

# Assignment 4:

## #EC2 instance is running on aws:

AppsPlaces

Nov 11 12:39 PM

408.55 MB

TestGit/FullPersonal AccAssignment -Ostad - LearDevOps-OstAWS/Ostad/ashrafulinstGreeting - ClHome :: InstaDocker Sleep36.255.69.72:80Instances | xNew Tab+ v

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Kali LinuxKali ToolsKali DocsKali ForumsKali NetHunterExploit-DBGoogle Hacking DBdocker swarm cheatsh...OffSecDashboard :: InstasureCattle Insurance Docu...127.0.0.1:8080 / localh...Parrot OSHack The Box

awsSearch [Alt+S]

United States (N. Virginia)Account ID: 3664-0352-3501amshuvo64@gmail.com

EC2 > Instances

EC2

DashboardEC2 Global ViewEvents

InstancesInstancesTypesLaunch TemplatesSpot RequestsSavings PlansReserved InstancesDedicated HostsCapacity ReservationsCapacity Manager

ImagesAMIsAMI Catalog

Elastic Block StoreVolumesSnapshotsLifecycle Manager

Network & SecuritySecurity GroupsElastic IPsPlacement GroupsKey Pairs

Instances (1/1) Info

Last updated 14 minutes 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 status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input checked="" type="checkbox"/>	ec2-assignme...	i-Od938ac661406f24d	Running	t3.micro	Initializing	View alarms +	us-east-1c	ec2-54-224-204-60.co...	54.224.204.60	-

i-Od938ac661406f24d (ec2-assignment-4)

Filter rules

Name	Security group rule ID	Port range	Protocol	Source	Security groups	Description
-	sgr-0057f1594dfb803fe	22	TCP	0.0.0.0/0	launch-wizard-137	-
-	sgr-0727d82d64dfaa94c	80	TCP	0.0.0.0/0	launch-wizard-137	-
-	sgr-0e63379d9b5e44192	443	TCP	0.0.0.0/0	launch-wizard-137	-

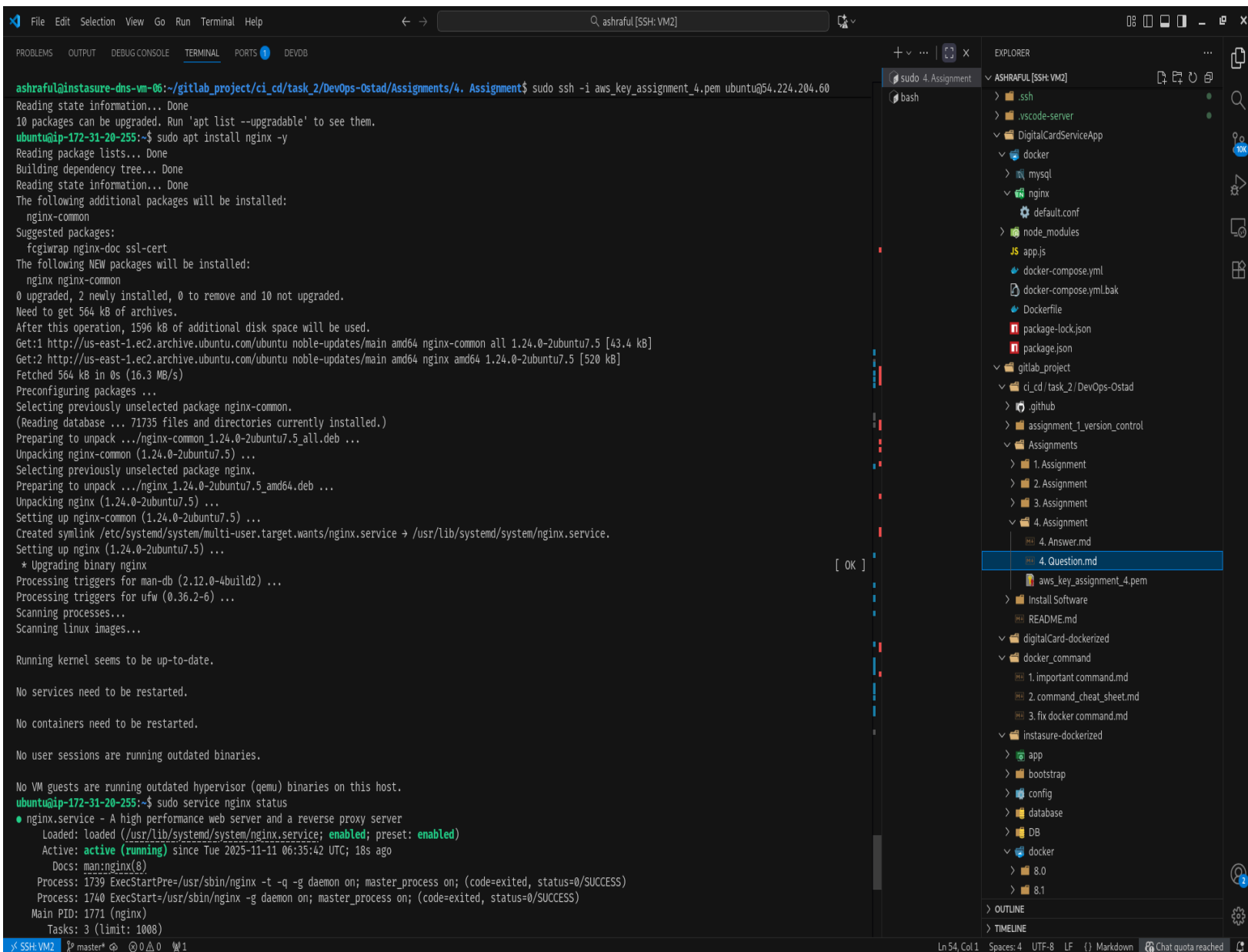
Outbound rules

Filter rules

CloudShellFeedback

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## #SSH connection to the EC2 instance:



```
ashrafu@instasure-dns-vm-06:~/gitlab_project/ci_cd/task_2/DevOps-Ostad/Assignments/4. Assignment$ sudo ssh -i aws_key_assignment_4.pem ubuntu@54.224.204.60
Reading state information... Done
10 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-20-255:~$ sudo apt install nginx -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 10 not upgraded.
Need to get 564 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.5 [43.4 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.5 [520 kB]
Fetched 564 kB in 0s (16.3 MB/s)
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 71735 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.5_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.5) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.5_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.5) ...
Setting up nginx-common (1.24.0-2ubuntu7.5) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Setting up nginx (1.24.0-2ubuntu7.5) ...
* Upgrading binary nginx
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for ufw (0.36.2-6) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-20-255:~$ sudo service nginx status
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
   Active: active (running) since Tue 2025-11-11 06:35:42 UTC; 18s ago
     Docs: man:nginx(8)
   Process: 1739 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 1740 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Main PID: 1771 (nginx)
     Tasks: 3 (limit: 1008)
```

[ OK ]

Ln 54, Col 1 Spaces: 4 UTF-8 LF {} Markdown Chat quota reached

# #Install the Nginx and running:

File Edit Selection View Go Run Terminal Help

← → ashrafu[SSH: VM2]

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS DEVOB

ashrafu@instasure-dns-vm-06:~/gitlab\_project/ci\_cd/task\_2/DevOps-Ostad/Assignments/4. Assignment\$ sudo ssh -i aws\_key\_assignment\_4.pem ubuntu@54.224.204.60

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-20-255:~\$ sudo service nginx status

● nginx.service - A high performance web server and a reverse proxy server

Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)

Active: active (running) since Tue 2025-11-11 06:35:42 UTC; 18s ago

Docs: man:nginx(8)

Process: 1739 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master\_process on; (code=exited, status=0/SUCCESS)

Process: 1740 ExecStart=/usr/sbin/nginx -g daemon on; master\_process on; (code=exited, status=0/SUCCESS)

Main PID: 1771 (nginx)

Tasks: 3 (limit: 1008)

Memory: 2.4M (peak: 5.2M)

CPU: 27ms

CGroup: /system.slice/nginx.service

└─1771 "nginx: master process /usr/sbin/nginx -g daemon on; master\_process on;"

└─1773 "nginx: worker process"

└─1774 "nginx: worker process"

Nov 11 06:35:42 ip-172-31-20-255 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...

Nov 11 06:35:42 ip-172-31-20-255 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.

ubuntu@ip-172-31-20-255:~\$ cd /usr/share/nginx/html/

ubuntu@ip-172-31-20-255:/usr/share/nginx/html\$ ls

index.html

ubuntu@ip-172-31-20-255:/usr/share/nginx/html\$ ls -la /usr/share/nginx/html/

total 12

drwxr-xr-x 2 root root 4096 Nov 11 06:35 .

drwxr-xr-x 3 root root 4096 Nov 11 06:35 ..

-rw-r--r-- 1 root root 615 Apr 11 2023 index.html

ubuntu@ip-172-31-20-255:/usr/share/nginx/html\$ sudo ss -tlnp | grep nginx

LISTEN 0 511 0.0.0.0:80 0.0.0.0:\* users:(("nginx",pid=1774,fd=5),("nginx",pid=1773,fd=5),("nginx",pid=1771,fd=5))

LISTEN 0 511 [::]:80 [::]:\* users:(("nginx",pid=1774,fd=6),("nginx",pid=1773,fd=6),("nginx",pid=1771,fd=6))

ubuntu@ip-172-31-20-255:/usr/share/nginx/html\$ curl http://localhost/

<!DOCTYPE html>

<html>

<head>

<title>Welcome to nginx!</title>

<style>

html { color:scheme: light dark; }

body { width: 35em; margin: 0 auto;

font-family: Tahoma, Verdana, Arial, sans-serif; }

</style>

</head>

<body>

<h1>Welcome to nginx!</h1>

<p>If you see this page, the nginx web server is successfully installed and working. Further configuration is required.</p>

<p>For online documentation and support please refer to

<a href="http://nginx.org/">nginx.org</a>.<br/>

Commercial support is available at

<a href="http://nginx.com/">nginx.com</a>.</p>

EXPLORER

ASHRAFUL [SSH: VM2]

ssh

.vscode-server

DigitalCardServiceApp

docker

mysql

nginx

default.conf

node\_modules

app.js

docker-compose.yml

docker-compose.yml.bak

Dockerfile

package-lock.json

package.json

gitlab\_project

ci\_cd / task\_2 / DevOps-Ostad

github

assignment\_1\_version\_control

Assignments

1. Assignment

2. Assignment

3. Assignment

4. Assignment

4. Answer.md

4. Question.md

aws\_key\_assignment\_4.pem

Install Software

README.md

digitalCard-dockerized

docker\_command

1. important command.md

2. command\_cheat\_sheet.md

3. fix docker command.md

instasure-dockerized

app

bootstrap

config

database

DB

docker

8.0

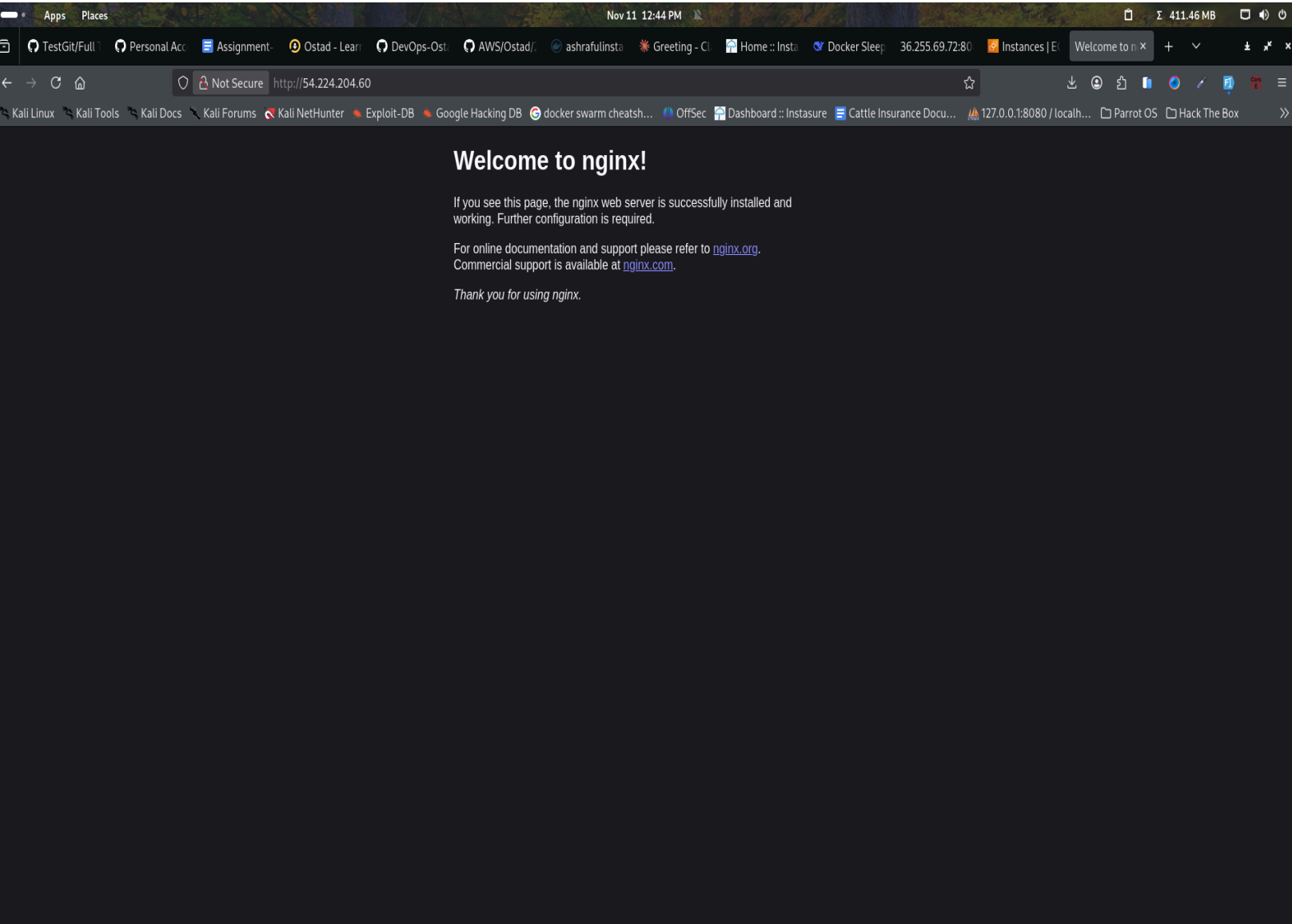
8.1

OUTLINE

TIMELINE

Ln 54, Col 1 Spaces: 4 UTF-8 LF () Markdown Chat quota reached

#web browser showing the rendered index.html file:



#the bucket name and public access settings.

Nov 11 12:52 PM

425.24 MB

TestGit/FullPersonal AcAssignmentnOstad - LeaDevOps-OsAWS/OstadashrafulinsGreeting - CHome :: InsDocker Slee36.255.69.72:8ostad-as: xWelcome to nNew Tab

us-east-1.console.aws.amazon.com/s3/buckets/ostad-assignment-4-s3?region=us-east-1&tab=permissions

Kali LinuxKali ToolsKali DocsKali ForumsKali NetHunterExploit-DBGoogle Hacking DBdocker swarm cheatshtOffSecDashboard :: InstasureCattle Insurance Docu...127.0.0.1:8080 / localh...Parrot OSHack The Box

Search[Alt+S]

United States (N. Virginia)Account ID: 3664-0352-3501amshuvo64@gmail.com

Amazon S3Bucketsostad-assignment-4-s3

ostad-assignment-4-s3Info

ObjectsMetadataPropertiesPermissionsMetricsManagementAccess Points

Permissions overview

Access finding

Access findings are provided by IAM external access analyzers. Learn more about [How IAM analyzer findings work](#).

[View analyzer for us-east-1](#)

Block public access (bucket settings)

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 all your S3 buckets and 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 your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access

Off

Individual Block Public Access settings for this bucket

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

No policy to display.

Copy

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# S3 bucket showing the upload index.html file :

The screenshot displays the AWS Management Console interface. The top navigation bar shows the AWS logo, a search bar, and the account ID 3664-0352-3501. The breadcrumb trail indicates the path: Amazon S3 > Buckets > ostad-assignment-4-s3 > index.html. The left sidebar lists various S3 features like General purpose buckets, Storage Lens, and AWS Marketplace for S3. The main content area is titled 'index.html' and includes tabs for Properties, Permissions, and Versions. The 'Properties' tab is active, showing an 'Object overview' section with details such as Owner (ff8362932f47cc3d0947e75e75bf5a019ed1a82b08ef9312f71138793427718), AWS Region (US East (N. Virginia) us-east-1), Last modified (November 11, 2025, 12:59:07 (UTC+06:00)), Size (615.0 B), Type (html), and Key (index.html). To the right of these details are links for S3 URI, Amazon Resource Name (ARN), Entity tag (Etag), and Object URL. Below the overview is an 'Object management overview' section with a 'Bucket properties' subsection showing 'Bucket Versioning' as 'Disabled'. A 'Management configurations' subsection shows 'Replication status' as '-'. At the bottom of the console, there is a footer with 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates.

Amazon S3

General purpose buckets

Directory buckets

Table buckets

Vector buckets

Access Grants

Access Points (General Purpose Buckets, FSx file systems)

Access Points (Directory Buckets)

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

Feature spotlight 11

AWS Marketplace for S3

## index.html

Info

Copy S3 URI Download Open Object actions

Properties Permissions Versions

### Object overview

**Owner**  
ff8362932f47cc3d0947e75e75bf5a019ed1a82b08ef9312f71138793427718

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

**Last modified**  
November 11, 2025, 12:59:07 (UTC+06:00)

**Size**  
615.0 B

**Type**  
html

**Key**  
index.html

**S3 URI**  
<s3://ostad-assignment-4-s3/index.html>

**Amazon Resource Name (ARN)**  
<arn:aws:s3:::ostad-assignment-4-s3/index.html>

**Entity tag (Etag)**  
[7df3d7cf3358af3f470ac7229387ef94](#)

**Object URL**  
<https://ostad-assignment-4-s3.s3.us-east-1.amazonaws.com/index.html>

### Object management overview

The following bucket properties and object management configurations impact the behavior of this object.

#### Bucket properties

**Bucket Versioning**  
When enabled, multiple variants of an object can be stored in the bucket to easily recover from unintended user actions and application failures.  
Disabled

#### Management configurations

**Replication status**  
When a replication rule is applied to an object the replication status indicates the progress of the operation.  
-  
[View replication rules](#)

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#index.html file render from the s3 on browser:

