

## Assignment Day 3 and 4 | 5th October 2020

Manish Patel

### PROJECT 1: Deploying a web server in Windows instance

#### Task 1: Create a windows instance using AMI: Windows 2012 R2 base

**Instance summary for i-0237288c114e647ce (WindowsMNP)** [Info](#)

Updated less than a minute ago

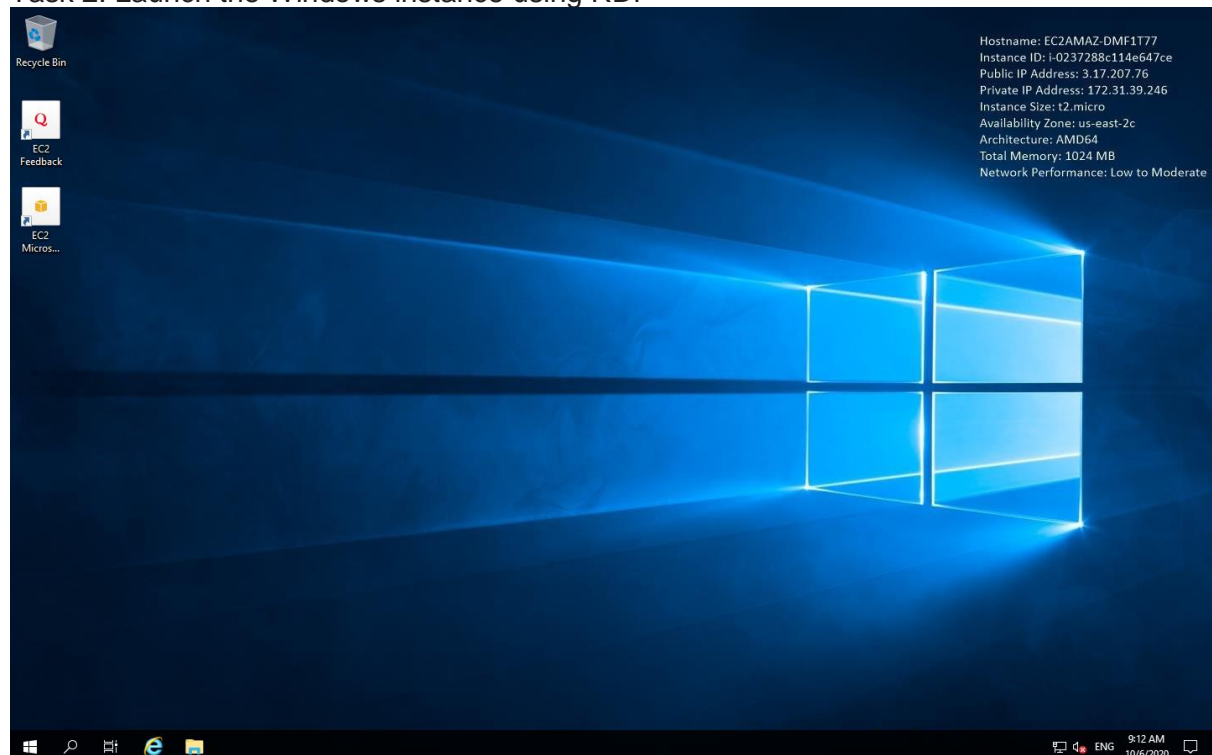
Instance ID i-0237288c114e647ce (WindowsMNP)	Public IPv4 address 3.17.207.76   <a href="#">open address</a>	Private IPv4 addresses 172.31.39.246
Instance state <b>Running</b>	Public IPv4 DNS ec2-3-17-207-76.us-east-2.compute.amazonaws.com   <a href="#">open address</a>	Private IPv4 DNS ip-172-31-39-246.us-east-2.compute.internal
Instance type t2.micro	Elastic IP addresses -	VPC ID vpc-7074d71b
IAM Role -	Subnet ID subnet-49533b05	

**AWS Compute Optimizer**  
Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

**Instance details** [Info](#)

Platform windows	AMI ID ami-0ca69a9d06da3835d	Monitoring disabled
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#### Task 2: Launch the Windows instance using RDP



### Task 3: Install IIS web server using Powershell ISE

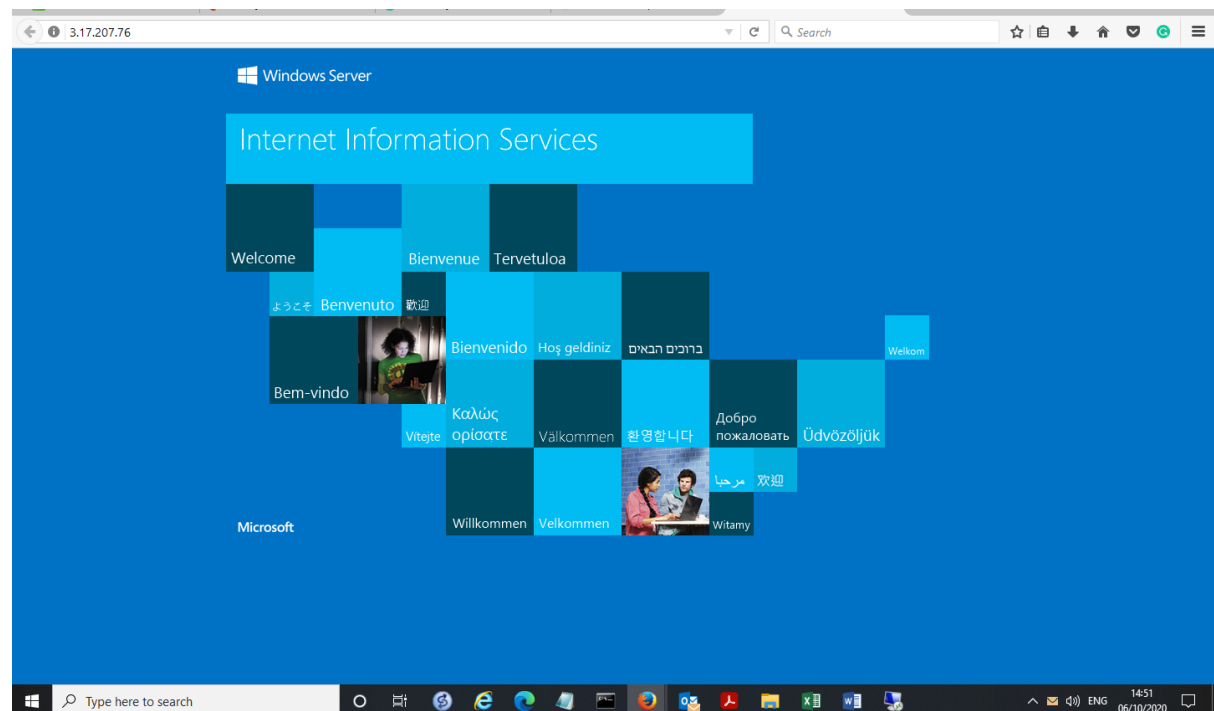
```
Administrator: Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> Install-WindowsFeature -name Web-Server -IncludeManagementTools
Install-WindowsFeature : Cannot bind parameter because parameter 'Name' is specified more than once. To provide
multiple values to parameters that can accept multiple values, use the array syntax. For example, "-parameter
value1,value2,value3".
At line:1 char:57
+ ... eb-Server -IncludeManagementToolsInstall-WindowsFeature -name Web-Ser ...
+ ~~~~~
+ CategoryInfo          : InvalidArgument: (:) [Install-WindowsFeature], ParameterBindingException
+ FullyQualifiedErrorId : ParameterAlreadyBound,Microsoft.Windows.ServerManager.Commands.AddWindowsFeatureCommand

PS C:\Users\Administrator> Install-WindowsFeature -name Web-Server -IncludeManagementTools

Success Restart Needed Exit Code      Feature Result
-----
True      No              Success      (Common HTTP Features, Default Document, D...
```

### Task 4: Verify successful installation of IIS Web Server



## PROJECT 2: Deploying a web server in Windows instance

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

The screenshot displays the AWS Management Console interface for an EC2 instance. The instance is named **i-Oce828cc0faedcdc1 (UbuntuMNP)** and is currently in the **Running** state. The console provides a comprehensive overview of the instance's configuration, including its type (**t2.micro**), IAM role, and network settings. Key details include the public IPv4 address **18.188.203.23** and the private IPv4 address **172.31.39.29**. The instance is located in the **us-east-2** region. The console also offers options to connect to the instance or view its details. A sidebar on the left provides navigation links for various AWS services, and the bottom of the screen shows the Windows taskbar with the system clock at 14:52 on 06/10/2020.

### Task 2: Launch the Ubuntu instance using SSH

The screenshot shows a MobaXterm terminal window with an active SSH session to the Ubuntu instance. The terminal displays the MobaXterm version (20.3) and the SSH session details, including the IP address (18.188.203.23) and the IP address for eth0 (172.31.39.29). The terminal output shows the Ubuntu 18.04.5 LTS (GNU/Linux 5.3.0-1035-aws x86\_64) welcome message, system information, and the prompt **ubuntu@ip-172-31-39-29:~\$**. The terminal window is titled **1. 18.188.203.23 (ubuntu)** and has a sidebar on the left showing the file system structure. The bottom of the screen shows the Windows taskbar with the system clock at 14:59 on 06/10/2020.

## sTask 3: Install Nginx web server using bash

## Task 4: Verify successful installation of nginx

18.188.203.23

### 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](http://nginx.org).  
Commercial support is available at [nginx.com](http://nginx.com).

*Thank you for using nginx.*

Type here to search

# PROJECT 3: Working with volumes

## 1: Create a windows machine

**Instance summary for i-0237288c114e647ce (WindowsMNP)** Info

Updated less than a minute ago

Instance ID i-0237288c114e647ce (WindowsMNP)	Public IPv4 address 3.17.207.76   <a href="#">open address</a>	Private IPv4 addresses 172.31.39.246
Instance state Running	Public IPv4 DNS ec2-3-17-207-76.us-east-2.compute.amazonaws.com   <a href="#">open address</a>	Private IPv4 DNS ip-172-31-39-246.us-east-2.compute.internal
Instance type t2.micro	Elastic IP addresses -	VPC ID vpc-7074d71b
IAM Role -	Subnet ID subnet-49533b05	

**AWS Compute Optimizer**  
Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

**Instance details** Info

Platform windows	AMI ID ami-0ca69a9d06da3835d	Monitoring disabled
---------------------	---------------------------------	------------------------

## 2: Create a volume in the same region as the windows machine

**Create Volume** Actions

Filter by tags and attributes or search by keyword

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State	Alarm Status
	vol-013844ac...	2 GiB	gp2	100		October 6, 2020 at ...	us-east-2c	available	None
	vol-0aea0e33...	8 GiB	gp2	100	snap-0077d65...	October 6, 2020 at ...	us-east-2c	in-use	None
	vol-06bb8626...	30 GiB	gp2	100	snap-0c40bee...	October 6, 2020 at ...	us-east-2c	in-use	None

Select a volume above

### 3: Attach the volume to the windows machine

Filter by tags and attributes or search by keyword

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
	vol-06bb86260444255ec	30 GiB	gp2	100	snap-0c40bee...	October 6, 2020 at ...	us-east-2c	in-i
	vol-0aea0e33d6e6642a3	8 GiB	gp2	100	snap-0077d65...	October 6, 2020 at ...	us-east-2c	in-i
volumewindows	vol-013844ac61edaf10d	2 GiB	gp2	100		October 6, 2020 at ...	us-east-2c	in-i

Volume ID: vol-013844ac61edaf10d  
Alarm status: None  
Snapshot: -  
Availability Zone: us-east-2c  
Encryption: Not Encrypted  
KMS Key ID: -  
Outposts ARN: -  
Size: 2 GiB  
Created: October 6, 2020 at 3:06:35 PM UTC+5:30  
State: in-use  
Attachment information: i-0237288c114e647ce (WindowsMNP):xvdf (attached)  
Volume type: gp2

### 4: From server manager bring the volume online

Server Manager > File and Storage Services > Volumes > Disks

DISKS  
All disks | 2 total

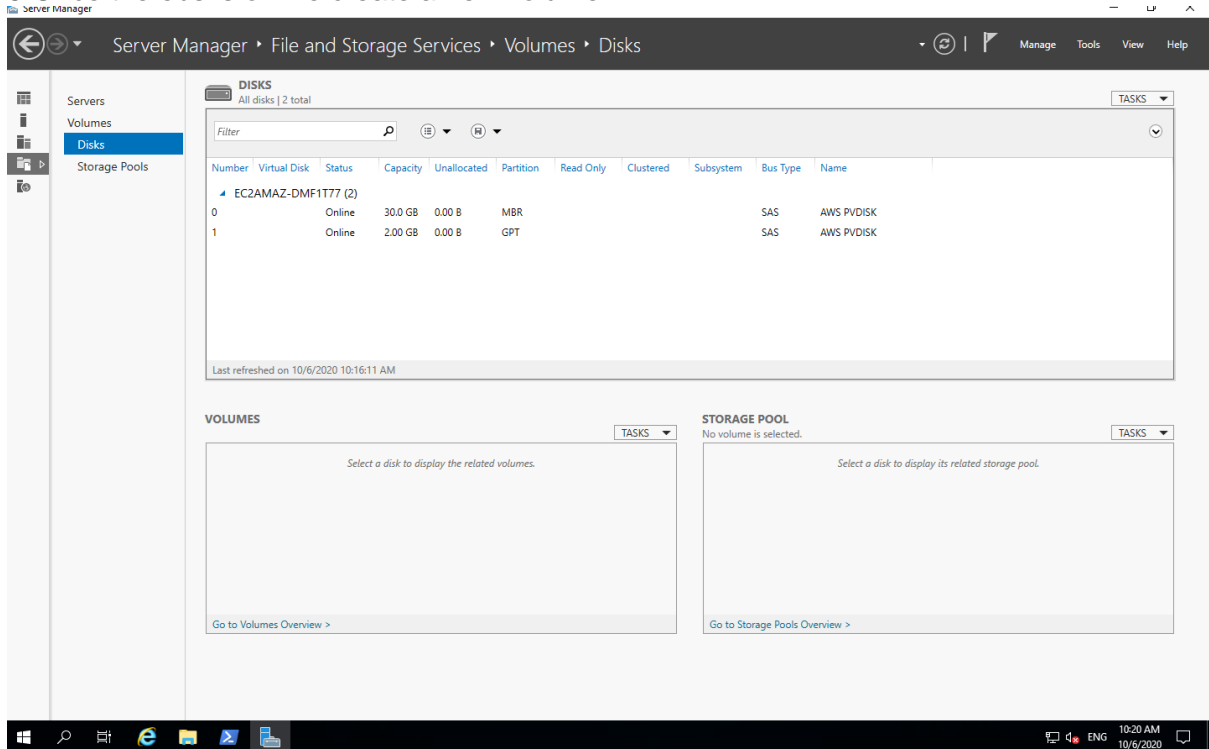
Number	Virtual Disk	Status	Capacity	Unallocated	Partition	Read Only	Clustered	Subsystem	Bus Type	Name
0	EC2AMAZ-DMF1T77 (2)	Online	30.0 GB	0.00 B	MBR				SAS	AWS PVDISK
1		Online	2.00 GB	2.00 GB	Unknown				SAS	AWS PVDISK

Last refreshed on 10/6/2020 10:13:24 AM

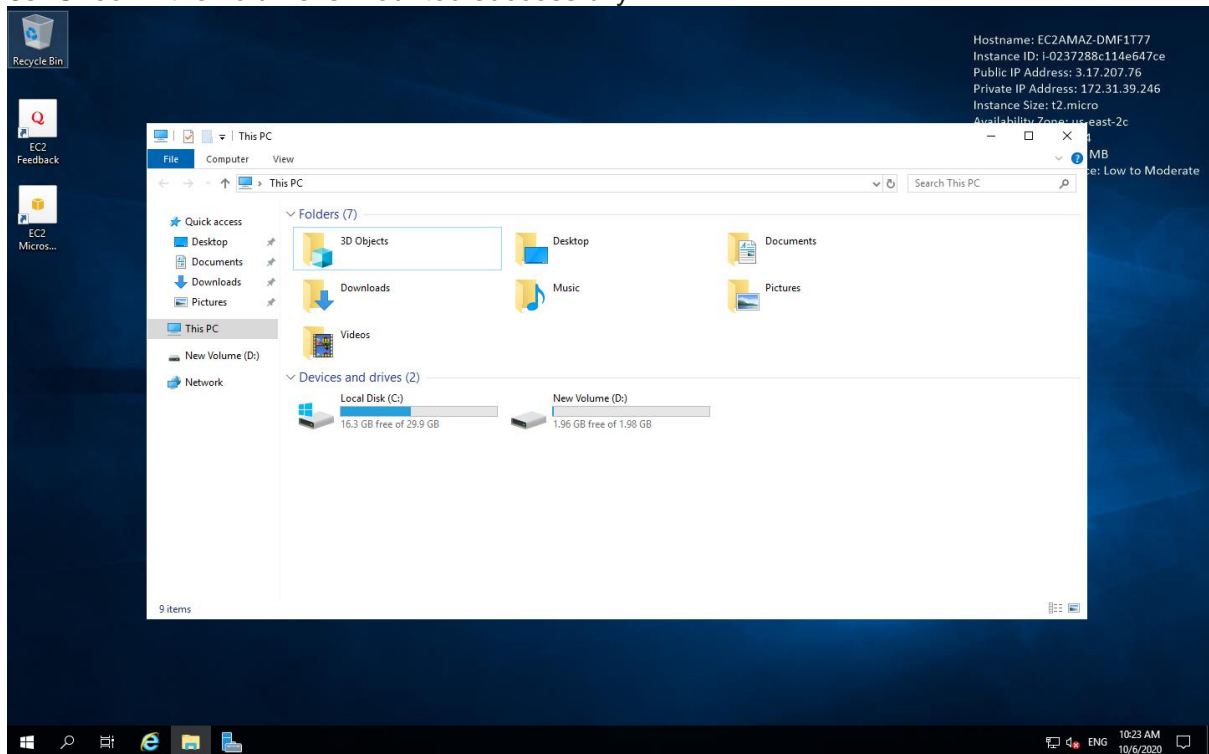
VOLUMES  
No volumes exist.  
To create a volume, start the New Volume Wizard.  
Go to Volumes Overview >

STORAGE POOL  
AWS PVDISK on EC2AMAZ-DMF1T77  
No related storage pool exists.  
Go to Storage Pools Overview >

## 5: Once the ebs is online create a new volume



## 6s: Check if the volume is mounted successfully



## 7: Try modifying the volume config

Meraki Dashboard | Cambly | Grammarly: Free Online W... | Volumes | EC2 Manage...

https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Volumes:sort=createTime

Services

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Create Volume

Actions

Filter by tags and attributes or search by keyword

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
	vol-06bb86260444255ec	30 GiB	gp2	100	snap-0c40bee...	October 6, 2020 at ...	us-east-2c	in-use
	vol-0aea0e33d6e6642a3	8 GiB	gp2	100	snap-0077d65...	October 6, 2020 at ...	us-east-2c	in-use
volumewindows	vol-013844ac61edaf10d	2 GiB	gp2	100		October 6, 2020 at ...	us-east-2c	in-use

Modify Volume

Volume ID: vol-013844ac61edaf10d

Volume Type: Provisioned IOPS SSD (io1)

Size: 6 (Min: 4 GiB, Max: 16384 GiB)

IOPS: 100 (Min: 100 IOPS, Max: 64000 IOPS)

Cancel Modify

06:35 PM UTC+5:30

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Type here to search

## 8:Delete the volume

https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Volumes:sort=createTime

Services

New EC2 Experience

EC2 Dashboard

Events

Tags

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Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Create Volume

Actions

Filter by tags and attributes or search by keyword

Name	Volume ID	Size	Volume Type	IOPS	Snapshot	Created	Availability Zone	State
	vol-06bb86260444255ec	30 GiB	gp2	100	snap-0c40bee...	October 6, 2020 at ...	us-east-2c	in-use
	vol-0aea0e33d6e6642a3	8 GiB	gp2	100	snap-0077d65...	October 6, 2020 at ...	us-east-2c	in-use
volumewindows	vol-013844ac61edaf10d	4 GiB	io2	100		October 6, 2020 at ...	us-east-2c	available

Volume ID: vol-013844ac61edaf10d

Alarm status: None

Snapshot: -

Availability Zone: us-east-2c

Encryption: Not Encrypted

KMS Key ID: -

KMS Key Aliases: -

KMS Key ARN: -

Outposts ARN: -

Size: 4 GiB

Created: October 6, 2020 at 3:06:35 PM UTC+5:30

State: available

Attachment information

Volume type: io2

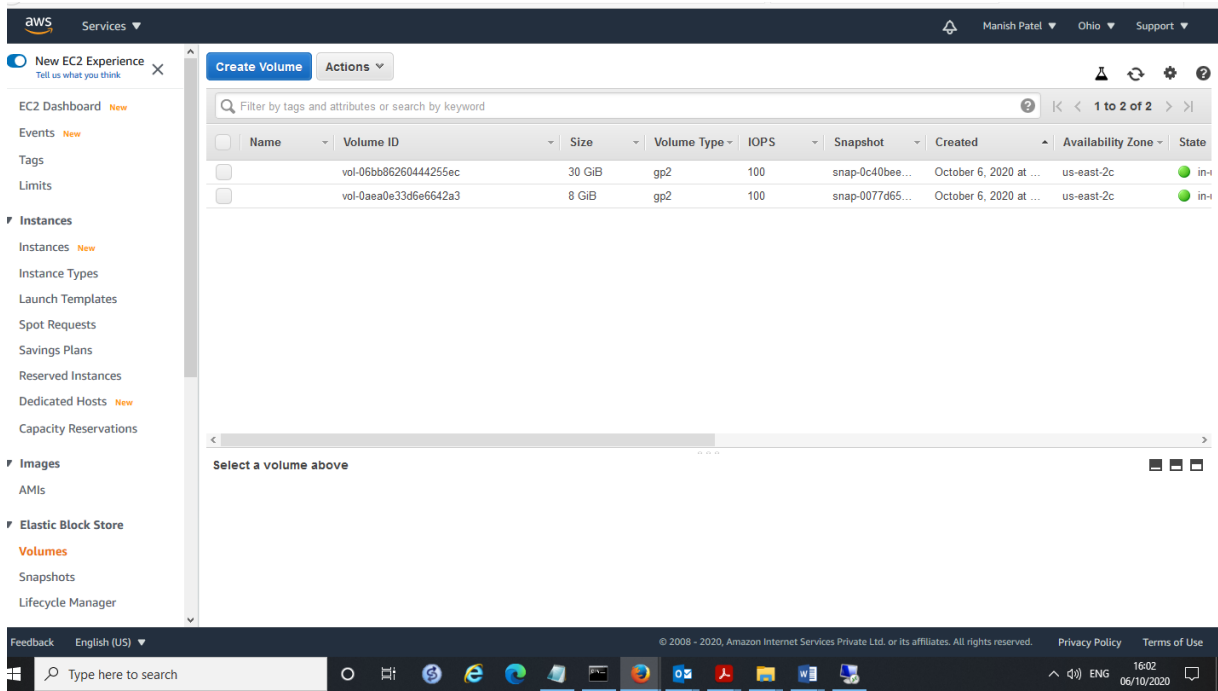
Product codes

IOPS: 100

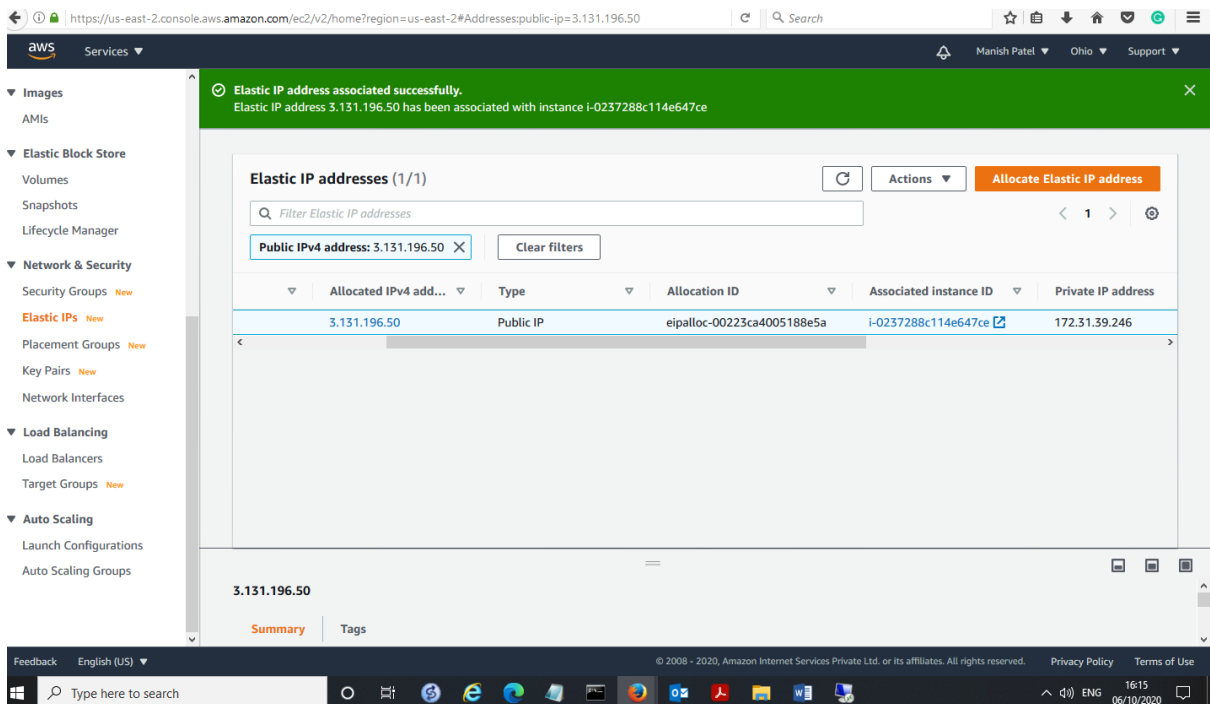
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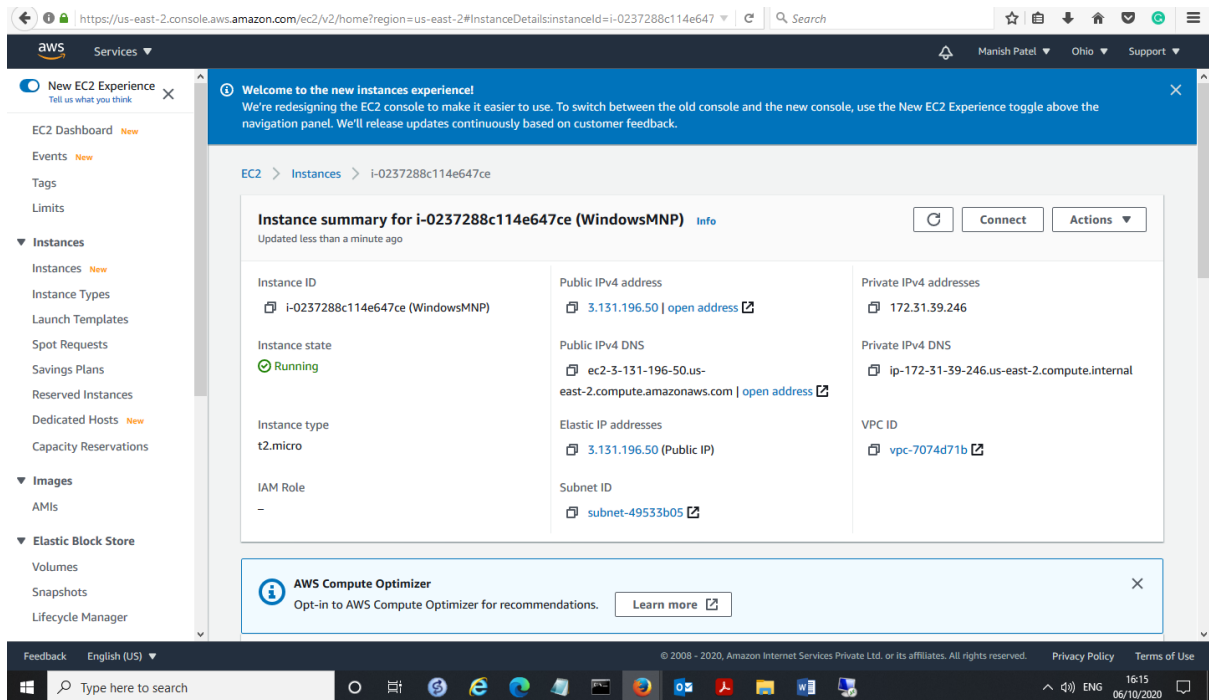
Type here to search





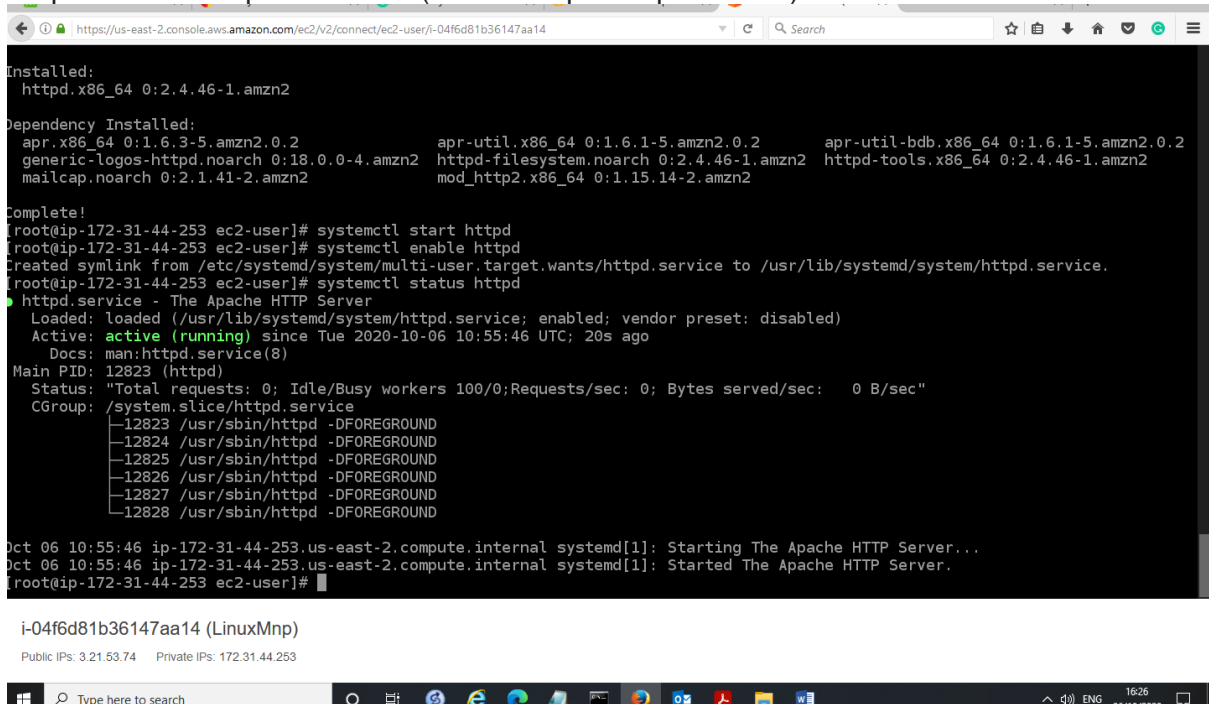
## PROJECT 4: Working with Elastic IP's



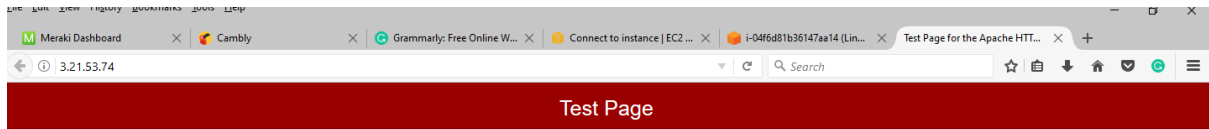


S

## Step1: Install an Apache Server( All the steps are performed)



Check the web server status



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](http://www.example.com), you should send e-mail to "webmaster@example.com".

**If you are the website administrator:**

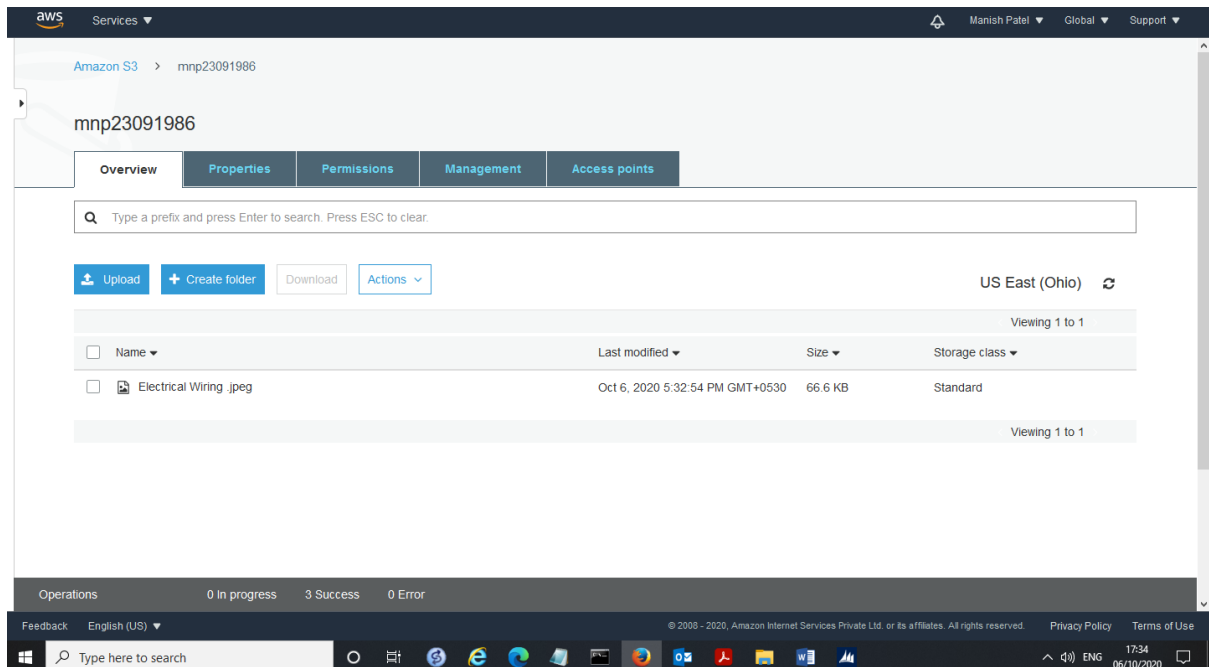
You may now add content to the directory `/var/www/html/`. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

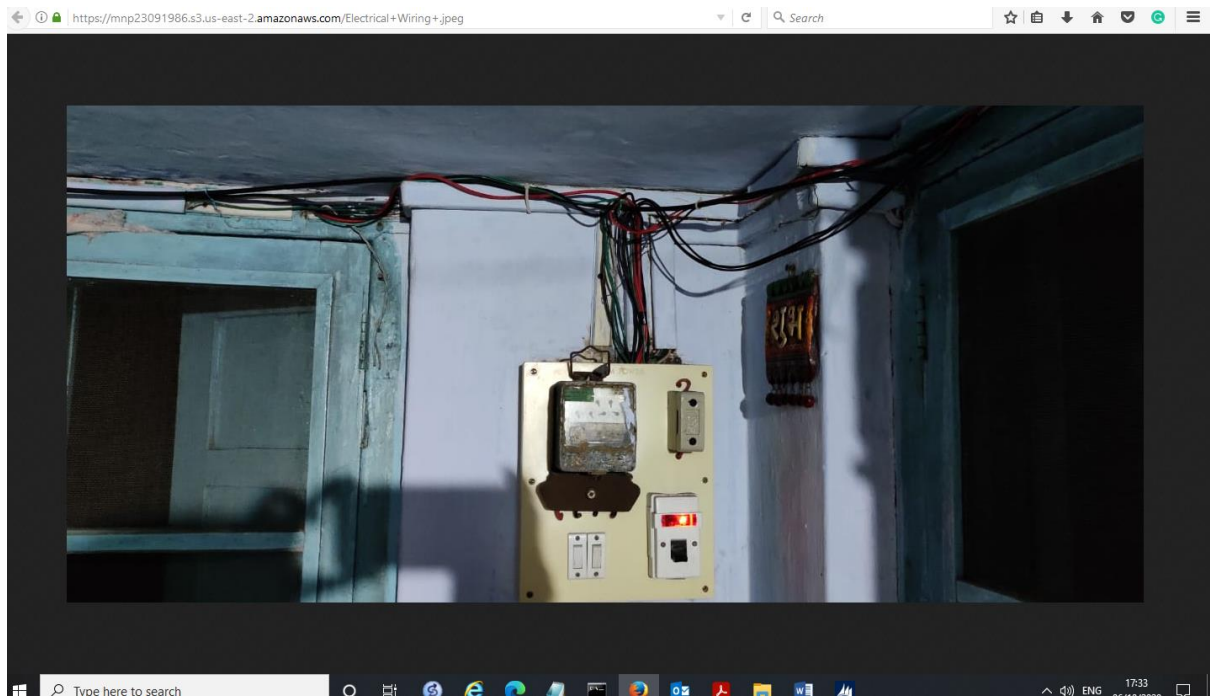
You are free to use the image below on web sites powered by the Apache HTTP Server:



## PROJECT 5: Working with S3

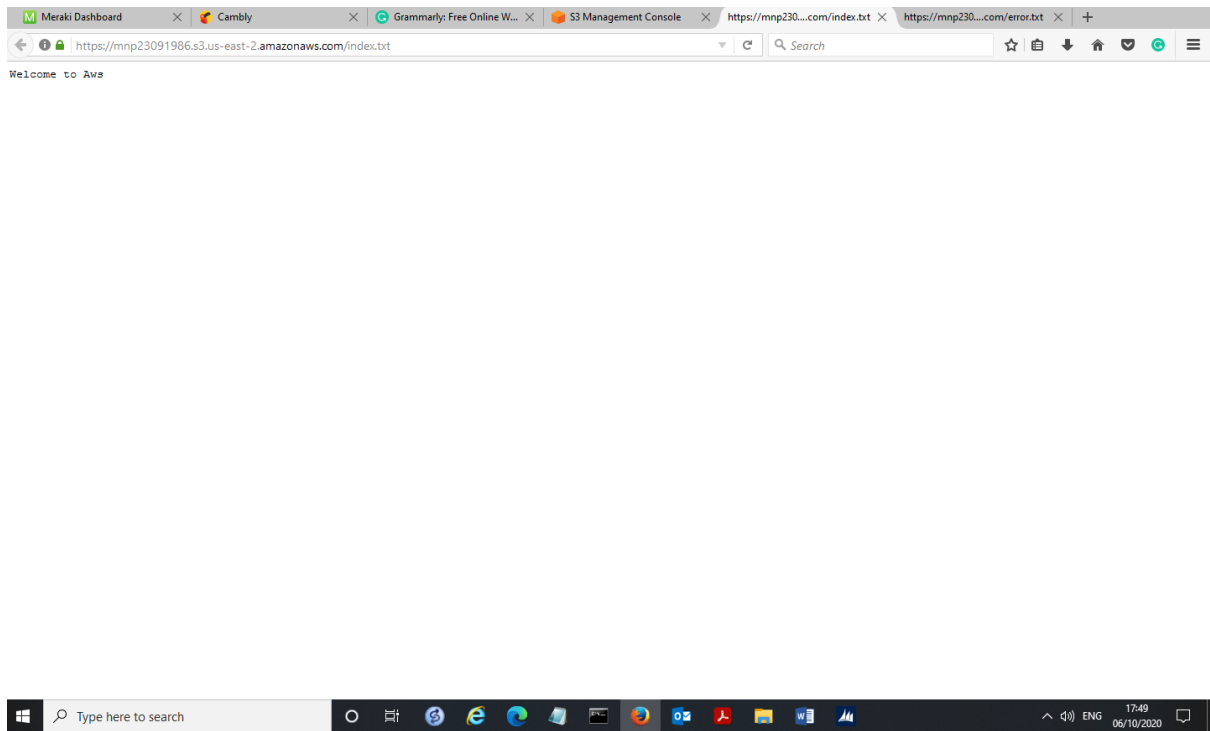
### a.working with S3-.jpg

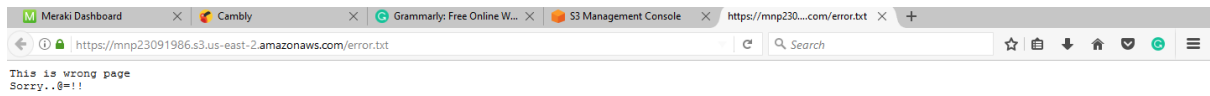




## b. static web hosting

S





## c.Versionings

Amazon S3 > mnp23091986

mnp23091986

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)

Name	Version ID	Last modified	Size	Storage class
Electrical Wiring.jpeg		Oct 6, 2020 5:32:54 PM		
Oct 6, 2020 5:32:54 PM (Latest version)	null		66.6 KB	Standard
error.txt		Oct 6, 2020 5:46:40 PM		
Oct 6, 2020 5:46:40 PM (Latest version)	null		31.0 B	Standard
index.txt		Oct 6, 2020 5:46:31 PM		
Oct 6, 2020 5:46:31 PM (Latest version)	null		14.0 B	Standard

Viewing 1 to 3

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https://s3.console.aws.amazon.com/s3/buckets/mnp23091986/?region=us-east-2&tab=overview&showversions=false

Firefox prevented this site from opening a pop-up window.

aws Services

Manish Patel Global Support

Amazon S3 > mnp23091986

## mnp23091986

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)

Name	Last modified	Size	Storage class
error.txt	Oct 6, 2020 5:46:40 PM GMT+0530	31.0 B	Standard
index.txt	Oct 6, 2020 5:46:31 PM GMT+0530	14.0 B	Standard

Viewing 1 to 2

Operations 0 In progress 1 Success 0 Error

Feedback English (US)

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Type here to search

https://s3.console.aws.amazon.com/s3/buckets/mnp23091986/?region=us-east-2&tab=overview&showversions=true

Firefox prevented this site from opening a pop-up window.

aws Services

Manish Patel Global Support

Amazon S3 > mnp23091986

## mnp23091986

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)

Name	Version ID	Last modified	Size	Storage class
Electrical Wiring .jpeg		Oct 6, 2020 5:52:22 PM		
Oct 6, 2020 5:52:22 PM (Delete marker)	KDDXDZhQ5_SUGNeAFMEjNulzXO...		--	--
Oct 6, 2020 5:32:54 PM	null		66.6 KB	Standard
error.txt		Oct 6, 2020 5:46:40 PM		
Oct 6, 2020 5:46:40 PM (Latest version)	null		31.0 B	Standard
index.txt		Oct 6, 2020 5:46:31 PM		
Oct 6, 2020 5:46:31 PM (Latest version)	null		14.0 B	Standard

Viewing 1 to 4

Operations 0 In progress 1 Success 0 Error

Feedback English (US)

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Type here to search

**QUESTION 1:**

Explain life cycle effects on instances: Stop, start, reboot, terminate-public IP, Private IP, and Application Installed.

In Static IP hosting if you reboot or Stop and restart the instance Public and Private IP remain the same and Application work fine.

In DHCP if you restart the instance it's public IP changed, private IP remain the same and it's application will work

During rebooting process, Private and Public IP remain the same and Application will work.

After terminating the instance, instance will not associate with your account and when you create new one it's Public IP , private IP will changed and Application need to install.