

Project 1: Host the static website in s3 and enable cloud distribution globally

Step 1: Set up an S3 Bucket

1. Create an S3 Bucket:

- Log in to the AWS Management Console.
- Navigate to the Amazon S3 service.
- Click "Create bucket."
- Choose a globally unique bucket name and select the region.

AWS Region
US East (N. Virginia) us-east-1

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 - New**
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](#)

darkontigh

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

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.

Format: s3://bucket/prefix

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.

Object Ownership
Bucket owner enforced

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒ **Block all public access**
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- ☒ **Block public access to buckets and objects granted through new access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- ☒ **Block public access to buckets and objects granted through any access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- ☒ **Block public access to buckets and objects granted through new public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☒ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Destination info

Destination

s3://darkonlight

► 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

Upload objects - S3 bucket da...

Wings

Video Catalog Free Website Te...

s3.console.aws.amazon.com/s3/upload/darkonlight?region=us-east-1&bucketType=general

All Bookmarks

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Services

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[Alt+S]

Global

LOGESHKUMAR NARAYANAN

Uploading

Total remaining: 47 files: 9.2 MB(100.00%)

Estimated time remaining: calculating...

Transfer rate: 0 B/s

Cancel

Files and folders (47 Total, 9.2 MB)

Find by name

< 1 2 3 4 5 >

Name	Folder	Type	Size	Status	Error
tn-05.jpg	img/	image/jpeg	32.2 KB	In progress (10	-
tn-06.jpg	img/	image/jpeg	14.6 KB	Pending	-
tn-07.jpg	img/	image/jpeg	20.2 KB	Pending	-
tn-08.jpg	img/	image/jpeg	10.7 KB	Pending	-
tn-09.jpg	img/	image/jpeg	16.0 KB	Pending	-
video-detail...	img/	image/jpeg	147.1 KB	Pending	-

CloudShell

Feedback

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05-02-2024

Upload objects - S3 bucket da...

Wings

Video Catalog Free Website Te...

s3.console.aws.amazon.com/s3/upload/darkonlight?region=us-east-1&bucketType=general

All Bookmarks

aws

Services

Search

[Alt+S]

Global

LOGESHKUMAR NARAYANAN

Uploading

Total remaining: 37 files: 7.9 MB(86.60%)

Estimated time remaining: 2 minutes

Transfer rate: 57.6 KB/s

Cancel

Files and folders (47 Total, 9.2 MB)

Find by name

< 1 2 3 4 5 >

Name	Folder	Type	Size	Status	Error
tn-05.jpg	img/	image/jpeg	32.2 KB	Succeeded	-
tn-06.jpg	img/	image/jpeg	14.6 KB	Succeeded	-
tn-07.jpg	img/	image/jpeg	20.2 KB	Succeeded	-
tn-08.jpg	img/	image/jpeg	10.7 KB	Succeeded	-
tn-09.jpg	img/	image/jpeg	16.0 KB	Succeeded	-
video-detail...	img/	image/jpeg	147.1 KB	Succeeded	-

CloudShell

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Upload objects - S3 bucket da...

Wings

Video Catalog Free Website Te...

s3.console.aws.amazon.com/s3/upload/darkonlight?region=us-east-1&bucketType=general

All Bookmarks

aws

Services

Search

[Alt+S]

Global

LOGESHKUMAR NARAYANAN

Uploading

Total remaining: 24 files: 6.1 MB(66.74%)

Estimated time remaining: a minute

Transfer rate: 85.0 KB/s

Cancel

Files and folders (47 Total, 9.2 MB)

Find by name

< 1 2 3 4 5 >

Name	Folder	Type	Size	Status	Error
tn-05.jpg	img/	image/jpeg	32.2 KB	Succeeded	-
tn-06.jpg	img/	image/jpeg	14.6 KB	Succeeded	-
tn-07.jpg	img/	image/jpeg	20.2 KB	Succeeded	-
tn-08.jpg	img/	image/jpeg	10.7 KB	Succeeded	-
tn-09.jpg	img/	image/jpeg	16.0 KB	Succeeded	-
video-detail...	img/	image/jpeg	147.1 KB	Succeeded	-

CloudShell

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Upload objects - S3 bucket da... Wings Video Catalog Free Website Te... s3.console.aws.amazon.com/s3/upload/darkonlight?region=us-east-1&bucketType=general

aws Services Search [Alt+S] Global LOGESHKUMAR NARAYANAN

Uploading 91% Cancel

Total remaining: 17 files: 882.6 KB(9.41%)
Estimated time remaining: a few seconds
Transfer rate: 170.4 KB/s

Files and folders (47 Total, 9.2 MB)

Find by name

Name	Folder	Type	Size	Status	Error
tn-05.jpg	img/	image/jpeg	32.2 KB	Succeeded	-
tn-06.jpg	img/	image/jpeg	14.6 KB	Succeeded	-
tn-07.jpg	img/	image/jpeg	20.2 KB	Succeeded	-
tn-08.jpg	img/	image/jpeg	10.7 KB	Succeeded	-
tn-09.jpg	img/	image/jpeg	16.0 KB	Succeeded	-
video-detail...	img/	image/jpeg	147.1 KB	Succeeded	-

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aws Services Search [Alt+S] Global LOGESHKUMAR NARAYANAN

Upload succeeded View details below.

Destination: s3://darkonlight

Succeeded: 47 files, 9.2 MB (100.00%)

Failed: 0 files, 0 B (0%)

Static website hosting Edit

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

Static website hosting Disabled

Amazon S3 Buckets moon-website Edit static website hosting

Edit static website hosting Info

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](#)

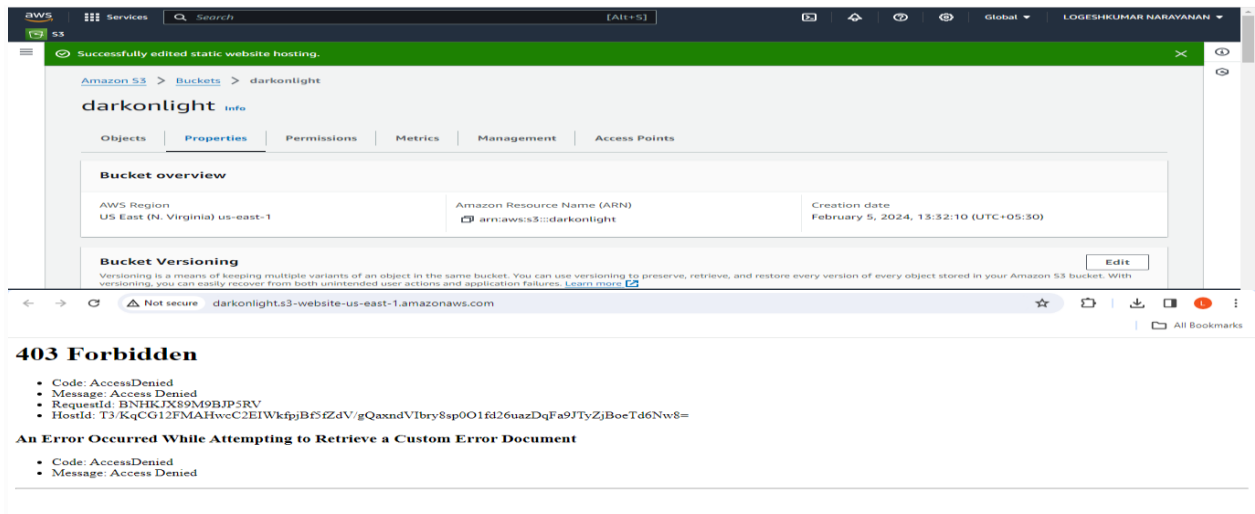
Index document Specify the home or default page of the website. index.html

Error document - optional This is returned when an error occurs. error.html

Redirection rules - optional Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

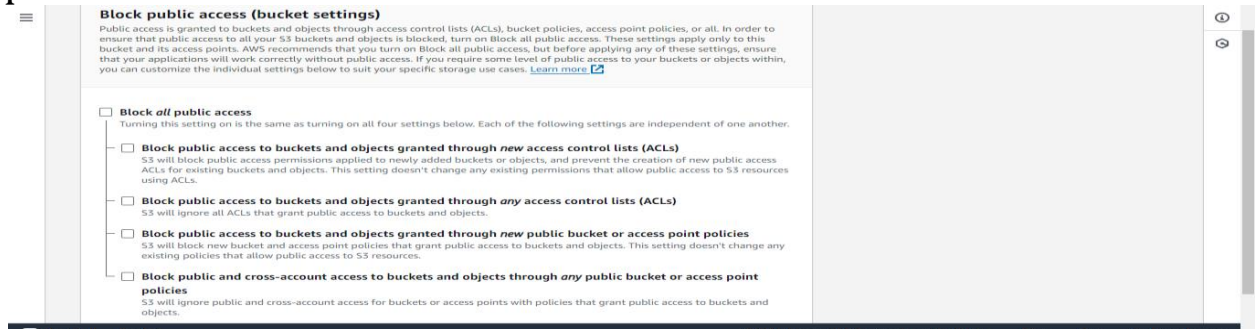
1

Then click save-changes.

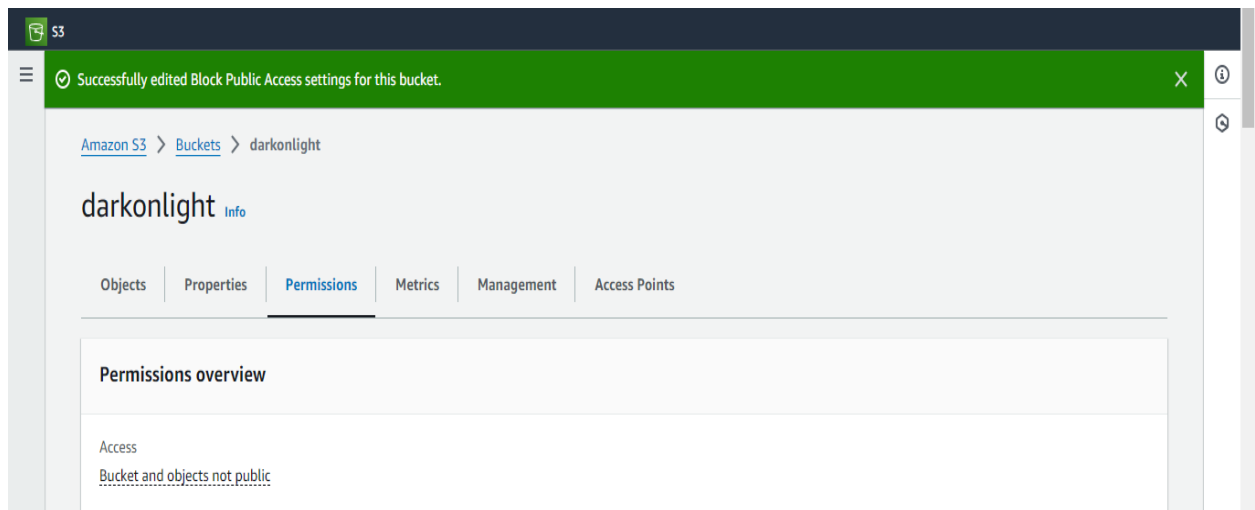


Edit the Block public access (bucket settings)

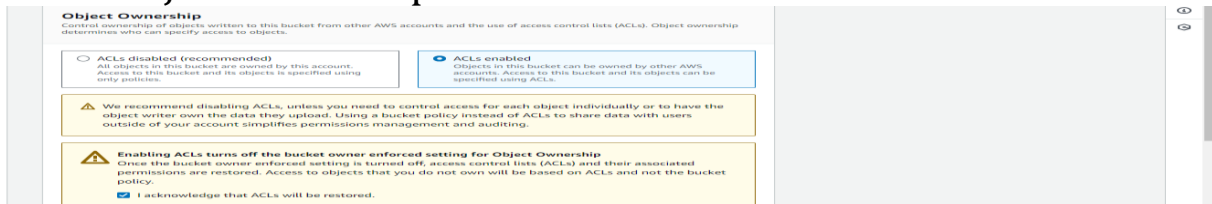
Uncheck the Block all public access.



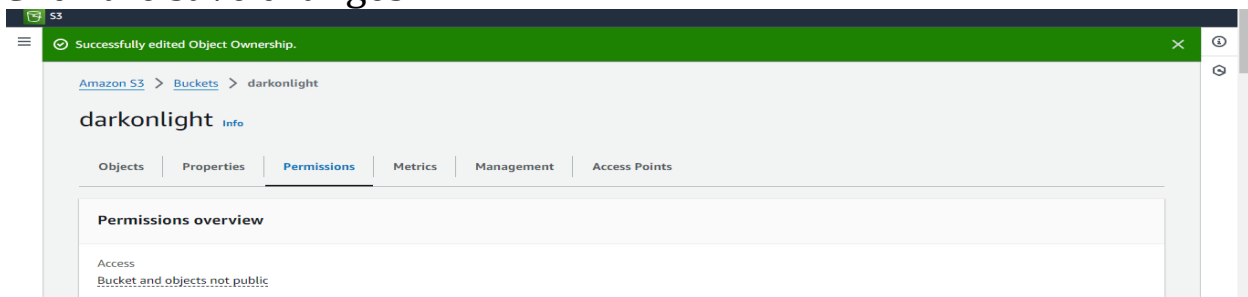
Click save changes.



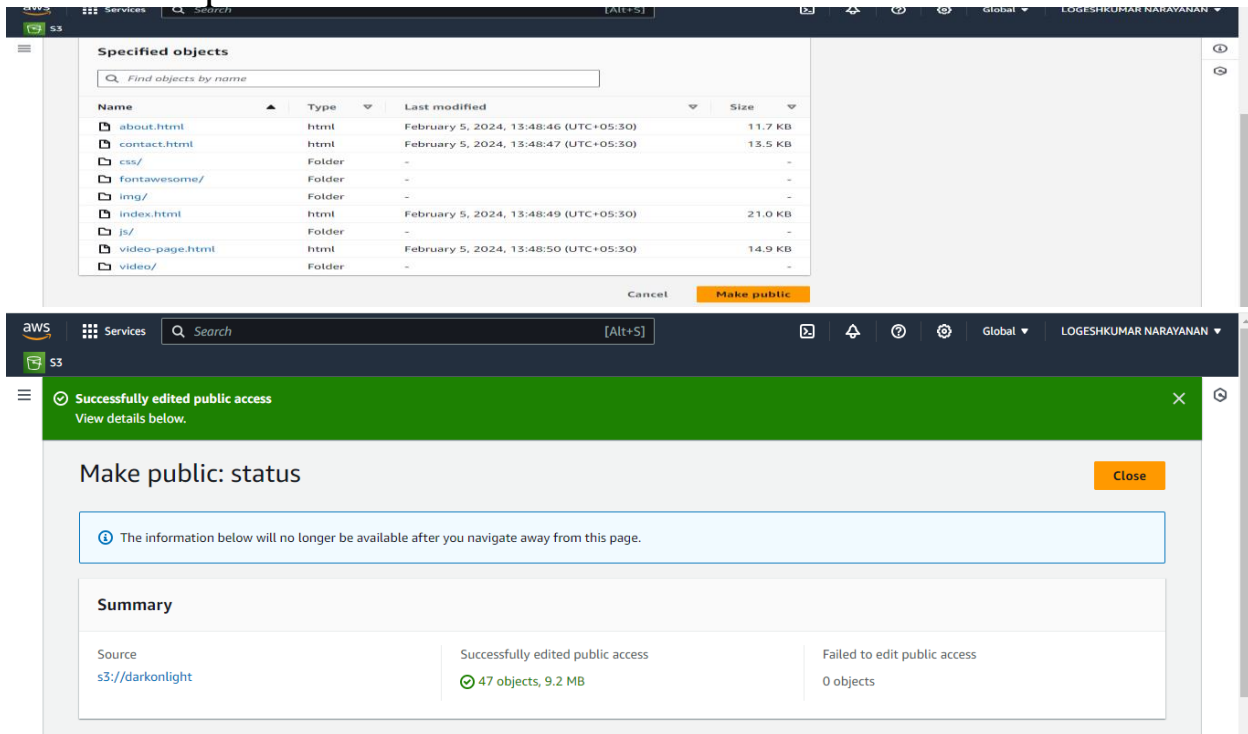
Edit the object ownership.

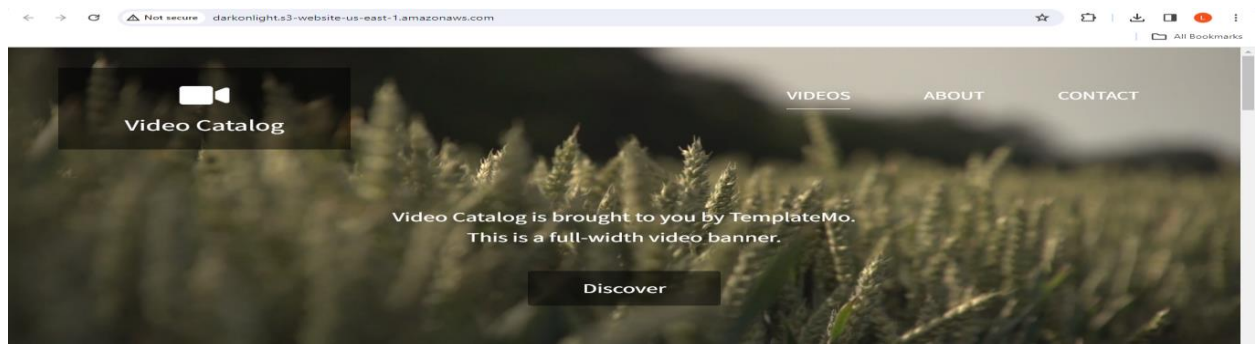


Click the save changes.



Click all in object session
and click actions and select
Make public using acl and
click make public.

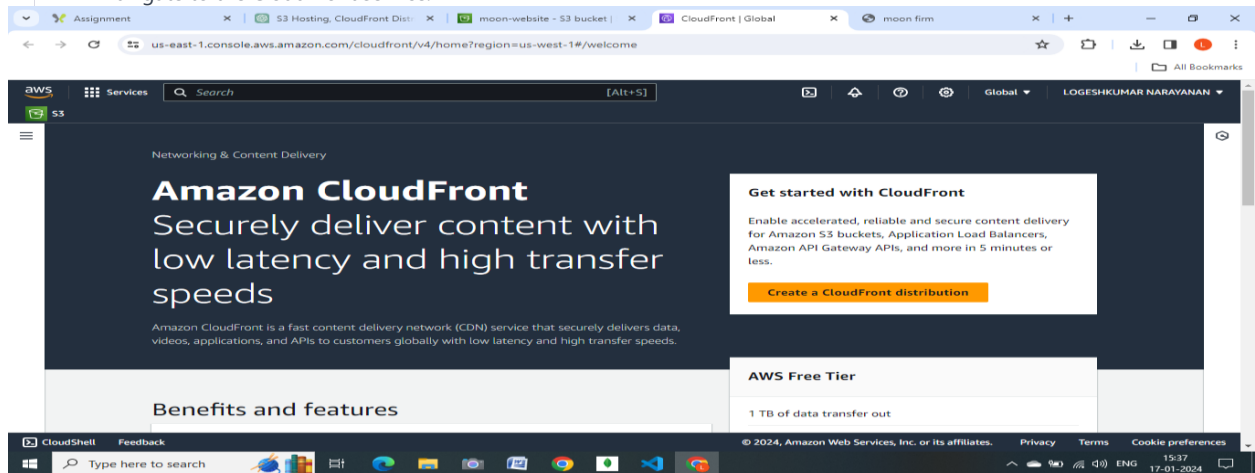




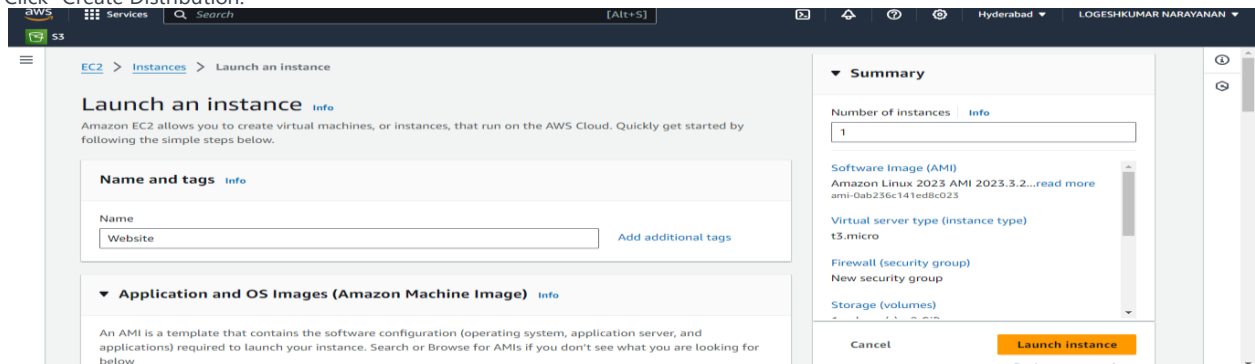
Step 2: Enable CloudFront Distribution

1. Navigate to CloudFront:

- Go to the AWS Management Console.
- Navigate to the CloudFront service.



Click "Create Distribution."



Quick Start

Amazon Linux

Ubuntu

Windows

Red Hat

SUSE Linux

Debian

Amazon Linux 2023 AMI

ami-0ab236c141ed8c023 (64-bit (x86), uefi-preferred) / ami-0ffbcdbcefe2bcb90 (64-bit (Arm), uefi)

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

Description

Amazon Linux 2023 AMI 2023.3.20240108.0 x86_64 HVM kernel-6.1

Architecture

64-bit (x86)

Boot mode

uefi-preferred

AMI ID

ami-0ab236c141ed8c023

Free tier eligible

Verified provider

▼ Summary

Number of instances | Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.3.2...read more

ami-0ab236c141ed8c023

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

Cancel

Launch instance

▼ Instance type

Info | Get advice

Instance type

t2.micro

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

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.0716 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible

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

static

Create new key pair

▼ Network settings

Info

VPC - required | Info

vpc-Od6ff57fef3447e7f

172.31.0.0/16

(default)

Subnet | Info

No preference

Create new subnet

Auto-assign public IP | Info

Enable

Firewall (security groups) | Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Security group name - required

CDN

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-2 created 2024-02-05T09:00:08.026Z

Inbound Security Group Rules

▼ Security group rule 1 (TCP, 22, 0.0.0.0/0)

Remove

Type | Info

ssh

Protocol | Info

TCP

Port range | Info

22

Source type | Info

Anywhere

Source | Info

Q Add CIDR, prefix list or security

0.0.0.0/0 X

Description - optional | Info

e.g. SSH for admin desktop

▼ Security group rule 2 (TCP, 80, 0.0.0.0/0)

Remove

Type | Info

HTTP

Protocol | Info

TCP

Port range | Info

80

Source type | Info

Anywhere

Source | Info

Q Add CIDR, prefix list or security

0.0.0.0/0 X

Description - optional | Info

e.g. SSH for admin desktop

▼ Summary

Number of instances | Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.3.2...read more

ami-0500f74cc2b89fb6b

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

Cancel

Launch instance

Review commands

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Then launch instance.

The image displays a sequence of four screenshots from the AWS Management Console, illustrating the process of launching and connecting to an EC2 instance.

Top Screenshot: Launch an Instance
This screen shows the 'Launch an Instance' page. A green success banner at the top states: 'Success Successfully initiated launch of instance (i-0bb64ca10a97dbb13)'. Below this, there's a 'Launch log' section and a 'Next Steps' section with a search bar and navigation arrows. Four recommended actions are listed: 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', and 'Create EBS snapshot policy'.

Second Screenshot: Instances List
This screenshot shows the 'Instances (1) Info' page. The instance 'i-0bb64ca10a97dbb13' is listed with the state 'Running'. The 'Status check' column shows 'Initializing'.

Third Screenshot: Instances List
This screenshot shows the 'Instances (1) Info' page. The instance 'i-0bb64ca10a97dbb13' is listed with the state 'Running'. The 'Status check' column now shows '2/2 checks passed'.

Bottom Screenshot: Connect to instance
This screenshot shows the 'Connect to instance' page. The 'EC2 Instance Connect' tab is selected. The instance ID 'i-0bb64ca10a97dbb13' is shown. The 'Connection Type' is set to 'Connect using EC2 Instance Connect'. The 'Public IP address' is '3.8.141.19'. The 'Username' is 'ec2-user'. A note at the bottom states: '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.' The 'Connect' button is highlighted.

Bottom Screenshot: EC2 Instance Connect
This screenshot shows the 'EC2 Instance Connect' page. The 'Public IP address' is '3.8.141.19'. The 'Username' is 'ec2-user'. The 'Note' at the bottom is the same as in the previous screenshot. The 'Connect' button is highlighted.

Bottom Screenshot: Amazon Linux 2023
This screenshot shows the 'Amazon Linux 2023' page. The 'Public IP address' is '3.8.141.19'. The 'Username' is 'ec2-user'. The 'Note' at the bottom is the same as in the previous screenshot. The 'Connect' button is highlighted.

```
[ec2-user@ip-172-31-25-112 ~]$ sudo yum install httpd -y && sudo service httpd start
Last metadata expiration check: 0:09:57 ago on Wed Jan 17 10:35:21 2024.
Dependencies resolved.
=====
Package                               Architecture      Version            Repository          Size
-----
Installing:
httpd                                x86_64            2.4.58-1.amzn2023  amazonlinux         47 k
Installing dependencies:
apr                                  x86_64            1.7.2-2.amzn2023.0.2  amazonlinux         129 k
apr-util                             x86_64            1.6.3-1.amzn2023.0.1  amazonlinux          98 k
generic-logos-httpd                  x86_64            19.0.0-12.amzn2023.0.3  amazonlinux          13 k
httpd-core                           x86_64            2.4.58-1.amzn2023    amazonlinux         1.4 M
httpd-filesystem                      x86_64            2.4.58-1.amzn2023    amazonlinux          14 k
httpd-tools                          x86_64            2.4.58-1.amzn2023    amazonlinux          81 k
libbrotli                             x86_64            1.0.9-4.amzn2023.0.2  amazonlinux         315 k
mailcap                              x86_64            2.1.49-3.amzn2023.0.3  amazonlinux          33 k
Installing weak dependencies:
apr-util-openssl                     x86_64            1.6.3-1.amzn2023.0.1  amazonlinux          17 k
mod_http2                           x86_64            2.0.11-2.amzn2023    amazonlinux         150 k
mod_lua                             x86_64            2.4.58-1.amzn2023    amazonlinux          61 k
Verifying : mod_lua-2.4.58-1.amzn2023.x86_64                                1/12
Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64                    2/12
Verifying : httpd-tools-2.4.58-1.amzn2023.x86_64                            3/12
Verifying : apr-1.7.2-2.amzn2023.0.2.x86_64                               4/12
Verifying : httpd-2.4.58-1.amzn2023.x86_64                                  5/12
Verifying : apr-util-1.6.3-1.amzn2023.0.1.x86_64                           6/12
Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64                          7/12
Verifying : httpd-core-2.4.58-1.amzn2023.x86_64                           8/12
Verifying : mod_http2-2.0.11-2.amzn2023.x86_64                             9/12
Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch                           10/12
Verifying : generic-logos-httpd-19.0.0-12.amzn2023.0.3.noarch              11/12
Verifying : httpd-filesystem-2.4.58-1.amzn2023.noarch                       12/12
Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64      apr-util-1.6.3-1.amzn2023.0.1.x86_64  apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
generic-logos-httpd-19.0.0-12.amzn2023.0.3.noarch  httpd-core-2.4.58-1.amzn2023.x86_64  httpd-filesystem-2.4.58-1.amzn2023.x86_64
httpd-filesystem-2.4.58-1.amzn2023.noarch  httpd-tools-2.4.58-1.amzn2023.x86_64  libbrotli-1.0.9-4.amzn2023.0.2.x86_64
mailcap-2.1.49-3.amzn2023.0.3.noarch      mod_http2-2.0.11-2.amzn2023.x86_64    mod_lua-2.4.58-1.amzn2023.x86_64

Complete!
Redirecting to /bin/systemctl start httpd.service
[ec2-user@ip-172-31-25-112 ~]$
```

```
[ec2-user@ip-172-31-31-20 ~]$ sudo wget https://www.free-css.com/assets/files/free-css-templates/download/page271/video-catalog.zip
--2024-02-05 09:19:52-- https://www.free-css.com/assets/files/free-css-templates/download/page271/video-catalog.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000::28f
Connecting to www.free-css.com (www.free-css.com)|217.160.0.242|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 7532125 (7.2M) [application/zip]
Saving to: 'video-catalog.zip'

video-catalog.zip      100%[=====>] 7.18M 6.25MB/s in 1.1s

2024-02-05 09:19:54 (6.25 MB/s) - 'video-catalog.zip' saved [7532125/7532125]
[ec2-user@ip-172-31-31-20 ~]$
```

i-Oad122ba368d7134f (Website)

PublicIPs: 3.85.202.226 PrivateIPs: 172.31.31.20

```
[ec2-user@ip-172-31-31-20 ~]$ ls
video-catalog.zip
[ec2-user@ip-172-31-31-20 ~]$
```

```
[ec2-user@ip-172-31-26-112 ~]$ unzip video-catalog.zip
Archive: video-catalog.zip
  creating: templatemo_552_video_catalog/
  inflating: templatemo_552_video_catalog/about.html
  inflating: templatemo_552_video_catalog/contact.html
  creating: templatemo_552_video_catalog/css/
  inflating: templatemo_552_video_catalog/css/bootstrap.min.css
  inflating: templatemo_552_video_catalog/css/templatemo-video-catalog.css
  creating: templatemo_552_video_catalog/fontawesome/
  creating: templatemo_552_video_catalog/fontawesome/css/
  inflating: templatemo_552_video_catalog/fontawesome/css/all.min.css
  inflating: templatemo_552_video_catalog/fontawesome/LICENSE.txt
  creating: templatemo_552_video_catalog/fontawesome/webfonts/
  inflating: templatemo_552_video_catalog/fontawesome/webfonts/fa-brands-400.eot
  inflating: templatemo_552_video_catalog/fontawesome/webfonts/fa-brands-400.svg
  inflating: templatemo_552_video_catalog/fontawesome/webfonts/fa-brands-400.ttf

  inflating: templatemo_552_video_catalog/img/about-1.jpg
  inflating: templatemo_552_video_catalog/img/about-2.jpg
  inflating: templatemo_552_video_catalog/img/about-3.jpg
  inflating: templatemo_552_video_catalog/img/contact-1.jpg
  inflating: templatemo_552_video_catalog/img/contact-2.jpg
  inflating: templatemo_552_video_catalog/img/select-arrow.png
  inflating: templatemo_552_video_catalog/img/testimonial-1.jpg
  inflating: templatemo_552_video_catalog/img/testimonial-2.jpg
  inflating: templatemo_552_video_catalog/img/testimonial-3.png
  inflating: templatemo_552_video_catalog/img/testimonial-4.png
  inflating: templatemo_552_video_catalog/img/tn-01.jpg
  inflating: templatemo_552_video_catalog/img/tn-02.jpg
  inflating: templatemo_552_video_catalog/img/tn-03.jpg
  inflating: templatemo_552_video_catalog/img/tn-04.jpg
  extracting: templatemo_552_video_catalog/img/tn-05.jpg
  inflating: templatemo_552_video_catalog/img/tn-06.jpg
  extracting: templatemo_552_video_catalog/img/tn-07.jpg
  inflating: templatemo_552_video_catalog/img/tn-08.jpg
  inflating: templatemo_552_video_catalog/img/tn-09.jpg
  inflating: templatemo_552_video_catalog/img/video-detail-1.jpg
  inflating: templatemo_552_video_catalog/index.html
  creating: templatemo_552_video_catalog/js/
  inflating: templatemo_552_video_catalog/js/bootstrap.min.js
  inflating: templatemo_552_video_catalog/js/jquery-3.4.1.min.js
  inflating: templatemo_552_video_catalog/js/parallax.min.js
  creating: templatemo_552_video_catalog/video/
  inflating: templatemo_552_video_catalog/video-page.html
  inflating: templatemo_552_video_catalog/video/wheat-field.mp4
[ec2-user@ip-172-31-26-112 ~]$
```

```
[ec2-user@ip-172-31-26-112 ~]$ ls
templatemo_552_video_catalog  video-catalog.zip
[ec2-user@ip-172-31-26-112 ~]$

[ec2-user@ip-172-31-26-112 ~]$ cd templatemo_552_video_catalog
[ec2-user@ip-172-31-26-112 templatemo_552_video_catalog]$ pwd
/home/ec2-user/templatemo_552_video_catalog
[ec2-user@ip-172-31-26-112 templatemo_552_video_catalog]$
```

```
[ec2-user@ip-172-31-26-112 template_552_video_catalog]$ ls -l
total 84
-rw-r--r--. 1 ec2-user ec2-user 11960 May 24 2020 about.html
-rw-r--r--. 1 ec2-user ec2-user 13860 May 27 2020 contact.html
drwxr-xr-x. 2 ec2-user ec2-user 67 May 24 2020 css
drwxr-xr-x. 4 ec2-user ec2-user 52 May 24 2020 fontawesome
drwxr-xr-x. 2 ec2-user ec2-user 16384 May 24 2020 img
-rw-r--r--. 1 ec2-user ec2-user 21482 May 27 2020 index.html
drwxr-xr-x. 2 ec2-user ec2-user 80 May 24 2020 js
drwxr-xr-x. 2 ec2-user ec2-user 29 May 24 2020 video
-rw-r--r--. 1 ec2-user ec2-user 15297 May 27 2020 video-page.html
[ec2-user@ip-172-31-26-112 template_552_video_catalog]$
```

```
[ec2-user@ip-172-31-25-112 security-guard-website-template]$ sudo mv ** /var/www/html/
[ec2-user@ip-172-31-25-112 security-guard-website-template]$
```

Opening Hours: 8:00AM - 9:00PM

SafetyFirst

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EC2 Dashboard

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EC2 > Load balancers

Load balancers

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Filter load balancers

Name	DNS name	State	VPC ID	Availability Zones
0 load balancers selected				

Create load balancer

Load balancer types

Application Load Balancer

Choose an Application Load Balancer when you need a flexible feature set for your applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.

Create

Network Load Balancer

Choose a Network Load Balancer when you need ultra-high performance, TLS offloading at scale, centralized certificate deployment, support for UDP, and static IP addresses for your applications. Operating at the connection level, Network Load Balancers are capable of handling millions of requests per second securely while maintaining ultra-low latencies.

Create

Gateway Load Balancer

Choose a Gateway Load Balancer when you need to deploy and manage a fleet of third-party virtual appliances that support GENEVE. These appliances enable you to improve security, compliance, and policy controls.

Create

▶ Classic Load Balancer - previous generation

Create Application Load Balancer.

53

Basic configuration

Load balancer name

Name must be unique within your AWS account and can't be changed after the load balancer is created.

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Scheme

Info

Scheme can't be changed after the load balancer is created.

☒ Internet-facing

An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. [Learn more](#)

☐ Internal

An internal load balancer routes requests from clients to targets using private IP addresses.

IP address type

Info

Select the type of IP addresses that your subnets use.

☒ IPv4

Recommended for internal load balancers.

☐ Dualstack

Includes IPv4 and IPv6 addresses.

Basic configuration

Load balancer name

Name must be unique within your AWS account and can't be changed after the load balancer is created.

CDN

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Scheme

Info

Scheme can't be changed after the load balancer is created.

☒ Internet-facing

An internet-facing load balancer routes requests from clients over the internet to targets. Requires a public subnet. [Learn more](#)

☐ Internal

An internal load balancer routes requests from clients to targets using private IP addresses.

IP address type

Info

Select the type of IP addresses that your subnets use.

☒ IPv4

Recommended for internal load balancers.

☐ Dualstack

Includes IPv4 and IPv6 addresses.

Network mapping

Info

The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

VPC

Info

Select the virtual private cloud (VPC) for your targets or you can [create a new VPC](#). Only VPCs with an internet gateway are enabled for selection. The selected VPC can't be changed after the load balancer is created. To confirm the VPC for your targets, view your [target groups](#).

vpc-0d6ff57fef3447e7f

IPv4: 172.31.0.0/16

Mappings

Info

Select at least two Availability Zones and one subnet per zone. The load balancer routes traffic to targets in these Availability Zones only. Availability Zones that are not supported by the load balancer or the VPC are not available for selection.

☒ us-east-1a (use1-az2)

Subnet

subnet-033a3b58818b5b9c9

IPv4 address

Assigned by AWS

☐ us-east-1b (use1-az4)

Subnet

subnet-0919ffb957bddc3f0

IPv4 address

Assigned by AWS

☐ us-east-1c (use1-az6)

☐ us-east-1d (use1-az1)

☐ us-east-1e (use1-az3)

☐ us-east-1f (use1-az5)

Security groups

Info

A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can [create a new security group](#).

Security groups

Info

A security group is a set of firewall rules that control the traffic to your load balancer. Select an existing security group, or you can [create a new security group](#).

Security groups

Select up to 5 security groups

CDN

sg-00d785094a4d50d40

VPC: vpc-0d6ff57fef3447e7f

Create a target group

▼ Listener HTTP:80

Remove

Protocol

Port

Default action

Info

HTTP

:

80

Forward to

Select a target group

1-65535

Create target group

Listener tags - optional

Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.

Add listener tag

You can add up to 50 more tags.

Add listener

EC2 > Target groups > Create target group

Step 1
Specify group details

Step 2
Register targets

Specify group details

Your load balancer routes requests to the targets in a target group and performs health checks on the targets.

Basic configuration
Settings in this section can't be changed after the target group is created.

Choose a target type

☒ **Instances**

- Supports load balancing to instances within a specific VPC.
- Facilitates the use of [Amazon EC2 Auto Scaling](#) to manage and scale your EC2 capacity.

☐ **IP addresses**

- Supports load balancing to VPC and on-premises resources.
- Facilitates routing to multiple IP addresses and network interfaces on the same instance.
- Offers flexibility with microservice based architectures, simplifying inter-application communication.
- Supports IPv6 targets, enabling end-to-end IPv6 communication, and IPv4-to-IPv6 NAT.

Target group name

CDN

A maximum of 32 alphanumeric characters including hyphens are allowed, but the name must not begin or end with a hyphen.

Available instances (1)

Filter instances

<input type="checkbox"/>	Instance ID	Name	State	Se
<input type="checkbox"/>	i-05ed636c8b3d39b92	Website	Running	CD

Enable the checkbox for instances_id and then click include as pending below.

Filter instances

<input checked="" type="checkbox"/>	Instance ID	Name	State	Se
<input checked="" type="checkbox"/>	i-05ed636c8b3d39b92	Website	Running	CD

1 selected

Ports for the selected instances
Ports for routing traffic to the selected instances.

80

1-65535 (separate multiple ports with commas)

Include as pending below

aws Services Search [Alt+S] N. Virginia LOGESHKUMAR NARAYANAN

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Reserved Instances

Dedicated Hosts

Capacity Reservations

New

Successfully created the target group: **CDN**. Anomaly detection is automatically applied to all registered targets. Results can be viewed in the Targets tab.

EC2 > Target groups > CDN

CDN

Actions

Introducing Automatic Target Weights (ATW) to increase application availability
Automatic Target Weights is achieved by turning on anomaly mitigation, which provides responsive, dynamic distribution of traffic to targets based on anomaly detection results. All HTTP/HTTPS target groups now include anomaly detection by default. [Learn more](#)

Details

arn:aws:elasticloadbalancing:us-east-1:683743302458:targetgroup/CDN/6995371c520e4bee

▼ Listener HTTP:80 Remove

Protocol HTTP Port 80

Default action Forward to CDN Target type: Instance, IPv4 HTTP

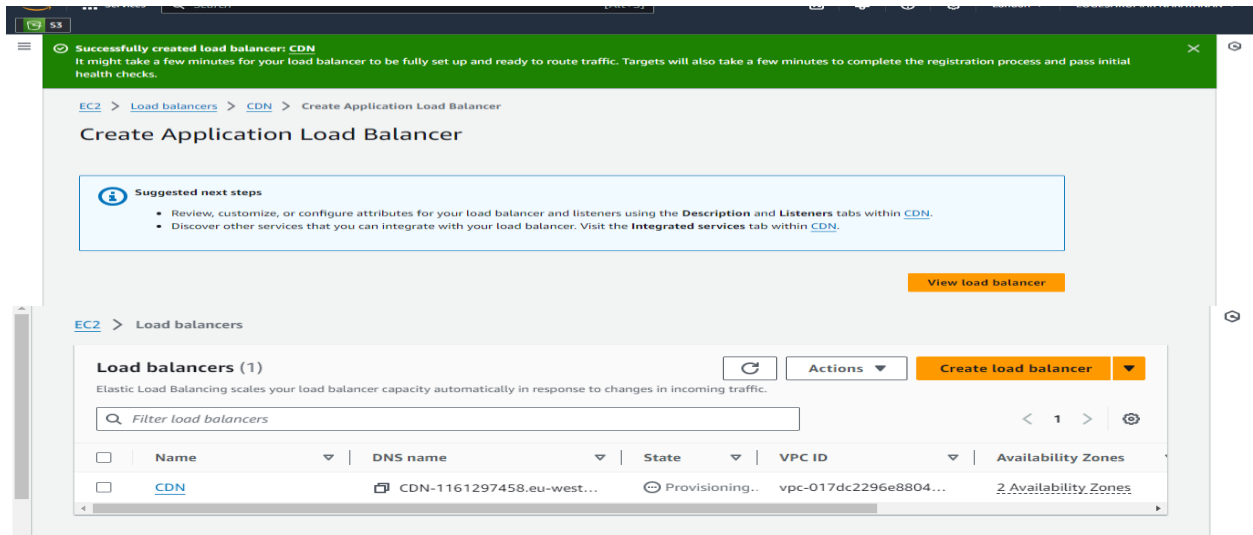
Listener tags - optional
Consider adding tags to your listener. Tags enable you to categorize your AWS resources so you can more easily manage them.

Add listener tag

You can add up to 50 more tags.

Add listener

Click Create load balancer.



Create a cloudfront distribution.

