**AWS Advanced Projects (Day3-Day4)**

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**Project 1:** Deploying a web server in Windows instance

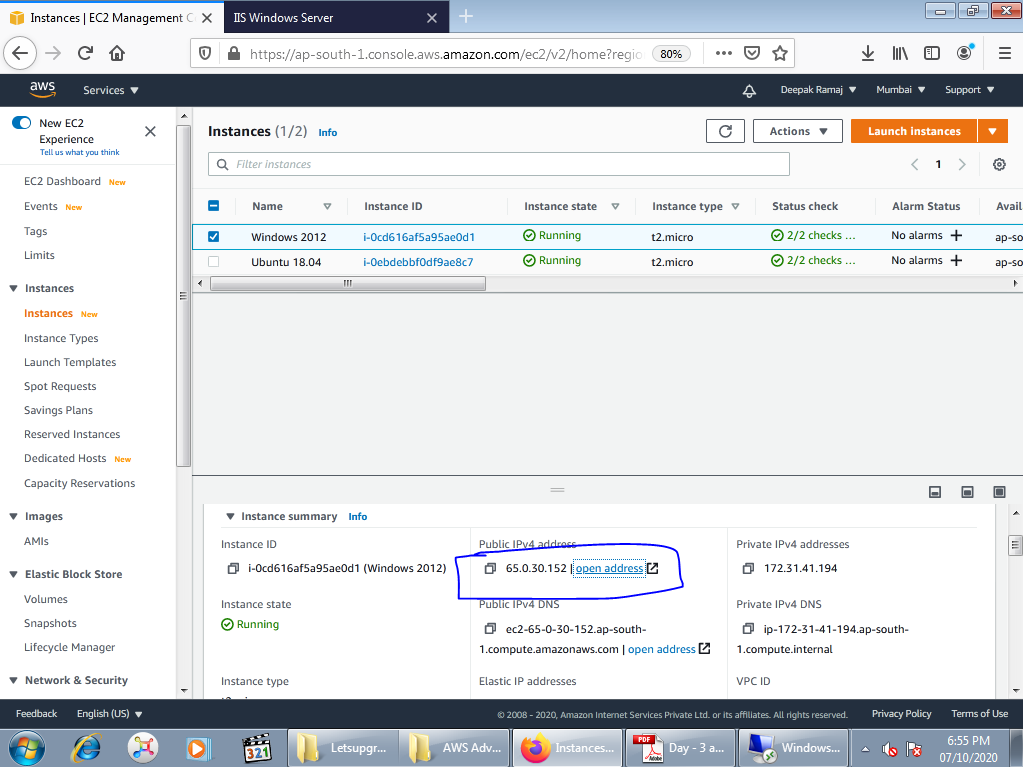


Fig 1.1 Windows instance

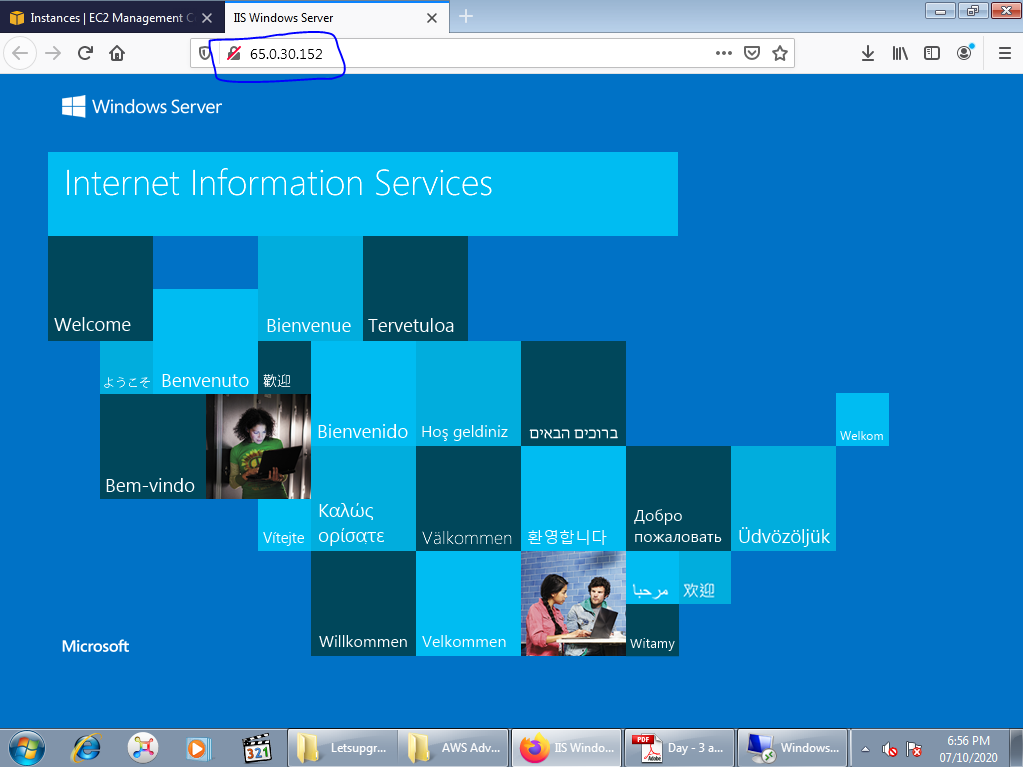


Fig 1.2 IIS Web server

**Project 2:** Deploying a Nginx web server in Ubuntu instance

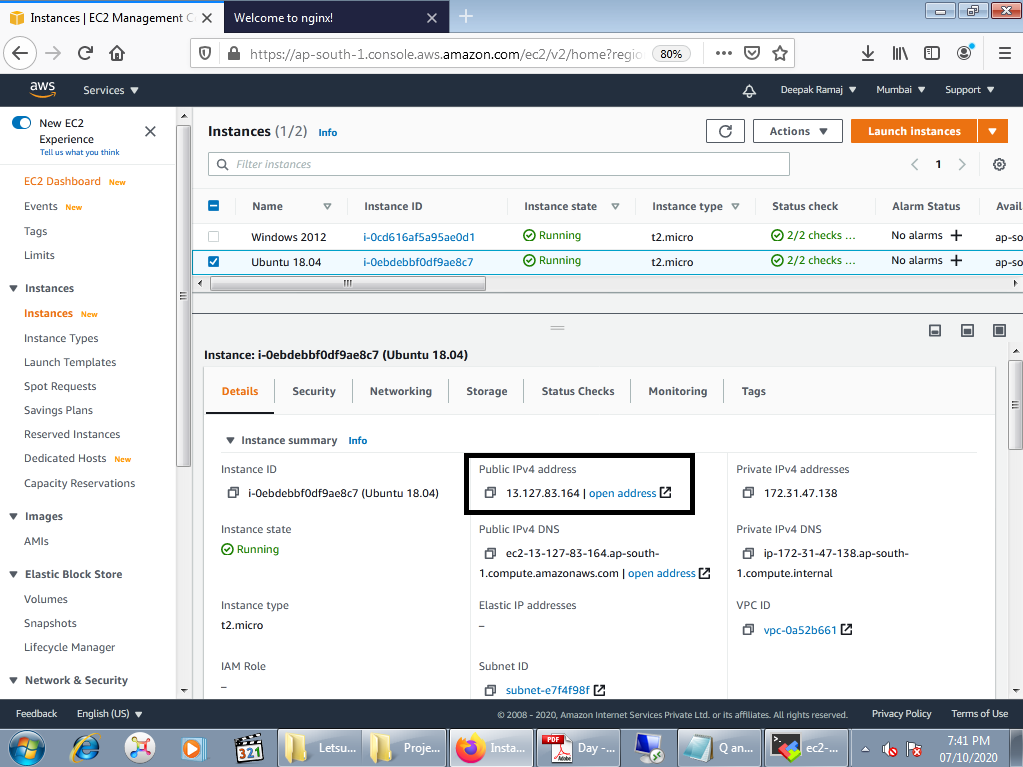


Fig 2.1 Ubuntu instance

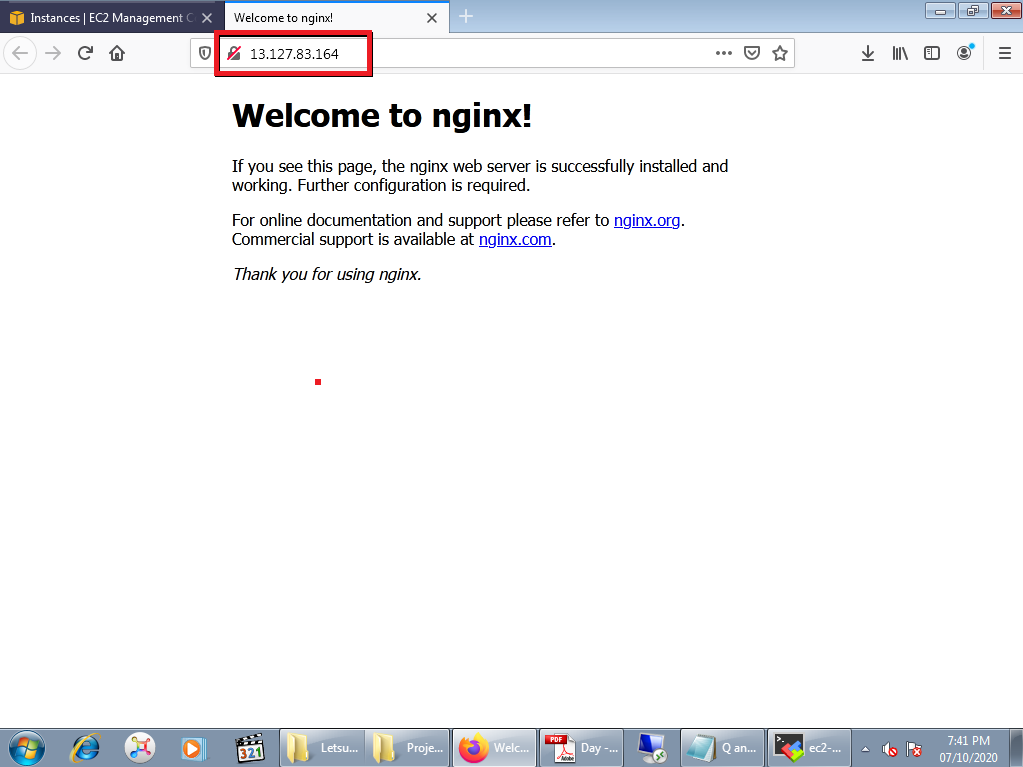


Fig 2.2 Nginx web server

**Project 3:** Workingwith EBS volumes

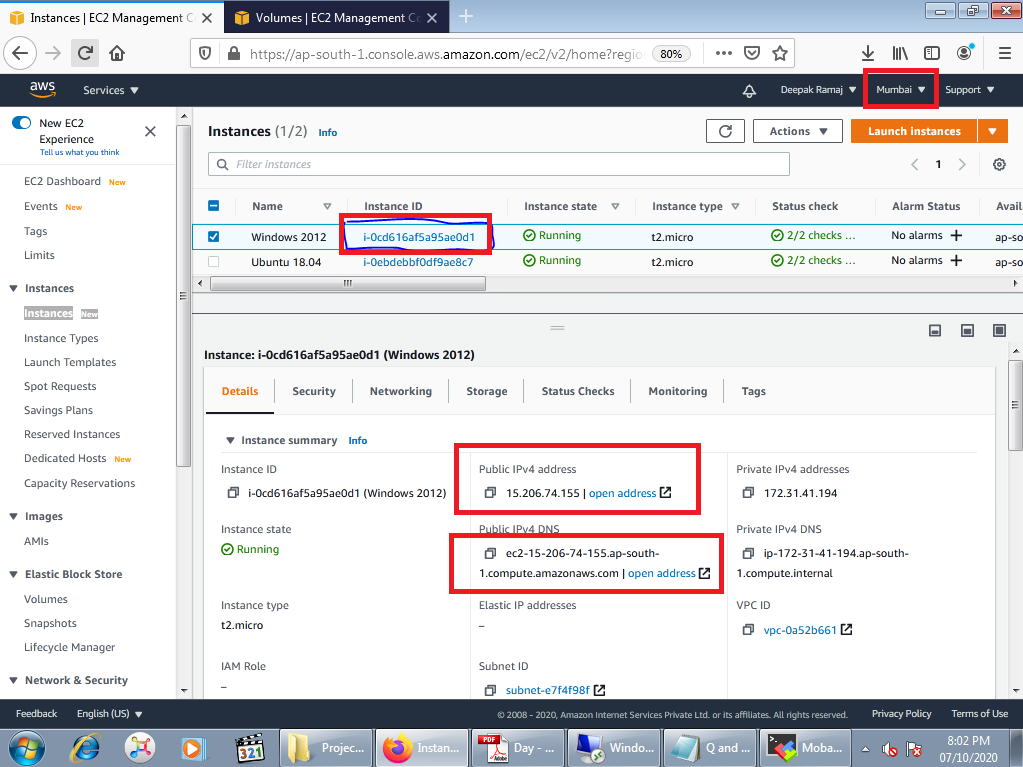


Fig 3.1 Windows Instance

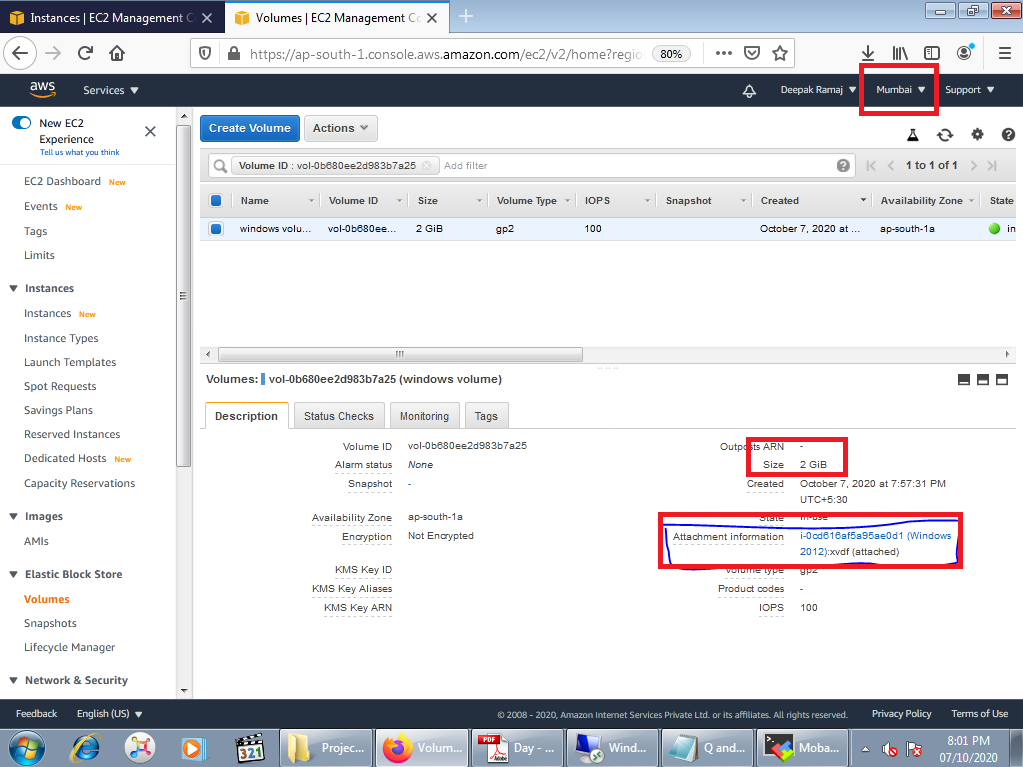


Fig 3.2 Volume creation and attachment

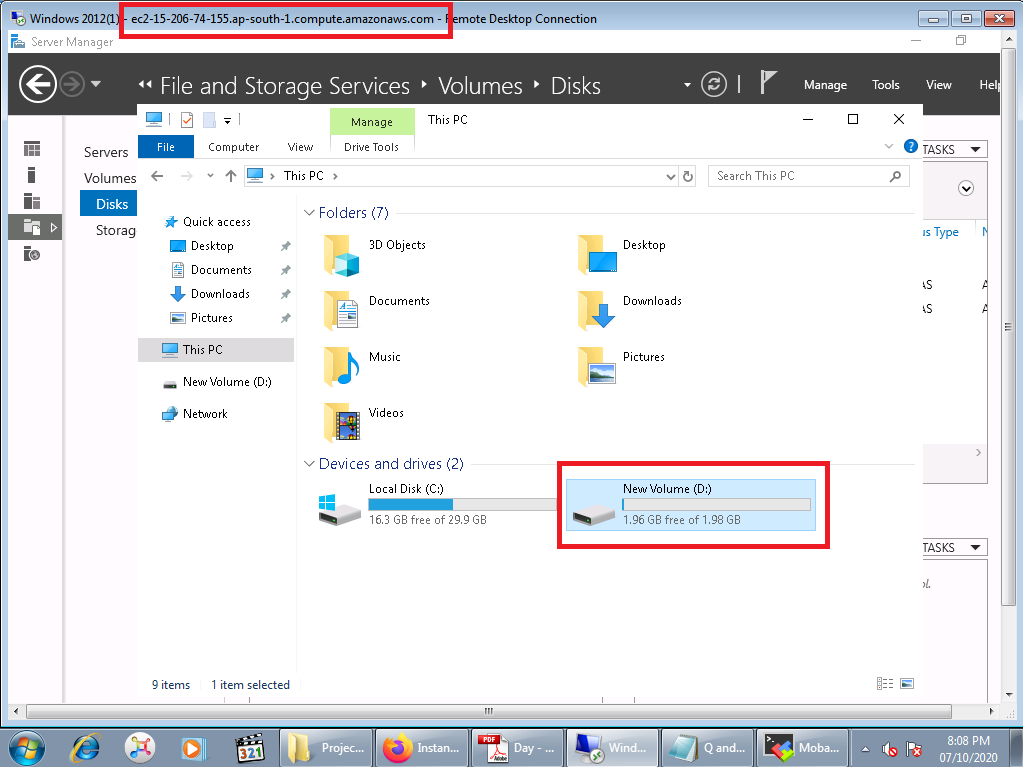


Fig 3.3 Volume attached and mounted successfully

**Project 4:** Working with Elastic IP's

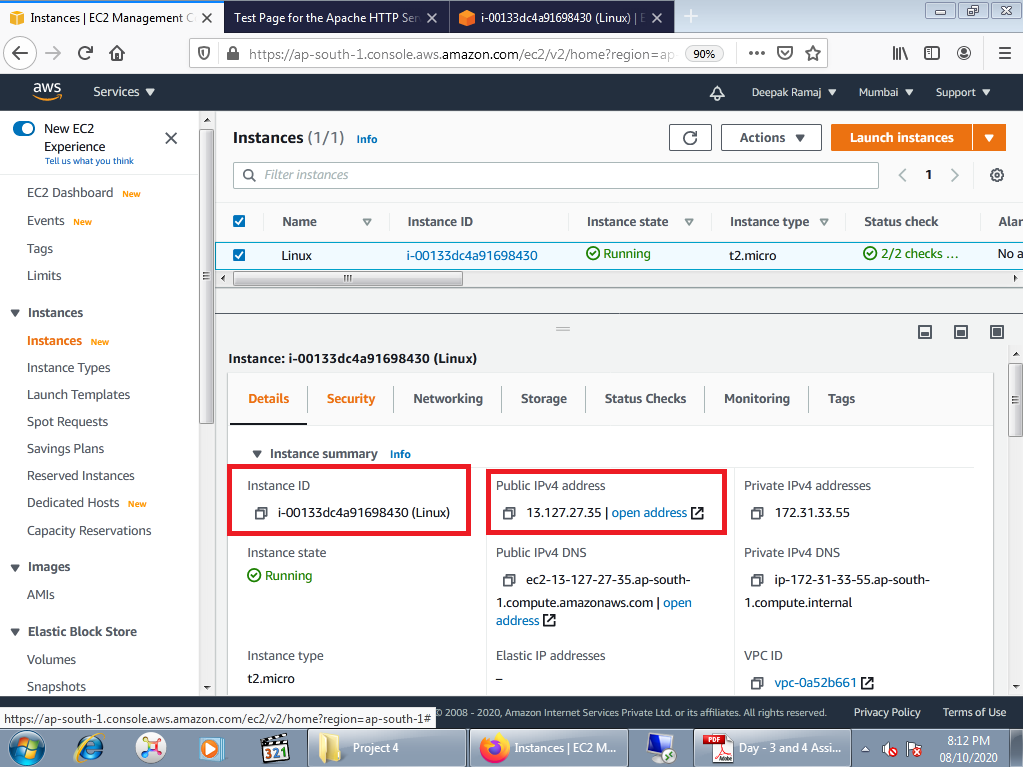


Fig 4.1 Linux instance

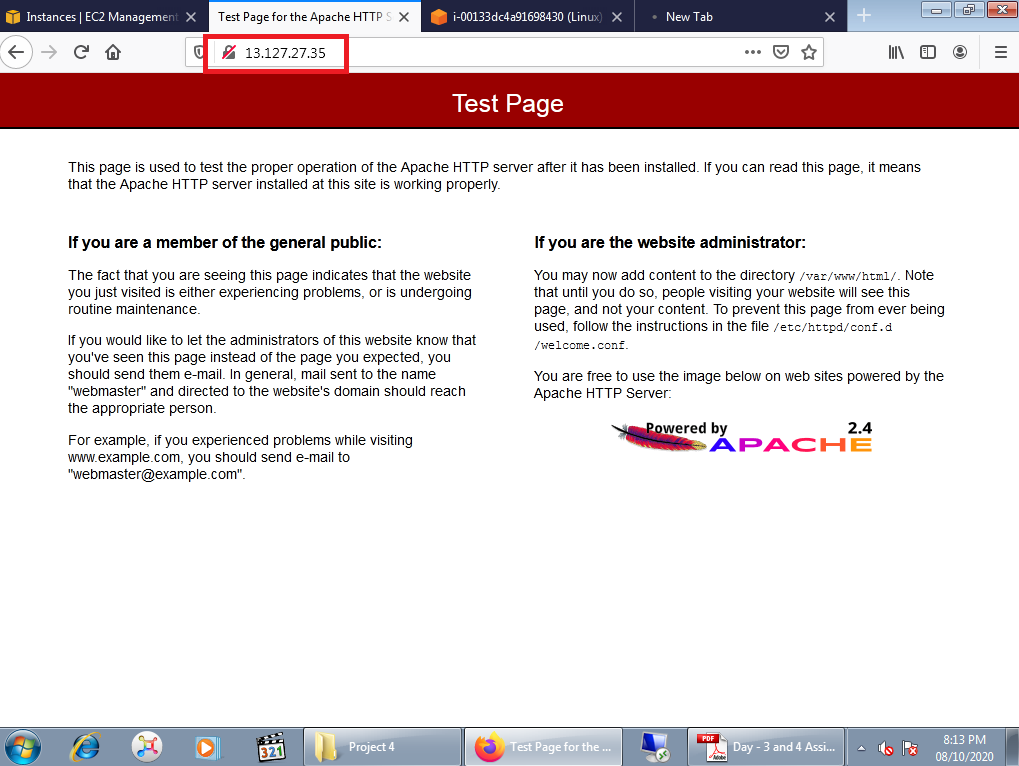


Fig 4.2 Apache server Test Page using public IP

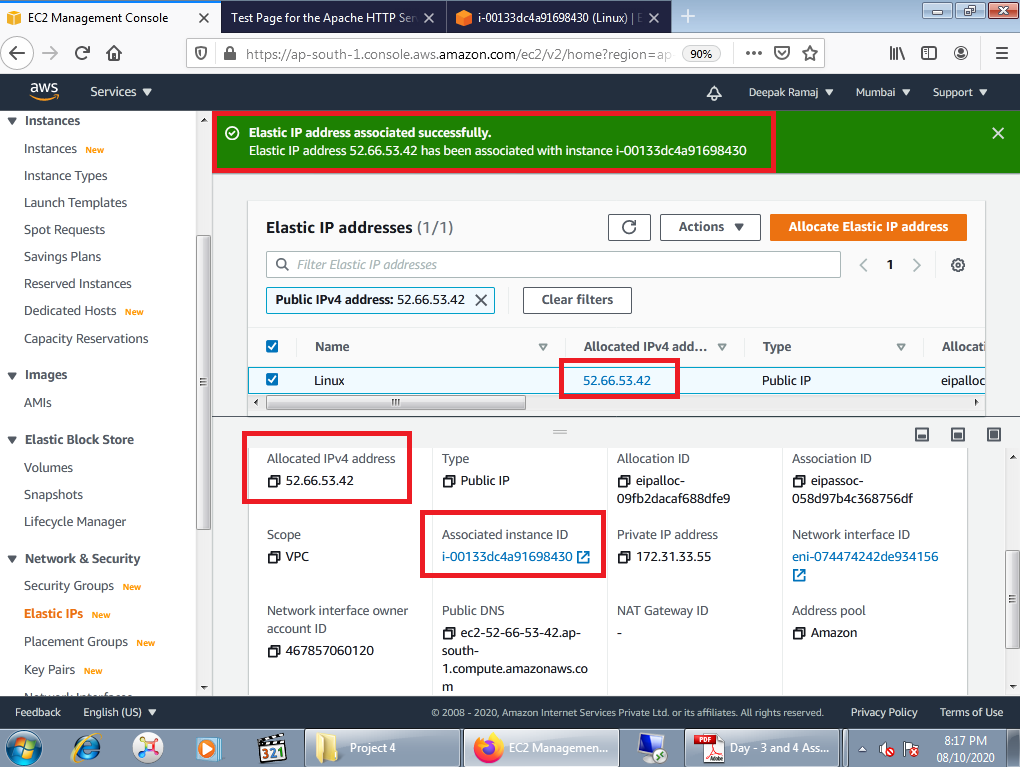


Fig 4.3 Elastic IP creation and associated with Linux instance

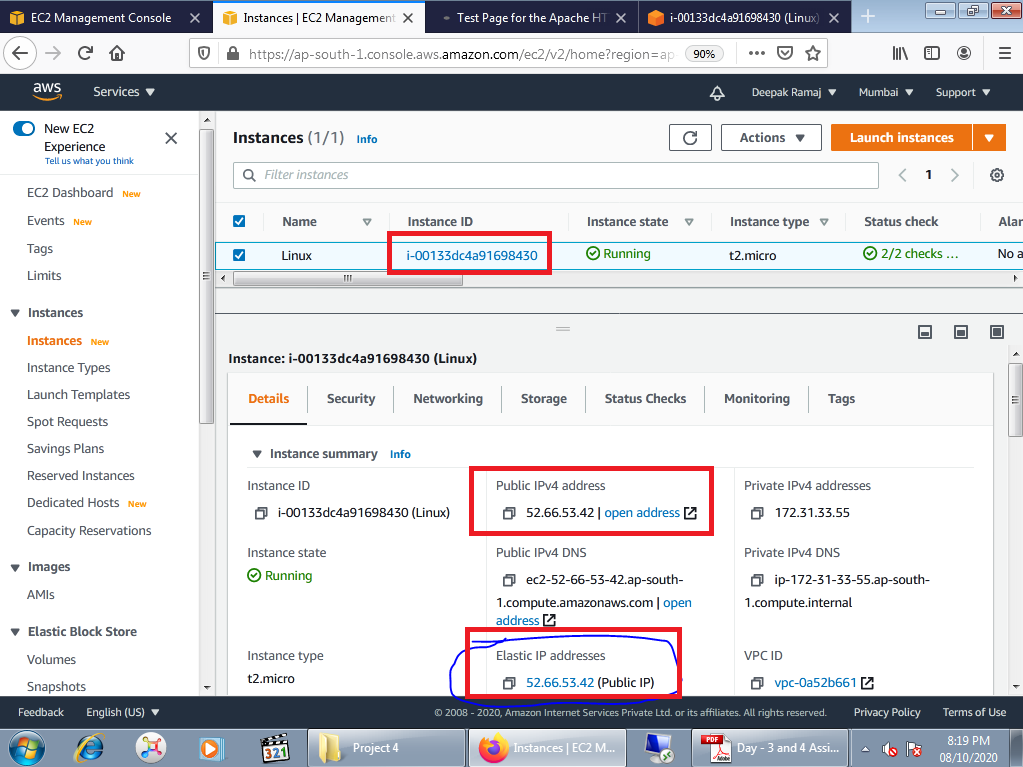


Fig 4.4 Associated elastic IP

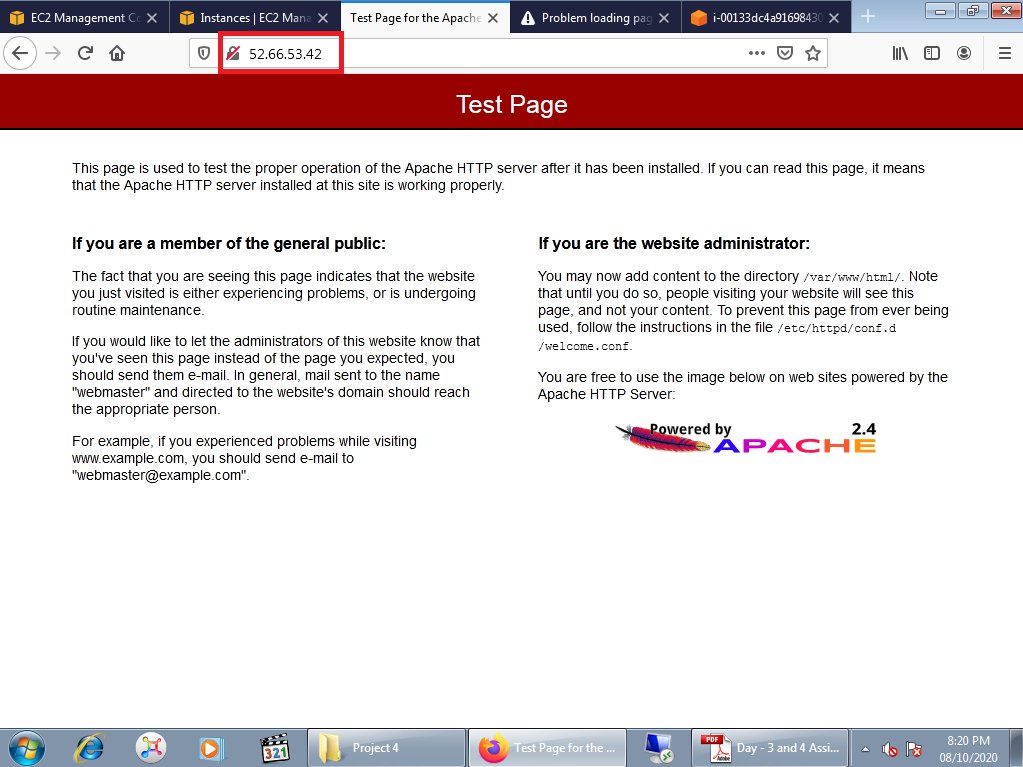


Fig 4.5 Launched Apache server using Elastic IP

**Project 5:** Working with S3

A. working with S3-.jpg

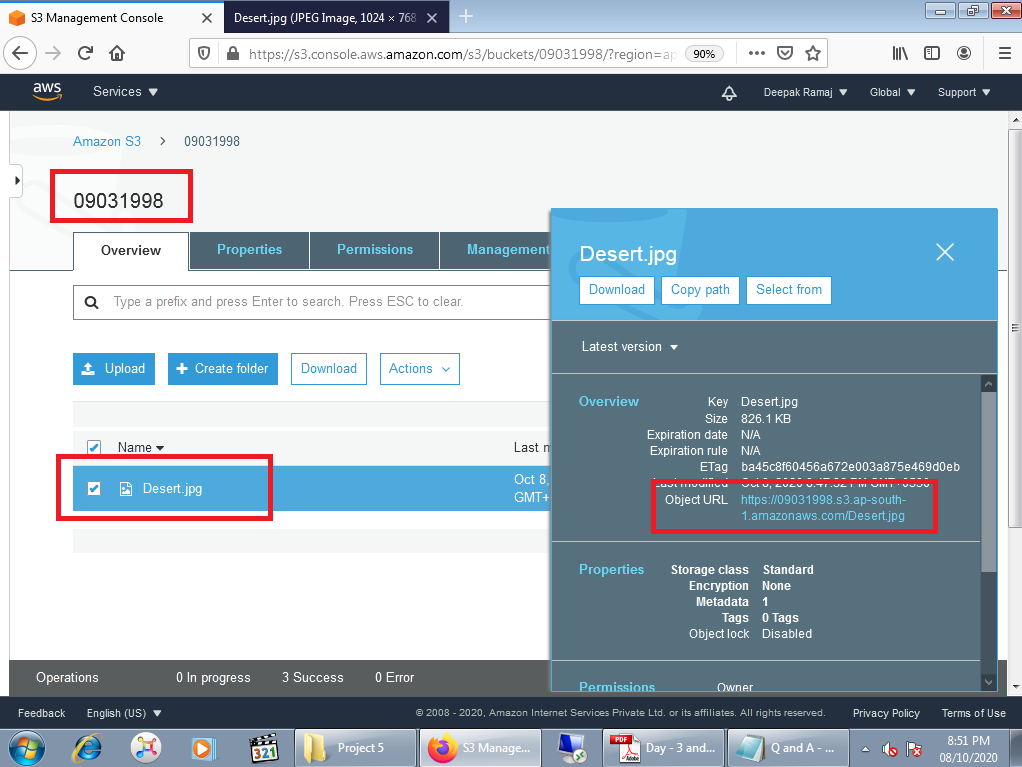


Fig. 5.1 Created S3 bucket and uploaded .jpg file

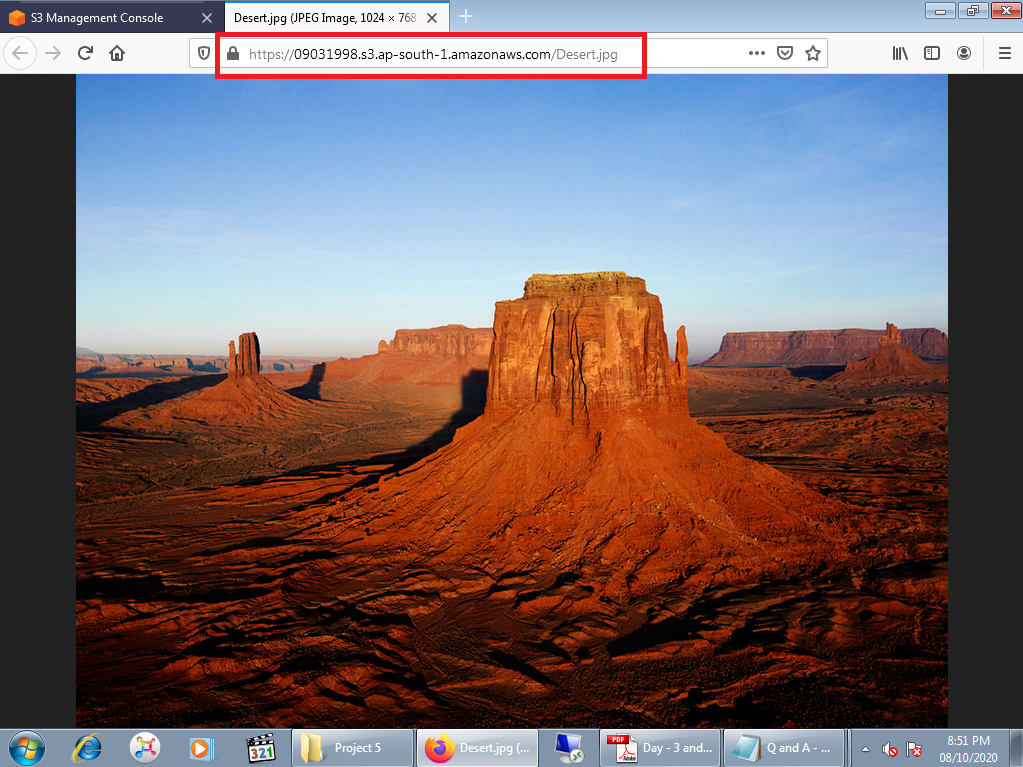


Fig 5.2 Launched and opened uploaded file using object URL

B. Static web hosting

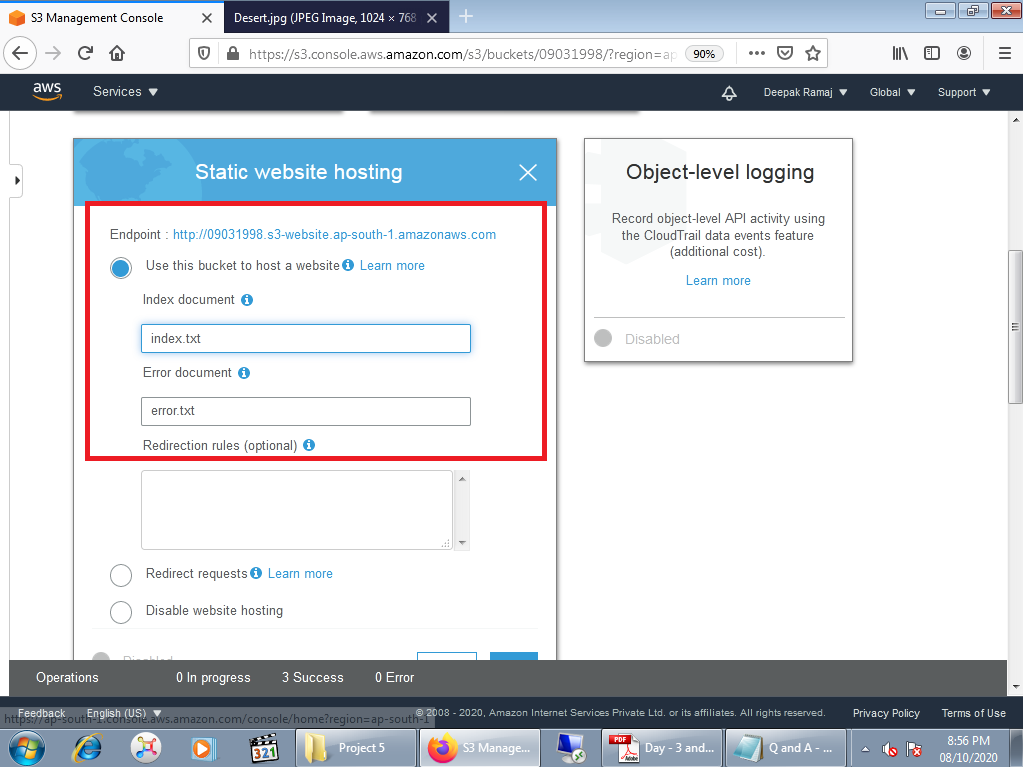


Fig 5.3 Static web hosting

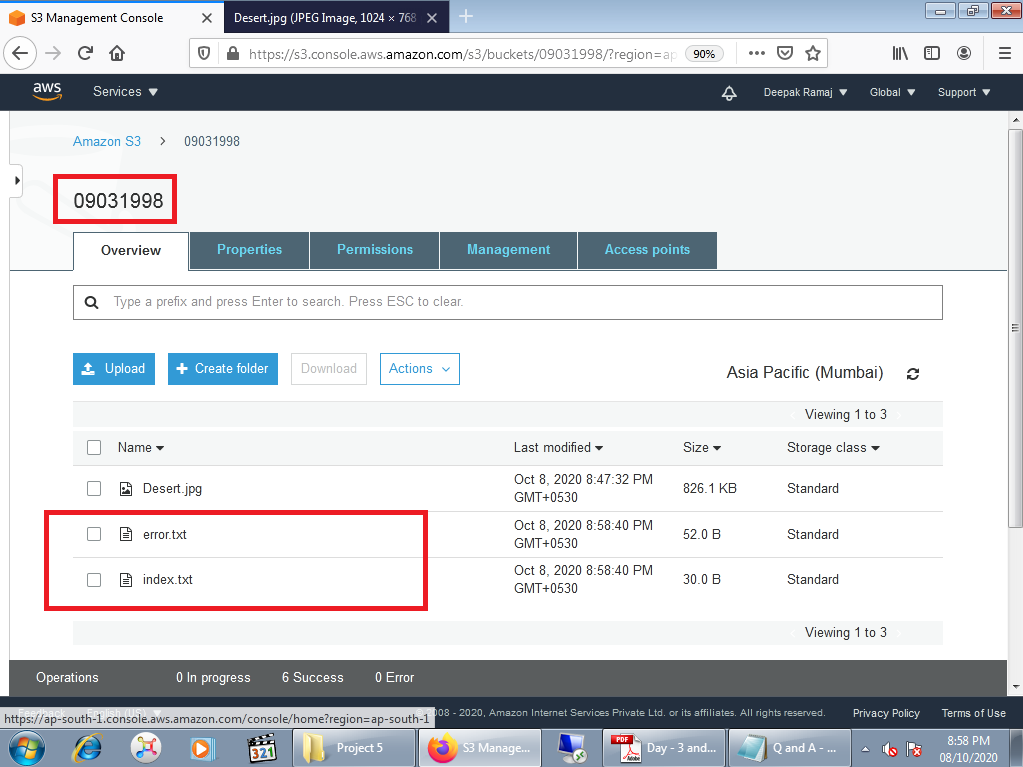


Fig 5.4 Uploaded index.txt and error.txt file in bucket

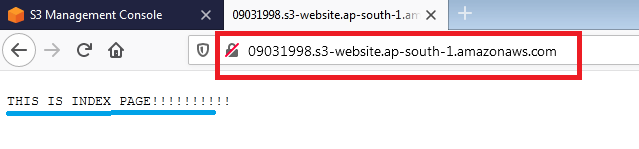


Fig 5.5 Launched index.txt file using endpoint URL

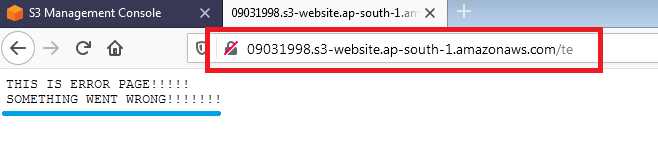


Fig 5.6 Launched error.txt file by making changes in endpoint URL

C. Versioning:

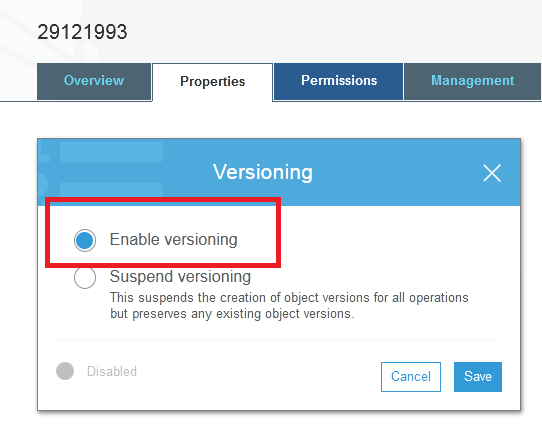


Fig 5.7 Enabling versioning

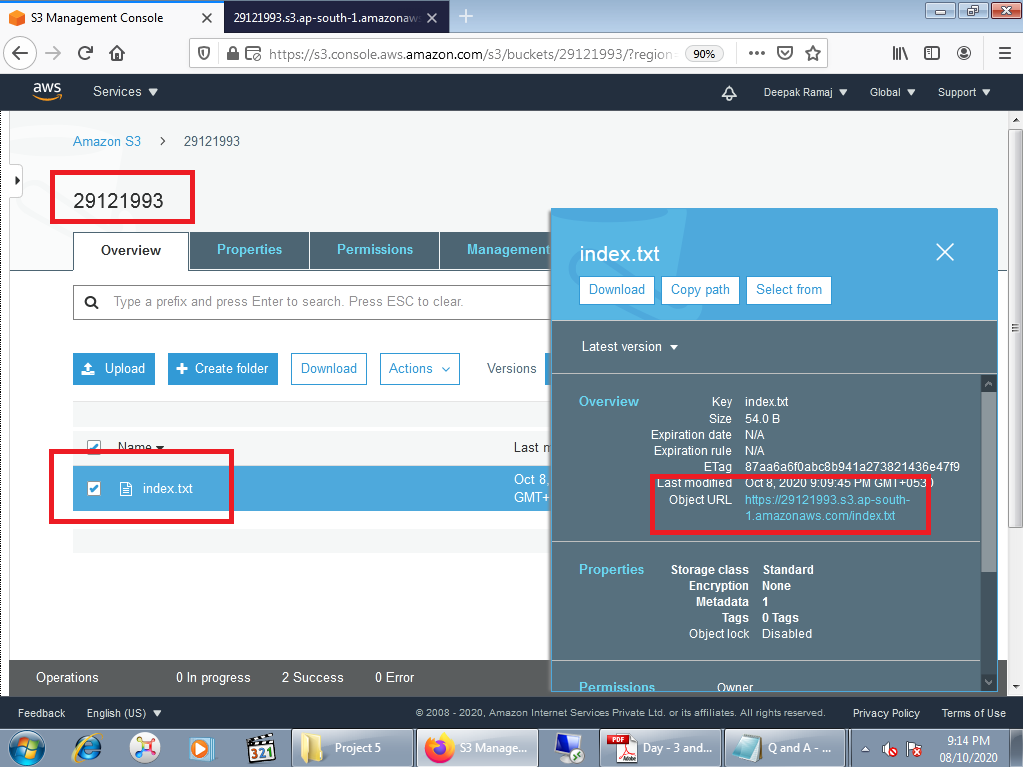


Fig 5.8 Uploaded index.txt file in bucket

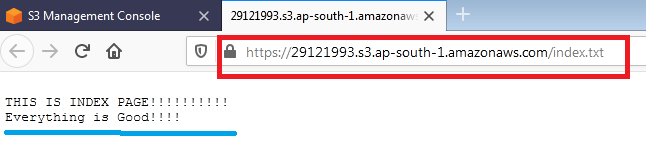


Fig 5.9 Launching index.txt file

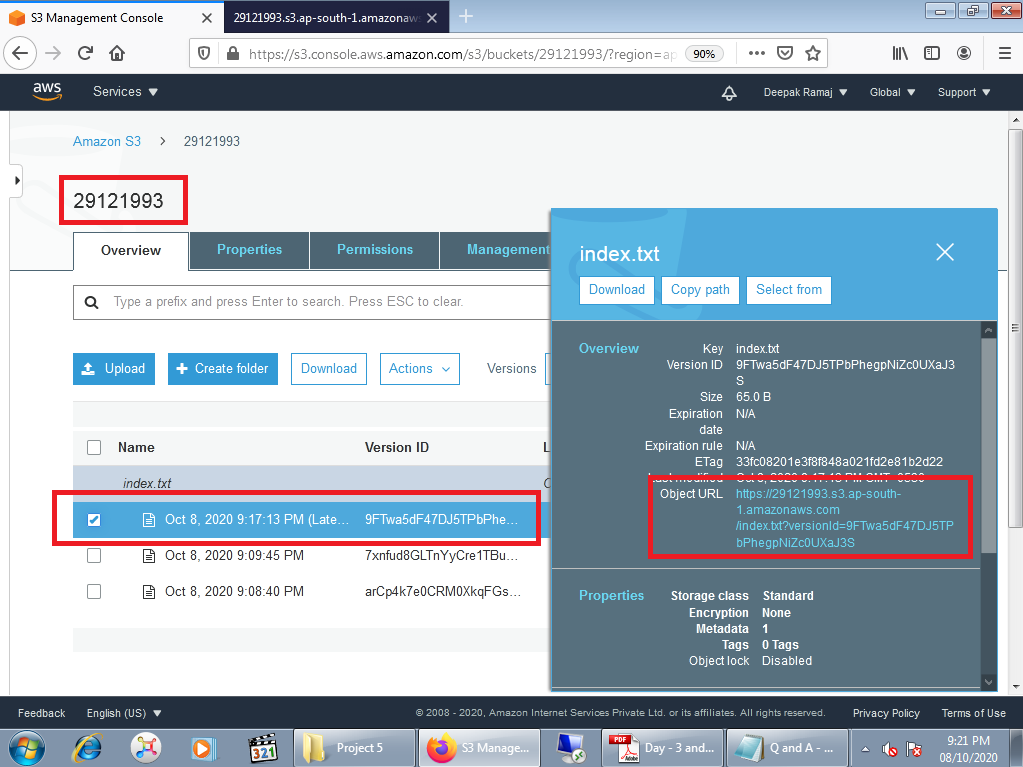


Fig 5.10 showing the versions of uploaded file

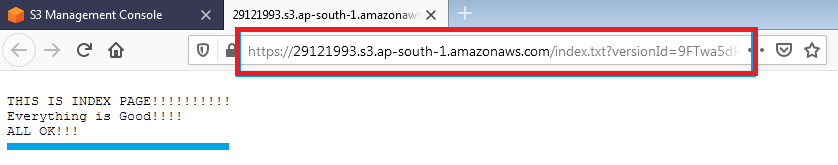


Fig 5.11 launched the latest version of file

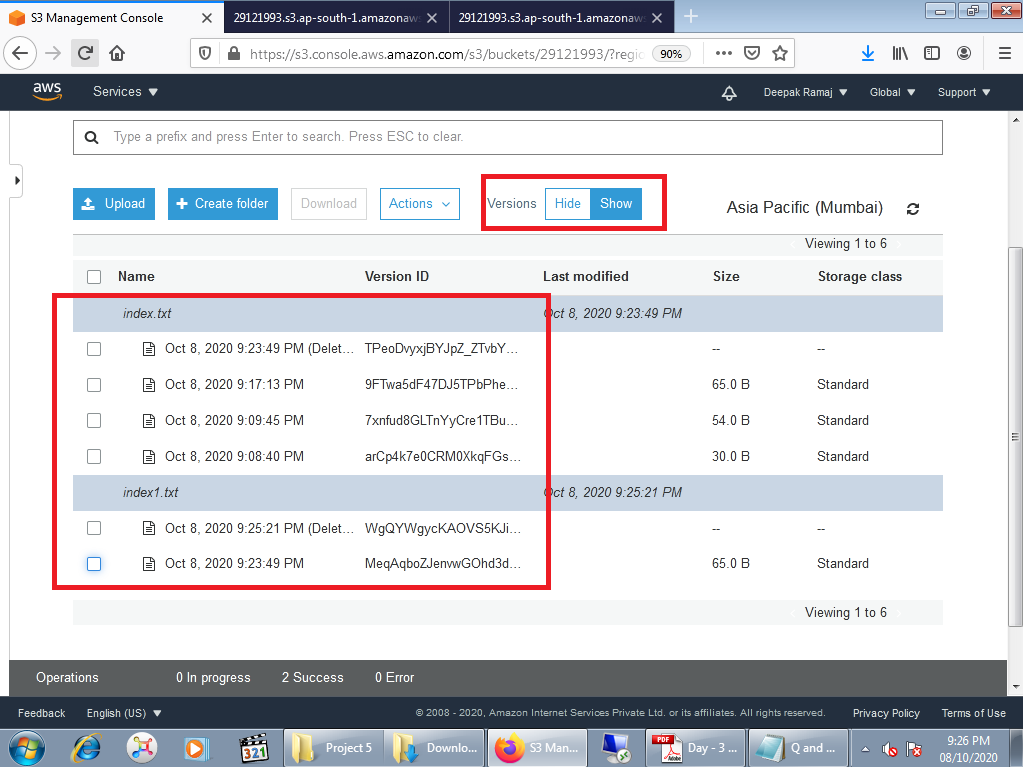


Fig 5.12 Different versions of file

**QUESTION 1:**

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

Answer:

Scenario 1- Reboot instance

After **rebooting** the instance **public IP** and **private IP** will **not change** and also **able** to **launch the applications** installed on server from same public IP.

Scenario 2- Stop and Start instance

After **stop and start** the instance the **public IP** is getting **changed** but the **private IP** will **not change**. The **applications** installed are only **accessible** from changed public IP.

Scenario 3- terminating the instance

After **terminating** the instance the public IP, private IP and applications installed on server will no longer able to access.

In short:

1. Rebooting instance:

Private IP - Will not change

Public IP- Will not change

Applications installed – Are accessible from public IP

1. Stop-Start instance:

Private IP - Will not change

Public IP- Will change

Applications installed - Are accessible only from changed public IP (new IP after restart).

1. Terminate instance: ( Instance will be deleted permanently)

Private IP – Not able to access

Public IP- Not able to access

Applications installed - Not able to access