

PROJECT TITLE

STATIC WEBSITE HOSTING

By

NAGARATHINAM.PL

AWS

(AMAZON WEB SERVICE) IN

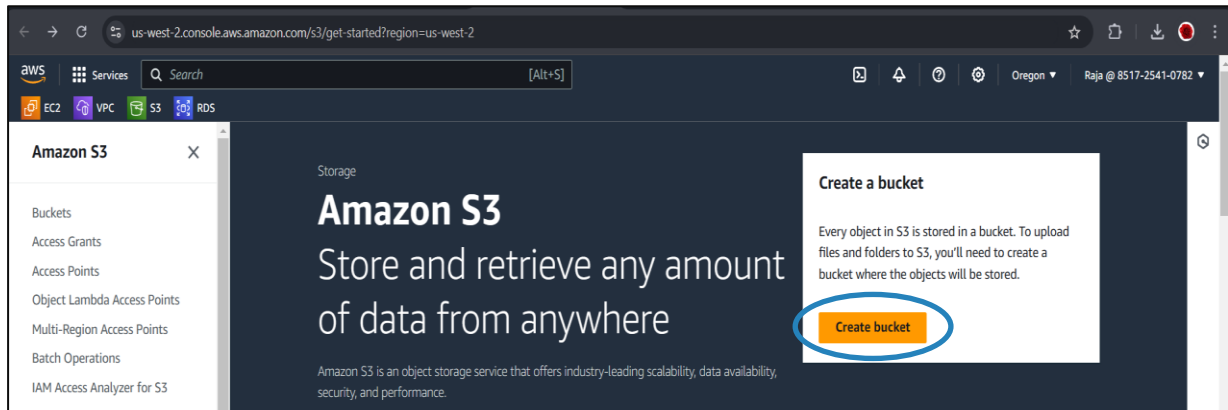
CLOUD COMPUTING

Static Website Hosting Using AWS

To create the static website in AWS

First Step:

First create the **Bucket** in **Amazon S3**.



Create a Unique **Name for the Bucket** and the select the **Bucket type**.

Create bucket Info

Buckets are containers for data stored in S3.

General configuration

AWS Region
US West (Oregon) us-west-2

Bucket type Info

☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory**
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name Info

mychocolux-bucket

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Next select the **ACLs enable** option on the Object Ownership slot.

Object Ownership [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☐ **ACLs disabled (recommended)**

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☒ **ACLs enabled**

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

And Click the **Create Bucket** Button.

Default encryption [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type [Info](#)

- ☒ Server-side encryption with Amazon S3 managed keys (SSE-S3)
- ☐ Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- ☐ Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the **Storage** tab of the [Amazon S3 pricing page](#).

Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

- ☐ Disable
- ☒ Enable

Advanced settings

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel

Create bucket

Now, the Bucket is created.

General purpose buckets (1) [Info](#) All AWS Regions

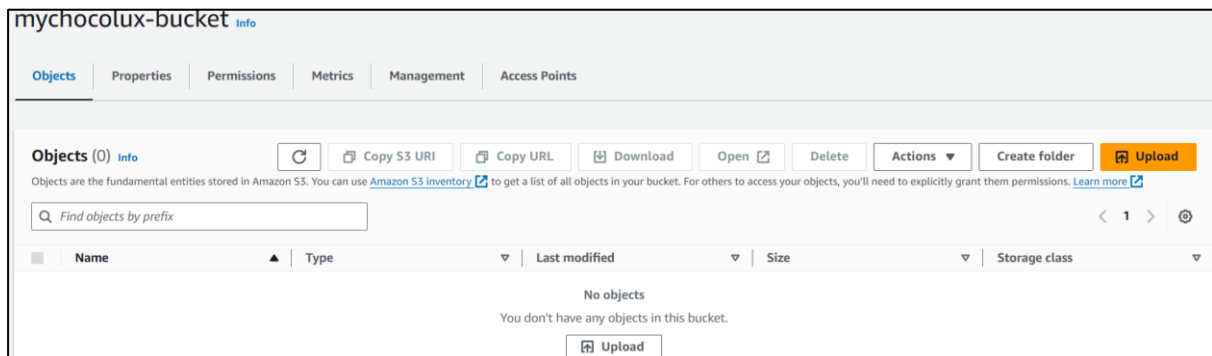
Copy ARN Empty Delete Create bucket

Buckets are containers for data stored in S3.

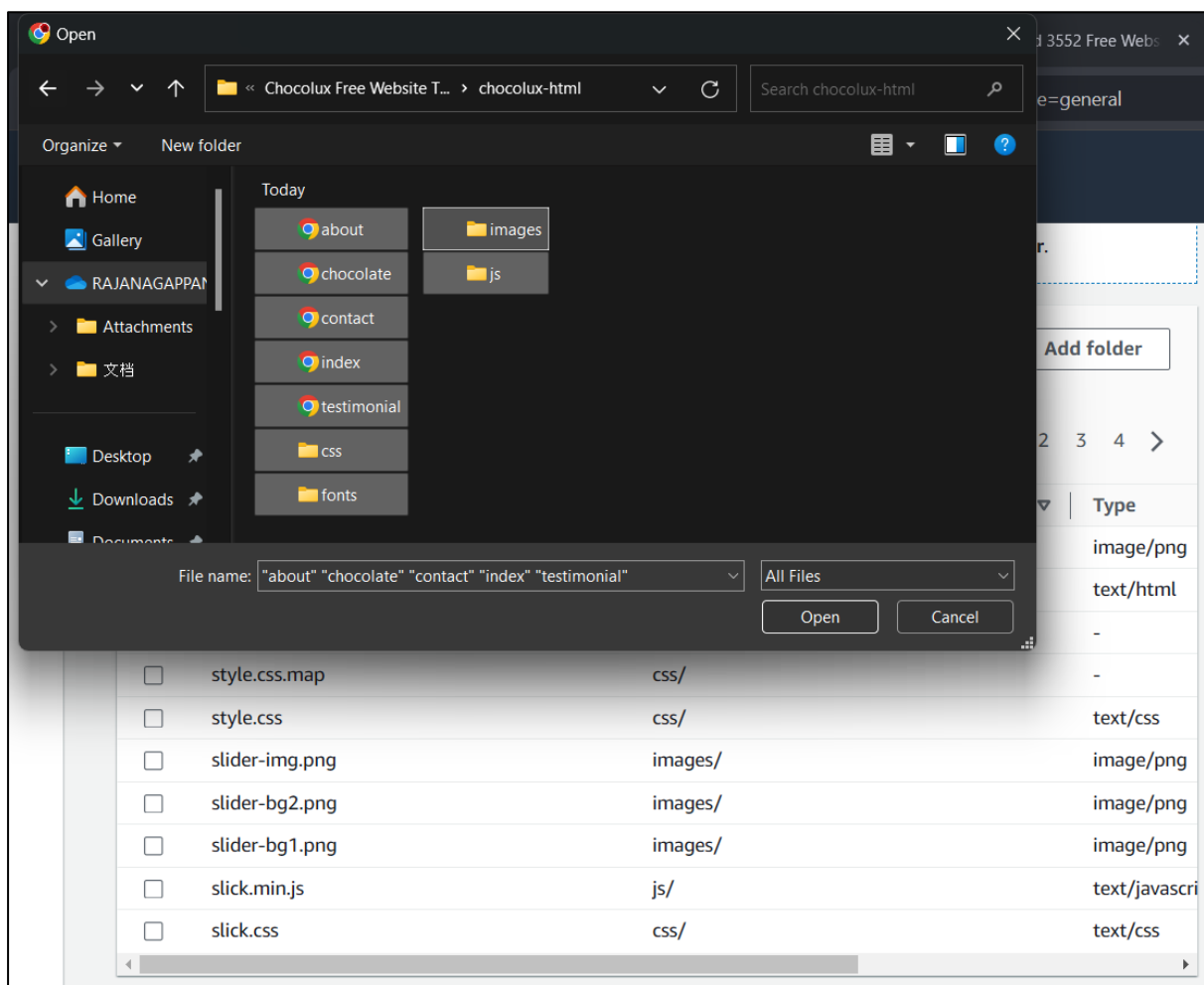
Name	AWS Region	IAM Access Analyzer	Creation date
mychocolux-bucket	US West (Oregon) us-west-2	View analyzer for us-west-2	August 30, 2024, 12:23:18 (UTC+05:30)

Second Step:

Now click the Created Bucket in S3.



And Upload the Website Templet files or Created Websites files from your gallery, just **Drag and Drop the all Files** from the gallery to S3 Bucket.



Click the Upload Button.

Upload

Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (36 Total, 1.8 MB)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

Find by name

<

1

2

3

4

>

<input checked="" type="checkbox"/>	Name	Folder	Type
<input checked="" type="checkbox"/>	chocolate.html	-	text/html
<input checked="" type="checkbox"/>	contact.html	-	text/html
<input checked="" type="checkbox"/>	index.html	-	text/html
<input checked="" type="checkbox"/>	testimonial.html	-	text/html
<input checked="" type="checkbox"/>	about.html	-	text/html
<input checked="" type="checkbox"/>	bootstrap.css	css/	text/css

Destination

Info

Destination

s3://mychocolux-bucket

► Destination details

Bucket settings that impact new objects stored in the specified destination.

► Permissions

Grant public access and access to other AWS accounts.


► Properties

Specify storage class, encryption settings, tags, and more.

Cancel

Upload

After Uploaded all files, these files will run to the bucket and ready for website host.

 **Upload succeeded**
View details below.

Files and folders (36 Total, 1.8 MB)

Name	Folder	Type	Size	Status	Error
color-arrow...	images/	image/png	394.0 B	Succeeded	-
insta-img.pn...	images/	image/png	2.5 KB	Succeeded	-
offer-img.pn...	images/	image/png	65.5 KB	Succeeded	-
slider-bg1.p...	images/	image/png	72.5 KB	Succeeded	-
slider-bg2.p...	images/	image/png	151.7 KB	Succeeded	-
slider-img.p...	images/	image/png	112.6 KB	Succeeded	-
white-arrow...	images/	image/png	348.0 B	Succeeded	-
bootstrap.js	js/	text/javascript	133.6 KB	Succeeded	-
custom.js	js/	text/javascript	950.0 B	Succeeded	-
jquery-3.4.1...	js/	text/javascript	86.1 KB	Succeeded	-

Third Step:

Then, Create the **Instance in EC2** and **Launch an Instance** and add the Name to Instance.

Launch an instance [Info](#)
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)
Name
 [Add additional tags](#)

Select the OS to run the Instance (we the Amazon Linux).


▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below


Search our full catalog including 1000s of application and OS images

Quick Start


Amazon Linux




macOS




Ubuntu




Windows




Red Hat



SUSE Li





Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

Free tier eligible ▼

ami-02d3770deb1c746ec (64-bit (x86), uefi-preferred) / ami-018360301dddadc80 (64-bit (Arm), uefi)

Virtualization: hvm ENA enabled: true Root device type: ebs

Select the **Instance Type** and Create new **Key Pair** for the Instance.

▼ Instance type [Info](#) | [Get advice](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0116 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

☒ All generations

[Compare instance types](#)


Additional costs apply for AMIs with pre-installed software

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

chocokeypair ▼

 [Create new key pair](#)

Keep it us the **Network Setting** in Default only.

▼ Network settings Info

VPC - required Info

vpc-02ba067a19529d703
172.31.0.0/16

(default) ▼

↻

Subnet Info

No preference ▼

↻ Create new subnet [↗](#)

Auto-assign public IP Info

Enable ▼

Additional charges apply when outside of free tier allowance

Security group name - required

launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and . _ - / () # , @ [] + = & ; { } ! \$ *

Description - required Info

launch-wizard-1 created 2024-08-30T06:36:33.821Z

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 80, 183.82.24.123/32) Remove

Type Info

HTTP ▼

Protocol Info

TCP

Port range Info

80

Source type Info

My IP ▼

Name Info

🔍 Add CIDR, prefix list or security

183.82.24.123/32 ✕

Description - optional Info

e.g. SSH for admin desktop

▼ Security group rule 2 (TCP, 443, 183.82.24.123/32) Remove

Type Info

HTTPS ▼

Protocol Info

TCP

Port range Info

443

Below to Network Setting, Use **Data** box will there fill some **Common Line** on that box to run the Instance.

User data - optional [Info](#)

Upload a file with your user data or enter it in the field.

Choose file

```
#!/bin/bash
yum update -y
yum install -y httpd
systemctl start httpd
systemctl enable httpd
```

☐ User data has already been base64 encoded

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...[read more](#)

ami-02d3770deb1c746ec

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year

Cancel

Launch instance

[Review commands](#)

Instances (1) Info									
Last updated less than a minute ago				Connect	Instance state ▼	Actions ▼	Launch instances ▼		
<input type="text" value="Find Instance by attribute or tag (case-sensitive)"/>				All states ▼		< 1 > ⚙			
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv	
<input type="checkbox"/>	mychocolux-in...	i-00b9f08555a0f4a17	Running	t2.micro	Initializing	View alarms	us-west-2b	ec2-35-85	

Connect Using EC2 Instance Connect.

Instance ID

i-00b9f08555a0f4a17 (mychocolux-instant)

Connection Type

☒ Connect using EC2 Instance Connect

Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ Connect using EC2 Instance Connect Endpoint

Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

35.85.52.253

Username

Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ec2-user.

ec2-user

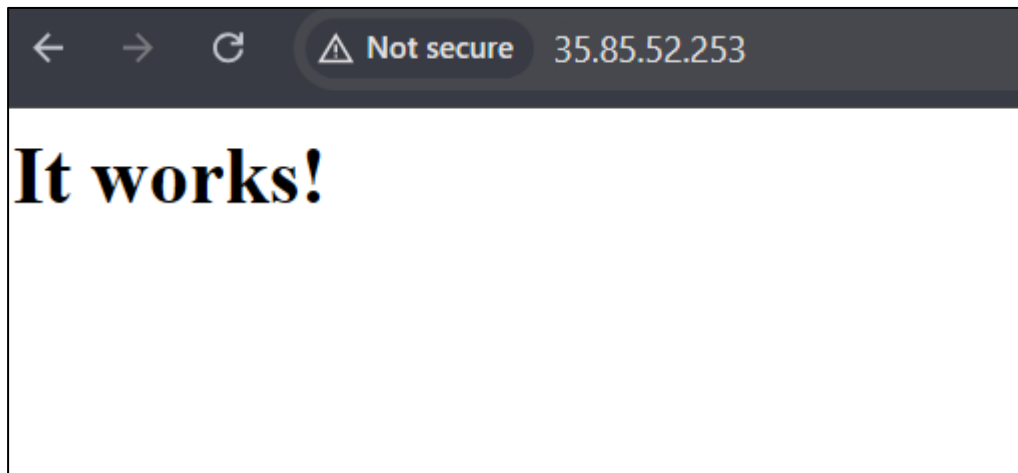
Note:

In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel

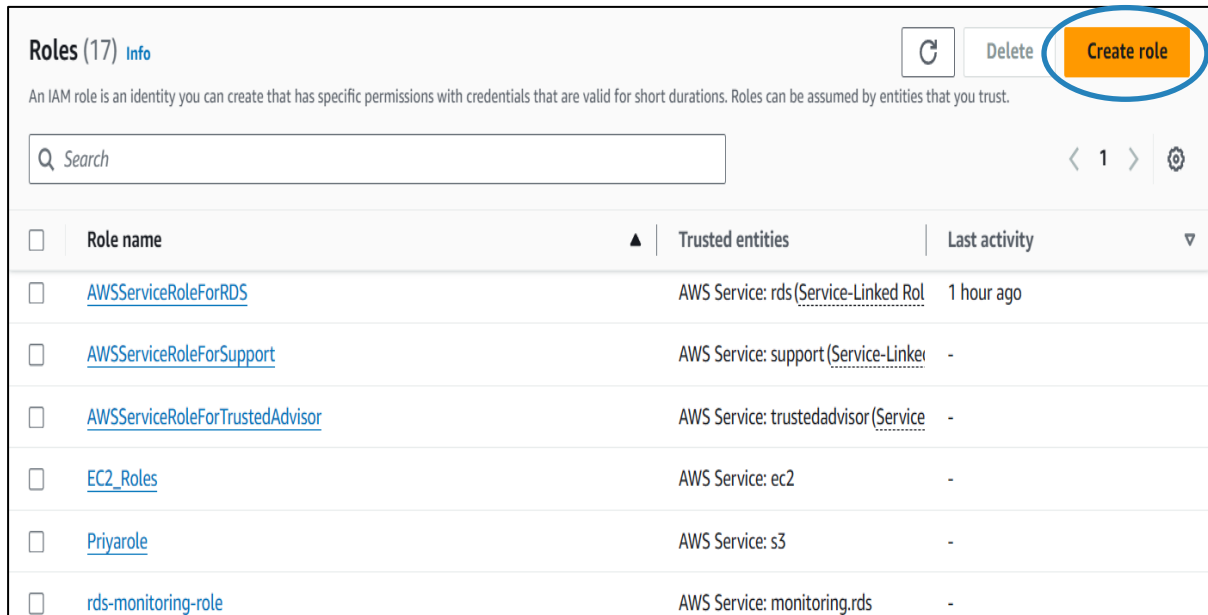
Connect

Copy the **Public IP Address**.



Fourth Step:

Create the **Role** in IAM (Identity and Access Management) for connect the **Instance**



Trusted entity type

☒ **AWS service**

Allow AWS services like EC2, Lambda, or others to perform actions in this account.

☐ **AWS account**

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

☐ **Web identity**

Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

☐ **SAML 2.0 federation**

Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

☐ **Custom trust policy**

Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case

EC2

Choose a use case for the specified service.

Use case










☒ **EC2**

Allows EC2 instances to call AWS services on your behalf.

Allow Permission to S3 for Host the Website.

Permissions policies (1/949) [Info](#)

Choose one or more policies to attach to your new role.

Filter by Type			
<input type="text" value="s3"/>	<input type="text" value="All types"/>	9 matches	<input type="text" value="1"/>
<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	 AmazonDMSRedshiftS3Role	AWS managed	Provides access to manage S3 settings...
<input checked="" type="checkbox"/>	 AmazonS3FullAccess	AWS managed	Provides full access to all buckets via t...
<input type="checkbox"/>	 AmazonS3ObjectLambdaExecutionRol...	AWS managed	Provides AWS Lambda functions permi...
<input type="checkbox"/>	 AmazonS3OutpostsFullAccess	AWS managed	Provides full access to Amazon S3 on ...
<input type="checkbox"/>	 AmazonS3OutpostsReadOnlyAccess	AWS managed	Provides read only access to Amazon S...
<input type="checkbox"/>	 AmazonS3ReadOnlyAccess	AWS managed	Provides read only access to all bucket...
<input type="checkbox"/>	 AWSBackupServiceRolePolicyForS3Bac...	AWS managed	Policy containing permissions necessar...
<input type="checkbox"/>	 AWSBackupServiceRolePolicyForS3Res...	AWS managed	Policy containing permissions necessar...
<input type="checkbox"/>	 QuickSightAccessForS3StorageManage...	AWS managed	Policy used by QuickSight team to acc...

Role is Created.

Roles (1/17) Info

↻

Delete

Create role

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Q ch

✕

1 match

< 1 >

⚙

<input checked="" type="checkbox"/>	Role name	Trusted entities	Last activity
<input checked="" type="checkbox"/>	chocorole	AWS Service: ec2	-

Go to Instance → Action → Modify IAM Role.

Instances (1/1) Info

Last updated less than a minute ago

↻

Connect

Instance state ▾

Actions ▴

Launch instances ▾

Find Instance by attribute or tag (case-sensitive)

All states ▾

<input checked="" type="checkbox"/>	Name ↗	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm
<input checked="" type="checkbox"/>	mychocolux-in...	i-00b9f08555a0f4a17	Running	t2.micro	2/2 checks passed	View

Change security groups

Get Windows password

Modify IAM role

Connect

View details

Manage instance state

Instance settings ▶

Networking ▶

Security ▶

Image and templates ▶

Monitor and troubleshoot ▶

Select the Created Role and click Update IAM Role.

Modify IAM role Info

Attach an IAM role to your instance.

Instance ID

📄

i-00b9f08555a0f4a17 (mychocolux-instant)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

chocorole

↻

Create new IAM role ↗

Cancel

Update IAM role

🟢 Successfully attached chocorole to instance i-00b9f08555a0f4a17

Instances (1/1) Info

Last updated 1 minute ago

↻

Connect

Instance state ▾

Find Instance by attribute or tag (case-sensitive)

All states ▾

<input checked="" type="checkbox"/>	Name ↗	Instance ID	Instance state ▾	Instance type ▾	Status check
<input checked="" type="checkbox"/>	mychocolux-in...	i-00b9f08555a0f4a17	Running	t2.micro	2/2 checks passed

In the Instance, type the Linux Command to download all files from S3 Bucket.

```
'_#_
~\_####_      Amazon Linux 2023
~~~\#####\
~~~\####|
~~~\##/        https://aws.amazon.com/linux/amazon-linux-2023
~~~~V~'-'->
~~~~
~~~.-._./
~/m/'-/
```

Last login: Fri Aug 30 07:22:00 2024 from 18.237.140.165
[ec2-user@ip-172-31-30-28 ~]\$ aws s3 ls
2024-08-30 06:53:19 mychocolux-bucket
[ec2-user@ip-172-31-30-28 ~]\$ cd var/www/html
-bash: cd: var/www/html: No such file or directory
[ec2-user@ip-172-31-30-28 ~]\$ cd/var/www/html
-bash: cd/var/www/html: No such file or directory
[ec2-user@ip-172-31-30-28 ~]\$ cd /var/www/html
[ec2-user@ip-172-31-30-28 html]\$ ls

```
[ec2-user@ip-172-31-30-28 html]$ sudo aws s3 cp --recursive s3://mychocolux-bucket.

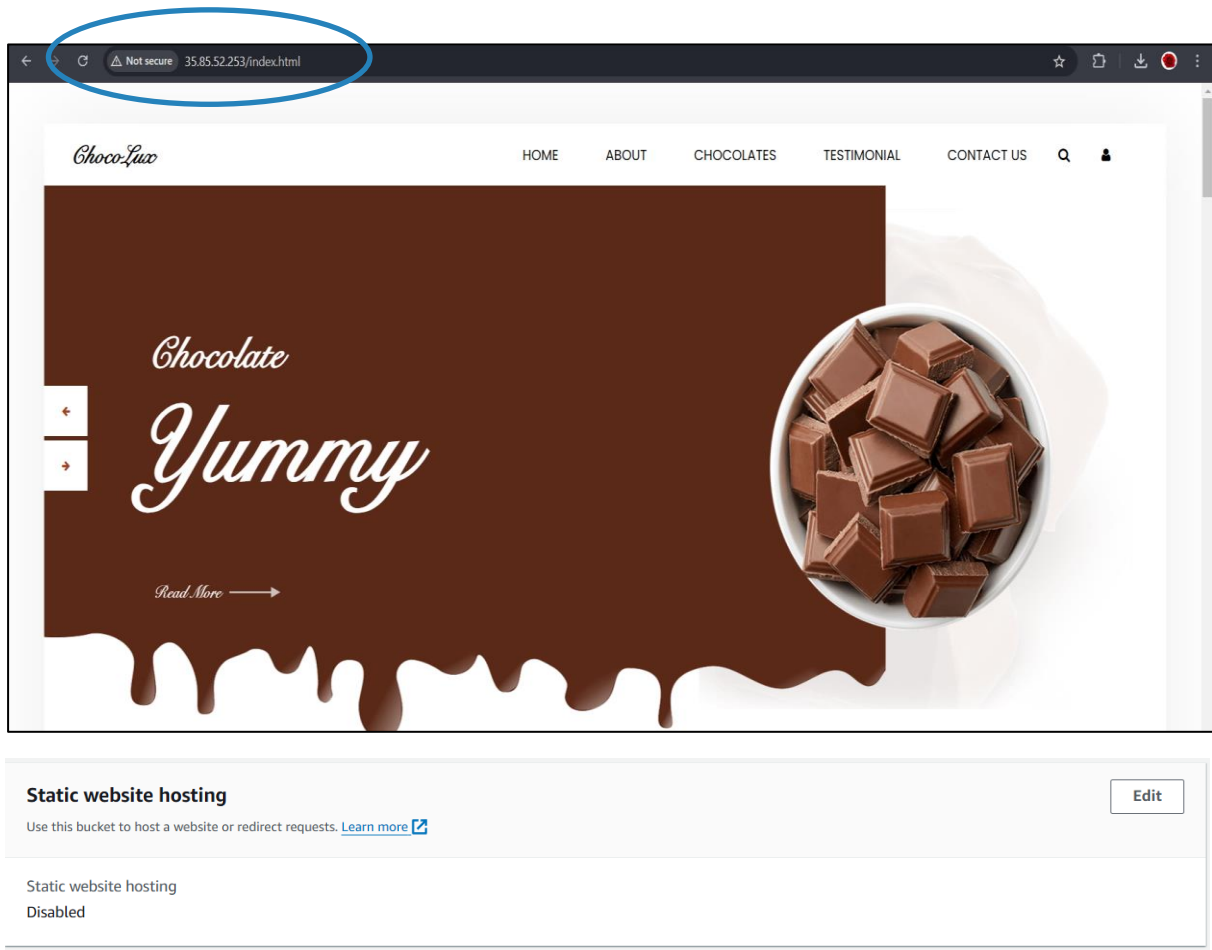
usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:

    aws help
    aws <command> help
    aws <command> <subcommand> help

aws: error: the following arguments are required: paths

[ec2-user@ip-172-31-30-28 html]$ sudo aws s3 cp --recursive s3://mychocolux-bucket .
download: s3://mychocolux-bucket/css/responsive.css to css/responsive.css
download: s3://mychocolux-bucket/about.html to ./about.html
download: s3://mychocolux-bucket/css/slick-theme.css to css/slick-theme.css
download: s3://mychocolux-bucket/images/about-img.png to images/about-img.png
download: s3://mychocolux-bucket/css/style.css.map to css/style.css.map
download: s3://mychocolux-bucket/css/style.css to css/style.css
download: s3://mychocolux-bucket/css/style.scss to css/style.scss
download: s3://mychocolux-bucket/images/chocolate1.png to images/chocolate1.png
download: s3://mychocolux-bucket/fonts/fontawesome-webfont.woff to fonts/fontawesome-webfont.woff
download: s3://mychocolux-bucket/fonts/fontawesome-webfont.woff2 to fonts/fontawesome-webfont.woff2
download: s3://mychocolux-bucket/images/chocolate3.png to images/chocolate3.png
download: s3://mychocolux-bucket/images/chocolate2.png to images/chocolate2.png
download: s3://mychocolux-bucket/contact.html to ./contact.html
download: s3://mychocolux-bucket/images/client-img.jpg to images/client-img.jpg
```

Finally Copy the IP Address and Paste on the Web Browser.



This is one method to host the Static Website. We have another way to host the Website.

Another Method to host the Static Website

Go to S3 Created Bucket → Properties → Static Website Hosting

Enable the Option and Name the Index Document.

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable

☒ Enable

Hosting type

☒ Host a static website

Use the bucket endpoint as the web address. [Learn more](#)

☐ Redirect requests for an object

Redirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

index.html

Select all the Object and go to Action → Make Public Using ACL

Objects (9)

Copy S3 URI

Copy URL

Download

Open

Delete

Find objects by prefix

<input checked="" type="checkbox"/>	Name	Type	Last modified	
<input checked="" type="checkbox"/>	testimonial.html	html	August 30, 2024, 12:32:00 (UTC+05:30)	
<input checked="" type="checkbox"/>	/s/	Folder	-	
<input checked="" type="checkbox"/>	index.html	html	August 30, 2024, 12:31:59 (UTC+05:30)	
<input checked="" type="checkbox"/>	images/	Folder	-	
<input checked="" type="checkbox"/>	fonts/	Folder	-	
<input checked="" type="checkbox"/>	css/	Folder	-	
<input checked="" type="checkbox"/>	contact.html	html	August 30, 2024, 12:31:57 (UTC+05:30)	
<input checked="" type="checkbox"/>	chocolate.html	html	August 30, 2024, 12:31:56 (UTC+05:30)	10.8 KB Standard
<input checked="" type="checkbox"/>	about.html	html	August 30, 2024, 12:32:01 (UTC+05:30)	8.8 KB Standard

Actions

Download as

Share with a presigned URL

Calculate total size

Copy

Move

Initiate restore

Query with S3 Select

Edit actions

Rename object

Edit storage class

Edit server-side encryption

Edit metadata

Edit tags

Make public using ACL

Make a **Public Access** to all the Object.

Specified objects

Name	Type	Last modified	Size
about.html	html	August 30, 2024, 12:32:01 (UTC+05:30)	8.8 KB
chocolate.html	html	August 30, 2024, 12:31:56 (UTC+05:30)	10.8 KB
contact.html	html	August 30, 2024, 12:31:57 (UTC+05:30)	9.2 KB
css/	Folder	-	-
fonts/	Folder	-	-
images/	Folder	-	-
index.html	html	August 30, 2024, 12:31:59 (UTC+05:30)	22.5 KB
js/	Folder	-	-
testimonial.html	html	August 30, 2024, 12:32:00 (UTC+05:30)	12.4 KB

Cancel Make public

Copy the **Website Endpoint** from Properties Session and Paste in the Website. Then we get a webpage in Endpoint (URL) Instead of using IP Address.

