Experiment No: 1 (A)

Aim: To develop a website and host it on local machine or virtual machine and Amazon S3 Bucket

STATIC HOSTING:

1) On local server (XAMPP)

Step 1: Install XAMPP from https://www.apachefriends.org/

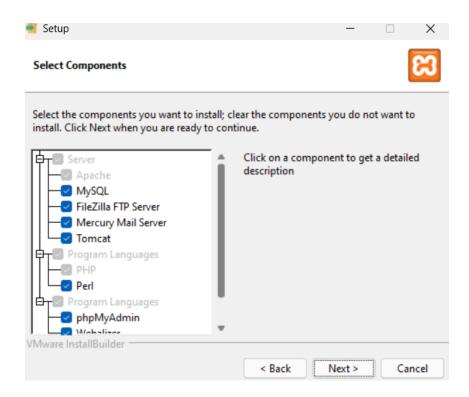
a) Select your OS. It will automatically start downloading



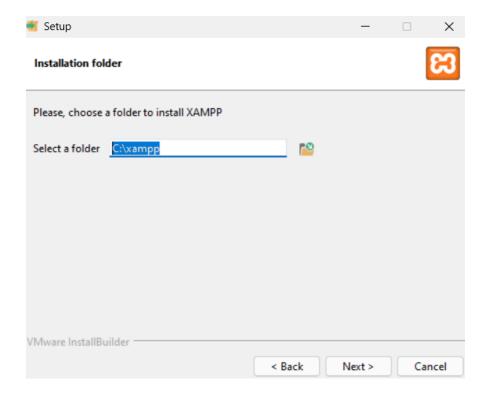
b) Open the setup file. Click on Next



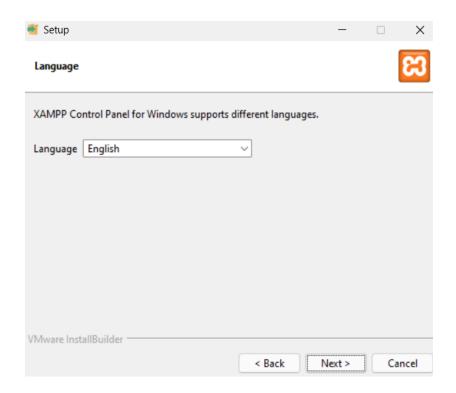
c) Select all the required components and then click on next



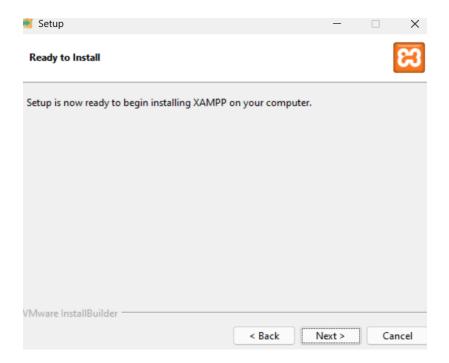
d) Choose the folder to install XAMPP in. Make sure the folder is empty. Click on next



e) Select the language, click next. XAMPP starts to install



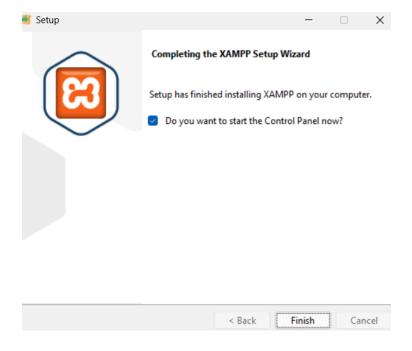
f) Now it will ask user for final confirmation for installing thus Click on Next



g) Wait until unpacking of all files is done



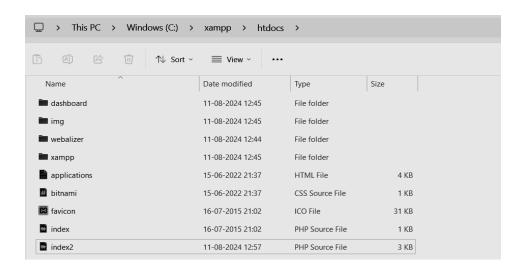
h) The installation is complete. Click on Finish



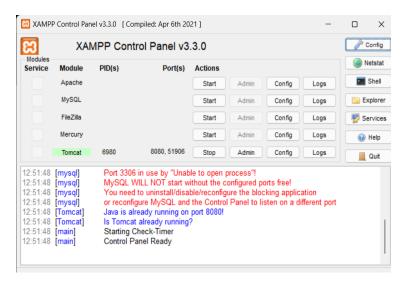
Step 2: Setup a file that is to be hosted on the server. Make sure the file has extension .php

Name	Date modified	Туре	Size
index	04-08-2024 18:02	HTML File	3 KB
index2	11-08-2024 12:57	PHP Source File	3 KB

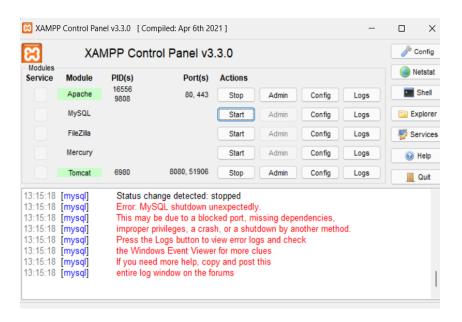
Step 3: Go to the directory where XAMPP was installed. Go to htdocs folder. Place your folder in this directory i.e Paste the index2.php here



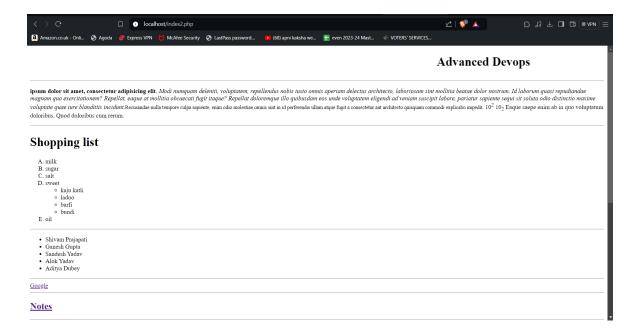
Step 4: Open XAMPP Control Panel, start the Apache service (Required) and mySQL service (if needed)



Click on Start button corresponding to Apache

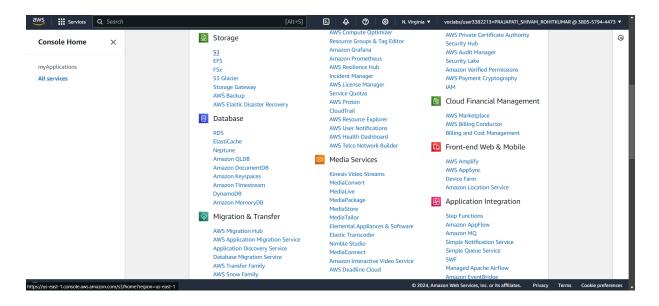


Step 5: Open your web browser. Type localhost/index2.php in the browser. This will open your website on your browser.

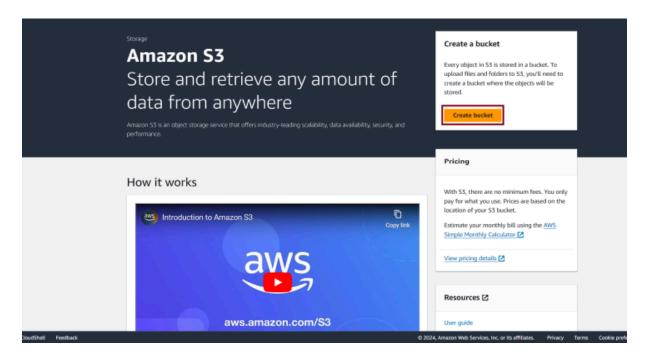


2) On AWS S3

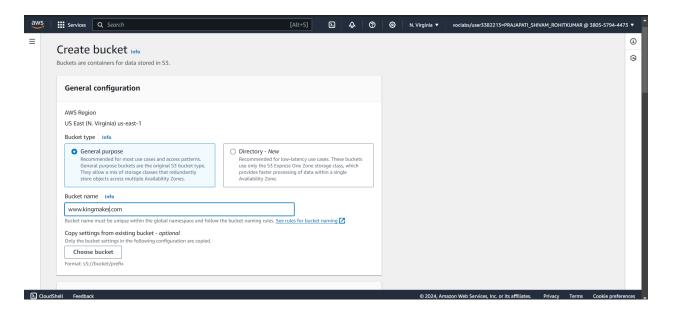
Step 1: Login to your AWS account. Go to services and open S3.

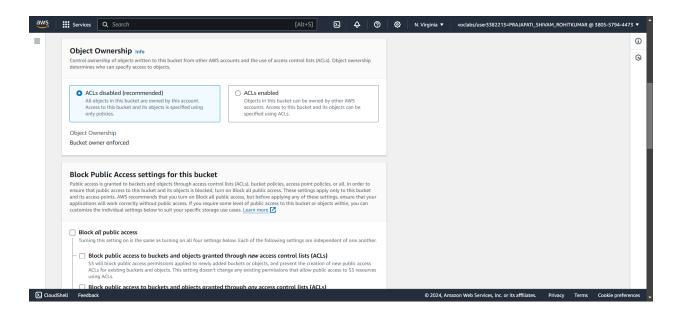


Step 2: Click on Create Bucket

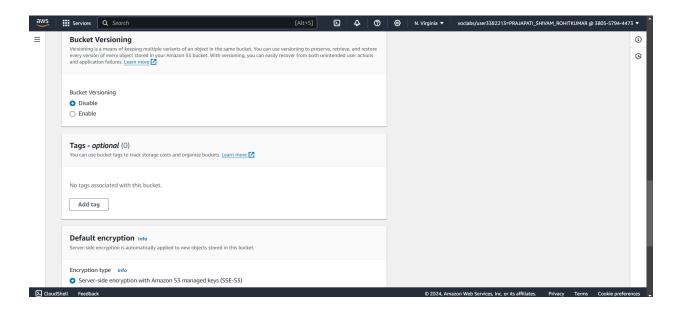


Step 3: Give a name to your bucket, keeping other options default like bucket type as general purpose, scroll down and click on Create Bucket

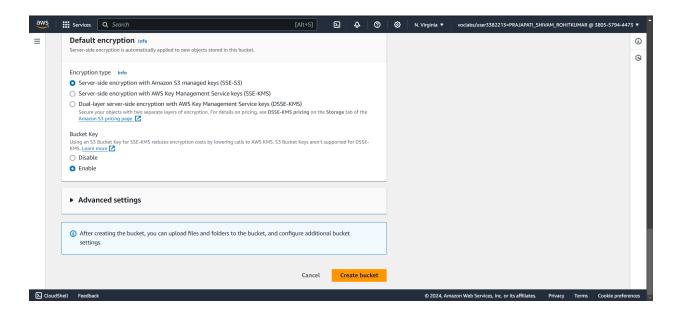




Uncheck the box under Block Public Access settings if it is checked because we want bucket to be publicly accessed

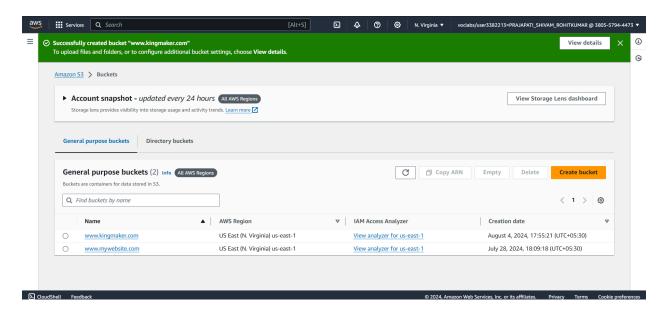


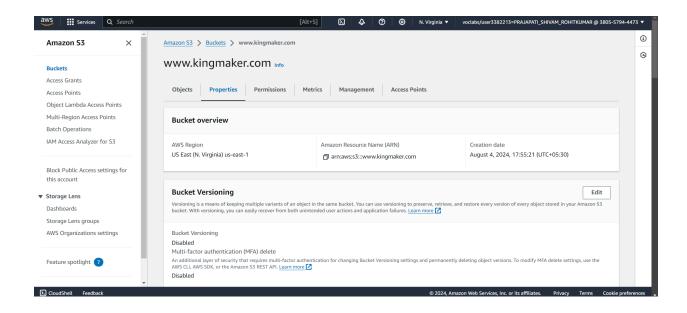
Keep the Bucket Versioning disabled as we dont want variants of an object to the same bucket.



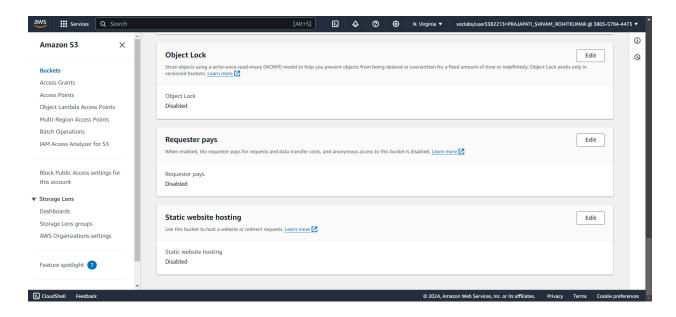
Click on Create Bucket

Step 4: Click on the name of your bucket and goto Properties.

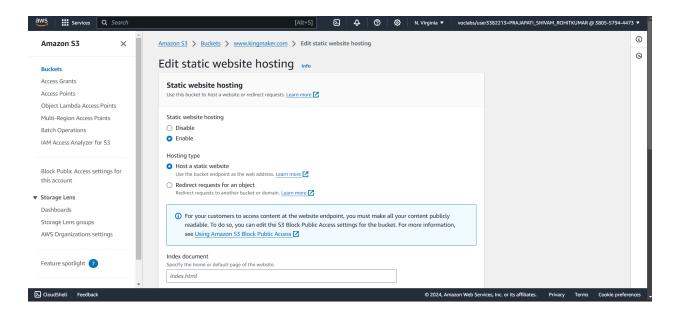




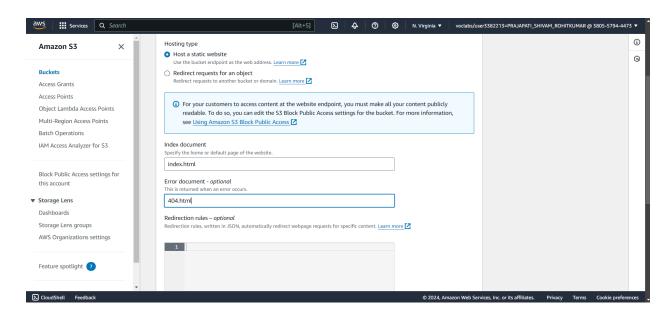
Step 5: Scroll down till you find Static website hosting, click on edit



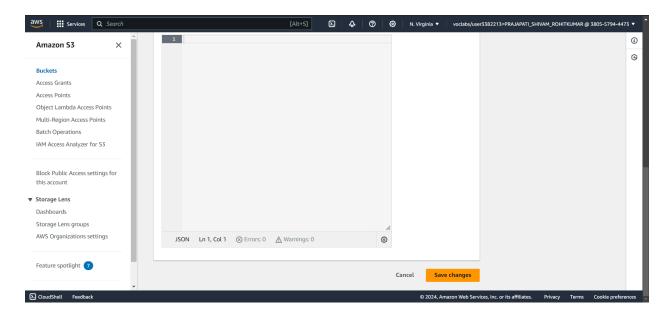
Step 6: Click on Enable static website hosting because we want to host our static website to the bucket

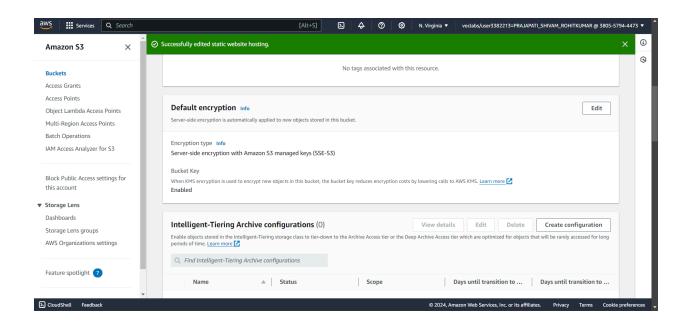


Step 7: Write the name of your document which you wanted to host on AWS from your local folder and in error document, give name as 404.html. Save your changes.

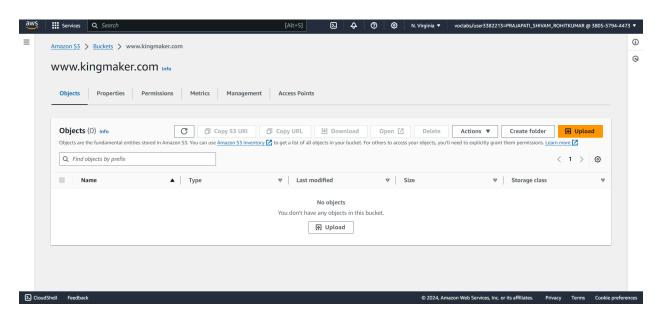


Step 8: Click on Save Changes

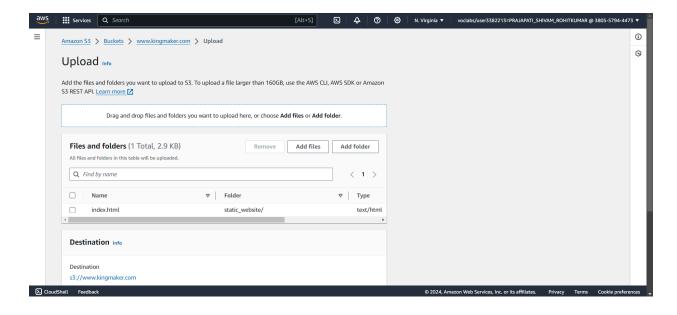




Step 9: Go to Objects tab and click on upload file to upload file to your bucket

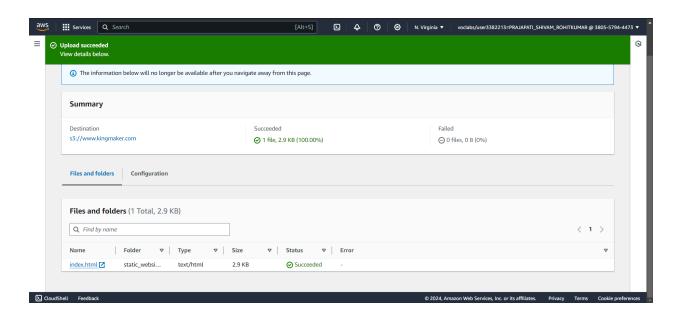


Step 10: Click on Add files. Add all the files you want to upload. Then scroll down and click on Upload

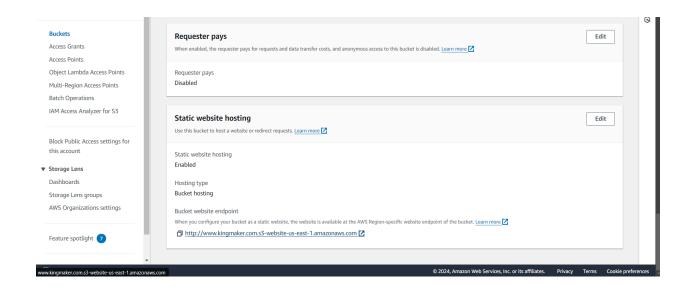


aws	Services	Q Search		[Alt+S]	D 4 0	0	N. Virginia ▼	voclabs/user3382213=PRAJAPATI_SH	IVAM_ROHITI	KUMAR @	3805-5794-447	3 ▼ ˆ
=	Files ar	nd folders (1 Total, 2.9 KB)	Remove	Add files	Add folder							(i)
	All files an	d folders in this table will be uploaded.										0
	Q Find	l by name			< 1 >							
	- 1	Name	7 Folder		▼ Type							
	Destina	ation _{Info}										
	Destinati	on										
	s3://wwv	w.kingmaker.com										
		nation details t settings that impact new objects stored in the spec	ified destination.									
	▶ Permissi Grant pub	ions lic access and access to other AWS accounts.										
	▶ Properti Specify ste	es orage class, encryption settings, tags, and more.										
				Canc	el Upload							
∑ Clo	ıdShell Feedba	ock					© 2024, Am	azon Web Services, Inc. or its affiliates.	Privacy	Terms	Cookie prefere	nces

Click on Upload



Step11: This will take you to the Objects screen. Switch to Properties, scroll down to Static web hosting. There you would find the link (Bucket website endpoint) to your website.



Step12: Open the link. It will show a 403 forbidden error screen as the contents of the bucket are not available for the public users. To change this, go to Permissions tab, go to Block public access and click on edit

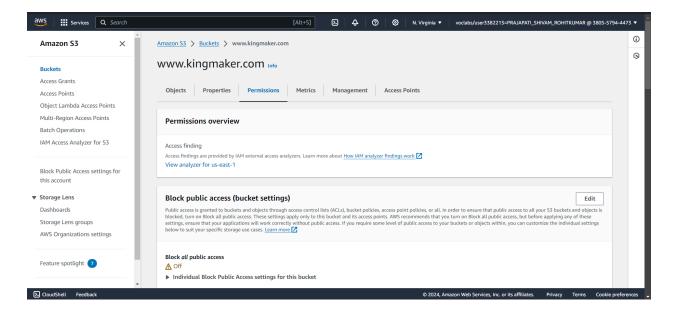
403 Forbidden

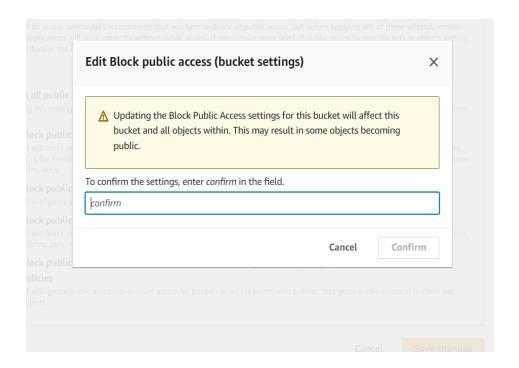
- Code: AccessDenied
- · Message: Access Denied
- RequestId: 8TQ4EGP4TK06MVPB
- HostId: hF+ToadQUoCuDM8H+iFRsXdA28TGp+xikYbjb4CICS/t+3it4ihA/tvgA1Xr1xo+JL5AhkT6hJs=

An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- · Message: Access Denied

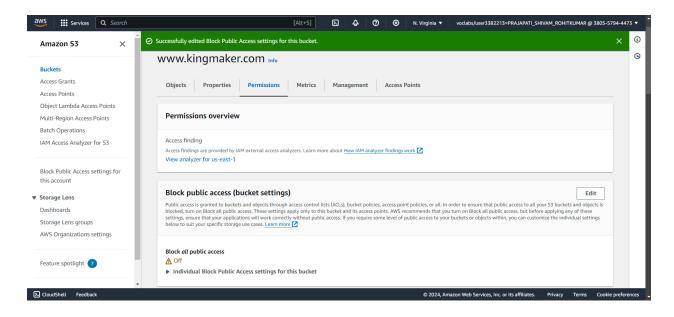
Step 13: Uncheck the Block all public access checkbox and click on save changes





Type confirm in the given field and click on confirm button as shown above

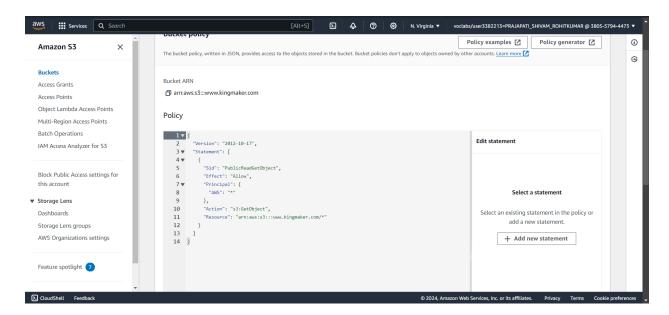
Step 14: Successfully Changed the Settings



Step 15: Scroll down to bucket policy and click edit and paste the code from given Github Link https://gist.github.com/Savjee/b4b3a21d143a30e7dc07

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
        "Sid": "PublicReadGetObject",
        "Effect": "Allow",
        "Principal": {
            "AWS": "*"
        },
        "Action": "s3:GetObject",
        "Resource": "arn:aws:s3:::YOUR-BUCKET-NAME-HERE/*"
      }
    ]
}
```

Paste this code snippet in the policy textarea. Replace YOUR-BUCKET-NAME-HERE with the name you have given to your bucket. Save the changes



Step 16: Now reload the website. You can see your website

