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 1. Open Amazon S3

1. Login to AWS Console
  2. Search for S3
  3. Open Amazon S3 Dashboard
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 2. Create a New Bucket

1. Click Create bucket
2. Enter a unique bucket name (example: harismita-website-2025)
3. Region → Choose the same region you always use (e.g., N. Virginia)
4. Scroll to *Block Public Access*
5. Uncheck  "Block all public access"
6. Tick the warning box
7. Click Create bucket

 Your bucket is created.

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 3. Enable Static Website Hosting

1. Click your bucket name
  2. Go to Properties tab
  3. Scroll to Static website hosting
  4. Click Edit
  5. Choose → Enable
  6. Hosting type → Host a static website
  7. Index document → index.html
  8. Click Save changes
- 

 4. Create index.html File

On your laptop, create a simple website file:

```
<html>
```

```
<body>
```

```
<h1>Hello World from Harismita 💙</h1>
</body>
</html>
```

Save it as: index.html

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✓ 5. Upload index.html to the Bucket

1. Open your bucket → Objects tab
2. Click Upload
3. Add files → select index.html
4. Scroll → Click Upload

✓ The file is uploaded.

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✓ 6. Make index.html Public

1. Open the object: index.html
2. Click Permissions
3. Scroll to Block Public Access
4. It must show “Off”
5. Scroll down → Click Edit under *Object Ownership*
6. Make sure ACLs enabled (not “bucket owner enforced”)
7. Now under Access Control List (ACL) →  
Check ✓ Everyone (public access) → Read
8. Save changes

✓ The file is now public.

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✓ 7. Add Bucket Policy (Public Read Access)

1. Go to Bucket → Permissions
2. Open the Permissions tab
3. At the top → Click Permissions.
3. Find “Block Public Access (bucket settings)”
4. Scroll down until you see:  
 Block Public Access (Bucket settings)

- 5. 4. Click: Edit**
- 6. 5. Uncheck ALL 4 options**
7. And save
8. Scroll to Bucket Policy → Edit
9. Paste this policy (Replace BUCKET-NAME):

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

4. Click Save

✓ Public read access is now enabled for all files.

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#### ✓ 8. Access Your Website

1. Go to Properties → Static Website Hosting
2. Copy the Website endpoint URL
3. Paste in your browser

🌐 Your S3 website is live publicly!

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#### ✓ 9. Generate a Pre-Signed URL

Used when you want to share a private object securely.

1. Go to your bucket
2. Select any object (ex: index.html or another file)
3. Click Actions → Share with pre-signed URL

4. Choose expiry time (ex: 1 hour)
  5. Click Create pre-signed URL
- ✓ You get a secure link → shareable only for limited time.
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✓ 10. Enable Versioning

1. Open the bucket
2. Go to Properties
3. Scroll to Bucket Versioning
4. Click Edit
5. Choose → Enable
6. Click Save changes

✓ Versioning is ON.

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✓ 11. Upload Updated index.html (New Version)

1. Modify index.html (write "Hello World V2")
2. Upload it to the same bucket with same name
3. Click Upload → It will NOT replace the old one  
→ Instead, creates a new version

✓ Your file now has Version 2.

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✓ 12. View Version IDs

1. In your bucket → Objects
2. Click Show versions (top right)
3. You will see:
  - Version 1 ID
  - Version 2 ID

This completes your versioning experiment.