Then now,go to properties tab and there static web hosting and choose the **end point**.
- OPEN THE LINK**

The screenshot shows the AWS S3 Management Console with the 'succulent04' bucket selected. The 'Properties' tab is active. A modal window titled 'Static website hosting' is open, showing the following details:

- Endpoint: <http://succulent04.s3-website.us-east-2.amazonaws.com>
- Index document: Index.txt
- Error document: error.txt
- Redirection rules (optional): (empty)
- Redirect requests: (unchecked)
- Disable website hosting: (unchecked)

- MAKE PUBLIC TO VISIBLE THE FILE
- AND THEN CLICK on the Object URL

S3 Management Console | https://succulent04.s3.us-east-2.amazonaws.com/index.txt?region=us-east-2&tab=overview

Amazon S3 > succulent04 > index.txt

index.txt Latest version

Overview Properties Permissions Select from

Open Download Download as Make public Copy path

Owner: c888b52aebe34f0ee7ab19cfb43e0edba8c0ee7a8dedfbe9674478393b983d

Last modified: Oct 8, 2020 12:31:41 AM GMT+0530

Etag: 4ce71e7da720c64c37b926c9abf8f5cd

Storage class: Standard

Server-side encryption:

Size: 122.0 B

Key: index.txt.txt

Object URL: <https://succulent04.s3.us-east-2.amazonaws.com/index.txt.txt>

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OUTPUT

I have one eye
see near and far
i hold the moments you treasure and the things that make you weep.....
WHO AM I????

index.txt - Notepad

I have one eye
see near and far
i hold the moments you treasure and the things that make you weep.....
WHO AM I????

Ln 4, Col 13 100% Windows (CRLF) UTF-8

The screenshot shows the AWS S3 console and a web browser side-by-side.

AWS S3 Console:

- Path: Amazon S3 > succulent04 > error.txt.txt
- File Name: error.txt
- Latest version
- Overview tab selected
- Actions: Open, Download, Download as, Make public, Copy path
- Owner: c868b52aeba34f09ee7ab19cfb43e0edba8c0ee7a8dedfbe9674478393b983d
- Last modified: Oct 8, 2020 12:31:38 AM GMT+0530
- Etag: b860487d802c0b1bdec8270c7e6b6faf
- Storage class: Standard
- Server-side encryption
- Size: 43.0 B
- Key: error.txt.txt
- Object URL: <https://succulent04.s3.us-east-2.amazonaws.com/error.txt.txt>

Browser Window:

- Address bar: https://succulent04.s3.us-east-2.amazonaws.com/error.txt.txt
- Content of the page:

```
I shoot but never kills ....  
what am i?
```

An orange arrow points from the Object URL in the S3 console to the address bar in the browser window.

➤ Versioning

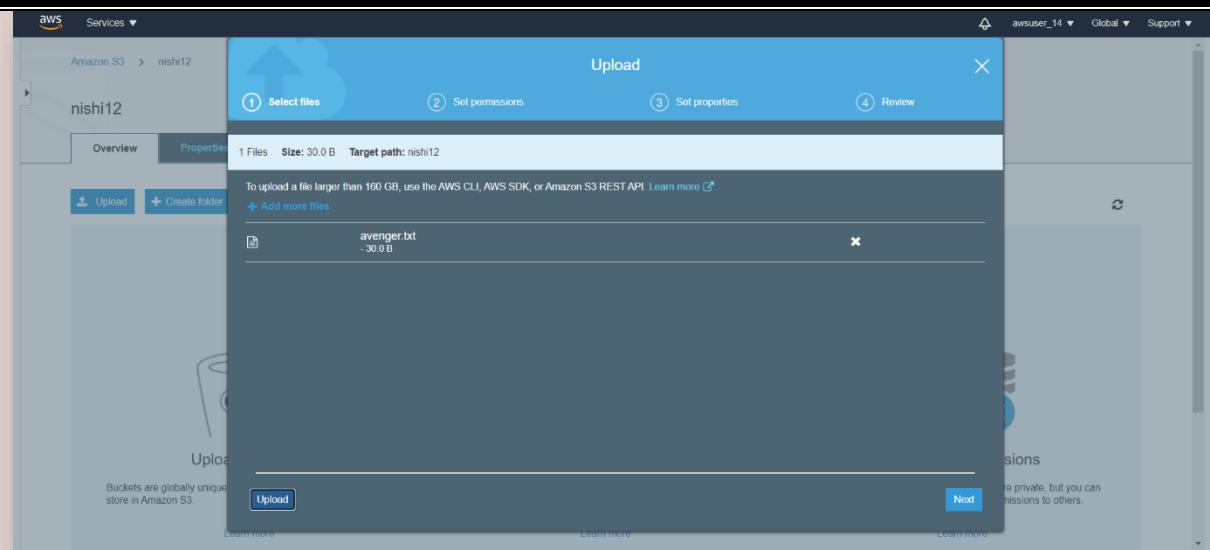
- In these now choose the same properties tab and then select the versioning...
- In that choose the **Enable** versioning..

The screenshot shows the AWS S3 Management Console with the URL <https://s3.console.aws.amazon.com/s3/buckets/succulent04/?region=us-east-2&tab=properties>. The 'Properties' tab is active. A modal dialog titled 'Versioning' is open, showing two options: 'Enable versioning' (radio button) and 'Suspend versioning' (radio button, which is selected). Below these are 'Object-level logging' and 'Default encryption' sections. The 'Suspend versioning' section includes a note: 'This suspends the creation of object versions for all operations but preserves any existing object versions.' At the bottom of the dialog are 'Cancel' and 'Save' buttons.

- Then create a new file -**avengers.txt** and add in a New Bucket-nishi12

The screenshot shows the AWS S3 Management Console with the URL <https://s3.console.aws.amazon.com/s3/>. The 'Buckets' tab is active. A message at the top says: 'Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. Learn more »'. Below is a search bar and a dropdown for 'All access types'. A table lists three buckets: 'nishi12' (highlighted), 'succulent', and 'succulent04'. The 'nishi12' row shows 'Bucket name' as 'nishi12', 'Access' as 'Bucket and objects not public', 'Region' as 'US East (Ohio)', and 'Date created' as 'Oct 8, 2020 12:10:38 AM GMT+0530'. The other two rows show similar details.

- Upload the text file...



The screenshot shows the AWS S3 console with a bucket named 'succulent04'. The 'Properties' tab is selected. The bucket contains five objects: 'avenger.txt', 'drops-3417046.jpg', 'error.txt.txt', 'index.txt.txt', and 'index.txt'. The objects are listed in a table with columns for Name, Last modified, Size, and Storage class. The storage class for all objects is Standard. The table shows 1 Success and 0 Error operations.

● versioning enable

The screenshot shows the AWS S3 console with a bucket named 'nishi12'. The 'Properties' tab is selected. Under the 'Versioning' section, it is shown that versioning is 'Enabled'. Other sections like 'Server access logging', 'Static website hosting', and 'Object-level logging' are also present. The 'Default encryption' section indicates automatic encryption. The 'Operations' bar at the bottom shows 1 in progress operation, 0 Success, and 0 Error.

- After creating the bucket, added that file in bucket-nishi12

Amazon S3 > nishi12

nishi12

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 US East (Ohio) ▾ Viewing 1 to 1

Name	Last modified	Size	Storage class
avenger.txt	Oct 8, 2020 1:05:42 AM GMT+0530	30.0 B	Standard

Viewing 1 to 1

Operations 0 In progress 1 Success 0 Error

- Then add some content in that same file and save it.
- But don't change the name of file.
- And then see in overview there is a option- show we will see the both file,of both new version.

Amazon S3 > nishi12

nishi12

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 US East (Ohio) ▾ Viewing 1 to 2

Name	Version ID	Last modified	Size	Storage class
avenger.txt		Oct 8, 2020 1:11:08 AM	119.0 B	Standard
	Oct 8, 2020 1:05:42 AM (Latest version)	Oct 8, 2020 1:05:42 AM	30.0 B	Standard

Viewing 1 to 2

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- Then choose the hide option before going back.
- And now again create a new content in that file and upload it .
- We will see the 3 versions,whichever we want we can choose that.

Name	Version ID	Last modified	Size	Storage class
avenger.txt		Oct 8, 2020 1:15:15 AM	—	—
	mJvJEEnkyLX0h8NUNegnfrntPGgioOWq			
	Oct 8, 2020 1:11:08 AM	Oct 8, 2020 1:11:08 AM	119.0 B	Standard
	ypXKjkpgjlcieBki0yfMxvugq0lhB6V9			
	Oct 8, 2020 1:05:42 AM	Oct 8, 2020 1:05:42 AM	30.0 B	Standard
u1Aq43IA.yT2cDX5Pw1e5iZA8u_ChoCA				

-Then download it which one we want

Output -

The screenshot shows the Amazon S3 console interface. At the top, there's a navigation bar with 'Amazon S3' and a dropdown menu. Below it, the bucket name 'nishi12' is displayed. A sub-menu bar includes 'Overview', 'Properties', 'Permissions', 'Management', and 'Access points'. A search bar with the placeholder 'Type a prefix and press Enter to search. Press ESC to clear.' is present. Below the search bar are buttons for 'Upload', '+ Create folder', 'Download', 'Actions', 'Versions', 'Hide', and 'Show'. The main area shows a table with one item:

Name	Last modified	Size	Storage class
avenger (1).xl	Oct 6, 2020 1:17:07 AM GMT+0530	119.0 B	Standard

Below the table, there are sections for 'Operations' (0 In progress, 2 Success, 0 Error) and links for 'Feedback', 'English (US)', 'Privacy Policy', and 'Terms of Use'. The footer contains copyright information: '© 2008–2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.'

A screenshot of a web browser window. The address bar shows 'https://www.google.com/search?q=Steve+Rogers+quote+about+passion'. The main content area displays a quote from Steve Rogers (Captain America):

just do WITH THE PASSION.....
I can do this all day.
• Steve Rogers, Captain America.

Then we can see all the file..

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with tabs for Overview, Properties, Permissions, Management, and Access points. Below that is a search bar with placeholder text "Type a prefix and press Enter to search. Press ESC to clear." Underneath the search bar are buttons for Upload, Create folder, Download, Actions (with dropdown options Hide and Show), Versions, and a status indicator "US East (Ohio) 2". A table follows, displaying four versions of an object named "avenger.txt". The columns are Name, Version ID, Last modified, Size, and Storage class. The table shows the latest version (Oct 8, 2020 1:17:07 AM) and three previous versions, including one marked as a delete marker (Oct 8, 2020 1:15:15 AM). At the bottom of the table, it says "Viewing 1 to 4". Below the table is a progress bar for operations, showing 0 In progress, 2 Success, and 0 Error.

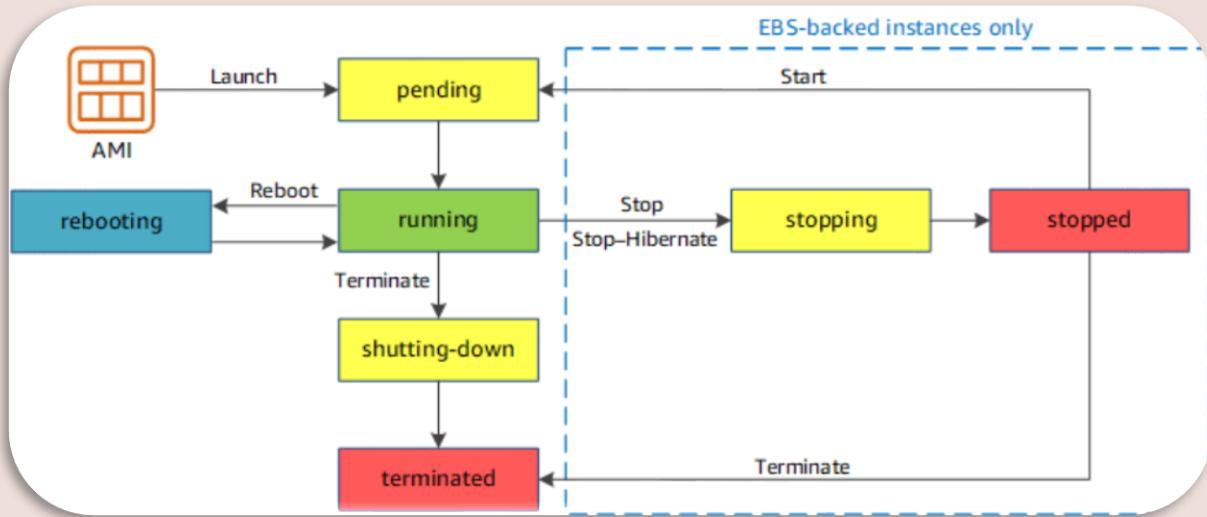
Name	Version ID	Last modified	Size	Storage class
avenger (1).txt		Oct 8, 2020 1:17:07 AM		
avenger.txt	ooNQv6C5lh5OJT4Pi0SVi5WK22wAzvvi	Oct 8, 2020 1:17:07 AM	119.0 B	Standard
avenger.txt	mJVJEnkyLX0H8NUNegnftntPGqioOWq	Oct 8, 2020 1:15:15 AM	--	--
avenger.txt	ypXKjkpgcIeBkl6yfMXvugg0lhB6V9	Oct 8, 2020 1:11:08 AM	119.0 B	Standard
avenger.txt	u1Aq43fAyT2cDX5Pw1e5iZA8u_ChoCA	Oct 8, 2020 1:05:42 AM	30.0 B	Standard

- ✓ WERE WE WANT EFFICIENT & EFFECTIVE BACKUP IS ALL ABOUT {VERSIONING- WERE WE WANT A SAME VERSION AS OF OBJECT & NOT A NEW OBJECT VERSION. }

QUESTION 1

- Explain life cycle effects on instances- Stop, start, reboot, terminate-public IP, Private Ip, Applications installed?

Ans- An Amazon EC2 instance transitions through different states from the moment you launch it through to its termination.



Running	-The instance is running and ready for use.
Stopped	-The instance is shut down and cannot be used. The instance can be started at any time.
Terminated	-The instance has been permanently deleted and cannot be started.

If your instance fails a status check or is not running your applications as expected, and if the root volume of your instance is an Amazon EBS volume, you can stop and start your instance to try to fix the problem.

When you stop your instance, it enters the stopping state, and then the stopped state. We don't charge usage or data transfer fees for your instance after you stop it, but we do charge for the storage for any Amazon EBS volumes. While your instance is in the stopped state, you can modify certain attributes of the instance, including the instance type.

Instance stop and start- While your instance is in the stopped state, you can modify certain attributes of the instance, including the instance type. When you start your

instance, it enters the pending state, and we move the instance to a new host computer (though in some cases, it remains on the current host). When you stop and start your instance, you lose any data on the instance store volumes on the previous host computer.

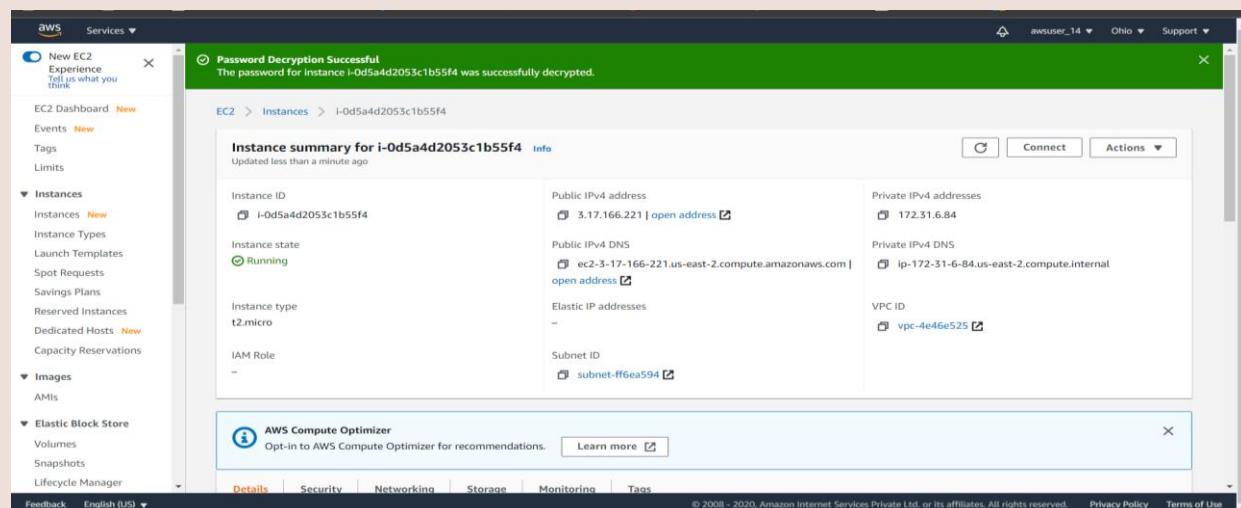
- **Start**-Your instance retains its private IPv4 address, EC2 instance retains its private IP address as well as the Elastic IP address. However, the public IP address, if assigned instead of the Elastic IP address, would be released.

Instance reboot- Instance reboot

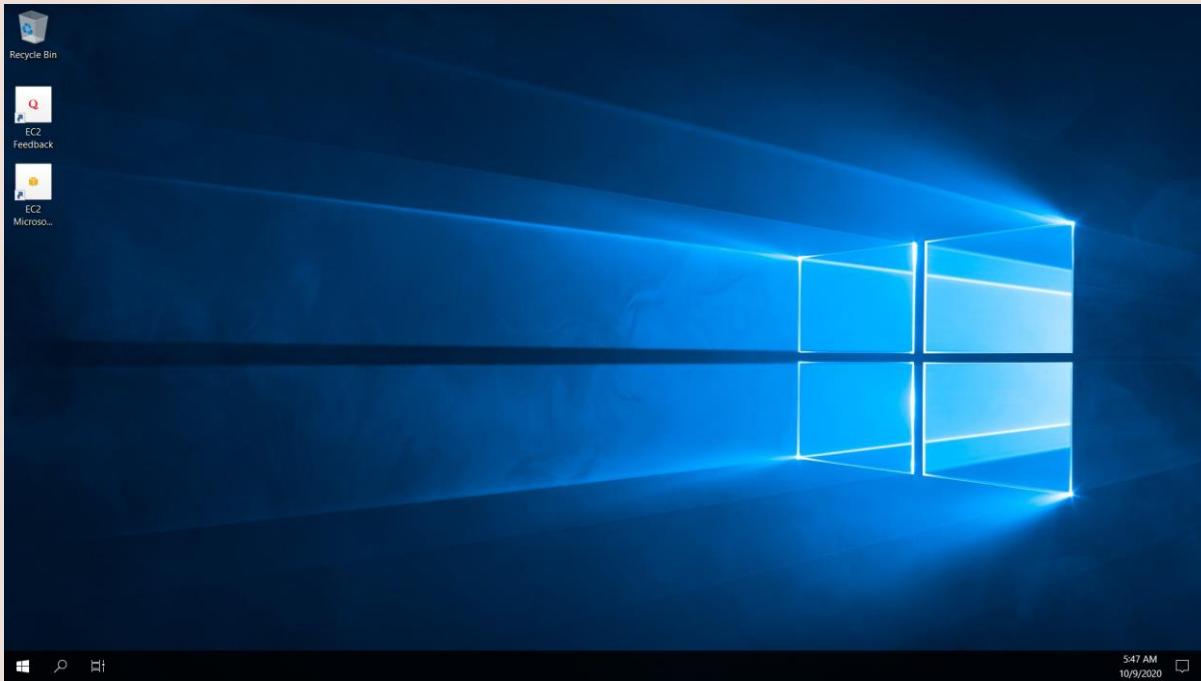
- Both EBS-backed and Instance store-backed instances can be rebooted
- An instance retains its public DNS, public and private IP address during the reboot.

Rebooting an instance is equivalent to rebooting an operating system. The instance remains on the same host computer and maintains its public DNS name, private IP address, and any data on its instance store volumes. It typically takes a few minutes for the reboot to complete, but the time it takes to reboot depends on the instance configuration.

Private and public IPv4 addresses	while rebooting- These addresses stay the same	Start/stop -The instance keeps its private IPv4 address. The instance gets a new public IPv4 address unless it has an Elastic IP address, which doesn't change during a stop/start.
--	--	--



Public IPv4 address
3.17.166.221 | [open address](#)

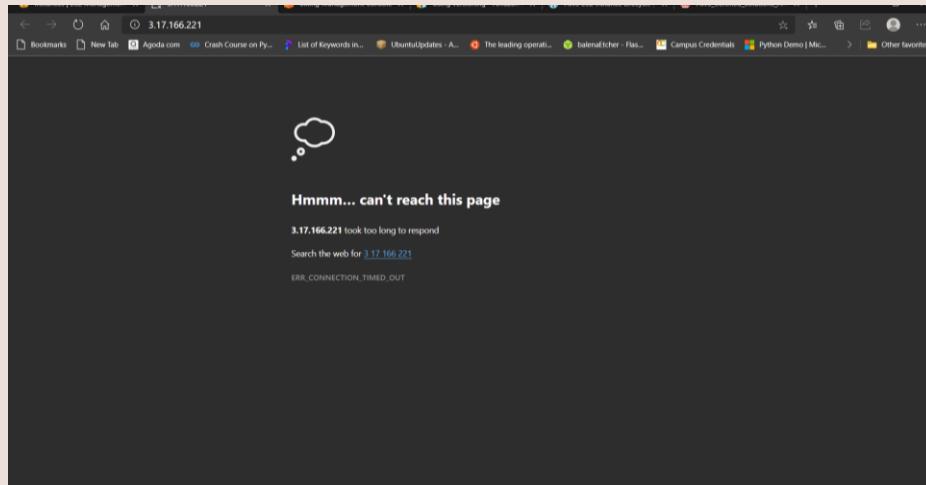


A screenshot of the AWS Management Console. The user is on the EC2 Instances page, which displays a summary for instance i-0d5a4d2053c1b55f4. A modal dialog box titled "Reboot instance?" is open, asking the user to confirm the action. The dialog includes fields for "Instance ID" (i-0d5a4d2053c1b55f4) and "Instance state" (Running). A "Reboot" button is highlighted in orange. The background shows the EC2 dashboard with various filters and instance details.

Screenshot of the AWS EC2 Instances page showing the instance summary for i-0d5a4d2053c1b55f4. A context menu is open over the Public IPv4 address (3.17.166.221). The menu options include:

- Open link in new tab
- Open link in new window
- Open link in InPrivate window
- Save link as
- Copy link
- Add to Collections
- Inspect (Ctrl+Shift+I)

The AWS Compute Optimizer banner is visible at the bottom of the page.



Screenshot of the AWS EC2 Instances page showing the instance summary for i-0d5a4d2053c1b55f4. The instance state is now Stopping. The Actions button is highlighted in orange.

Instances (1/1) Info

Name	Instance ID	Instance state	Status check	Alarm Sta...	Availability z...	Public IPv4 DNS	Public IPV	
-	i-0d5a4d2053c1b55f4	Stopping	t2.micro	-	No alarm +	us-east-2a	ec2-3-17-166-221.u...	3.17.166.2

Instance: i-0d5a4d2053c1b55f4

The Details tab is selected. The Instance summary table shows:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0d5a4d2053c1b55f4	3.17.166.221 open address	172.31.6.84

The screenshot shows the AWS EC2 Instances page. A green banner at the top indicates "Successfully stopped i-0d5a4d2053c1b55f4". The main table lists one instance: "i-0d5a4d2053c1b55f4" which is "Stopped". The "Details" tab is selected, showing the instance summary. The public IPv4 address is listed as "–". The private IPv4 address is "172.31.6.84". The public IPv4 DNS is "ip-172-31-6-84.us-east-2.compute.internal". The VPC ID is "vpc-4e46e525".

Started again....

'Ipv4 is changed'

- Ip is changed, then we have connect again to get installed application back.
- Then,

The screenshot shows the AWS EC2 Instances page. The instance "i-0d5a4d2053c1b55f4" is now "Running". The "Details" tab is selected, showing the instance summary. The public IPv4 address is "3.15.218.176". The private IPv4 address is "172.31.6.84". The public IPv4 DNS is "ec2-3-15-218-176.us-east-2.compute.amazonaws.com". The VPC ID is "vpc-4e46e525".

AWS Services ▾

New EC2 Experience Tell us what you think

EC2 Dashboard New

Events New

Tags

Limits

Instances Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

Images AMIs

Elastic Block Store Volumes Snapshots Lifecycle Manager

Feedback English (US) ▾

EC2 Instances i-0d5a4d2053c1b55f4

Instance summary for i-0d5a4d2053c1b55f4 Info Updated less than a minute ago

Instance ID i-0d5a4d2053c1b55f4

Public IPv4 address 3.15.218.176 | open address

Private IPv4 addresses 172.31.6.84

Instance state Running

Instance type t2.micro

IAM Role -

Terminate instance? X

Instance IDs i-0d5a4d2053c1b55f4

To confirm that you want to terminate the instance, choose the **terminate** button below. Terminating the instance cannot be undone

Cancel Terminate

AWS Compute Optimizer Opt-in to AWS Compute Optimizer for recommendations. Learn more

Details Security Networking Storage Monitoring Tags

Instance details Info

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AWS Services ▾

New EC2 Experience Tell us what you think

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Elastic Block Store Volumes Snapshots Lifecycle Manager

Feedback English (US) ▾

EC2 Instances i-0d5a4d2053c1b55f4

Instance summary for i-0d5a4d2053c1b55f4 Info Updated less than a minute ago

Instance ID i-0d5a4d2053c1b55f4

Public IPv4 address -

Private IPv4 addresses -

Instance state Terminated

Public IPv4 DNS -

Private IPv4 DNS -

Instance type t2.micro

Elastic IP addresses -

VPC ID -

IAM Role -

Subnet ID -

AWS Compute Optimizer Opt-in to AWS Compute Optimizer for recommendations. Learn more

Details Security Networking Storage Monitoring Tags

Instance details Info

Platform windows

AMI ID ami-0e60a0106d72025d

Monitoring disabled

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