

Q1)

Creating first internet access security group

The screenshot shows the AWS EC2 Security Groups page. The left sidebar is collapsed. The main area displays the details of a security group named "sg-03fccc29d1bbc019b - internet-access". The "Details" section shows the following information:

Security group name	sg-03fccc29d1bbc019b	Description	internet accessing
Owner	462972487428	Inbound rules count	1 Permission entry
		Outbound rules count	1 Permission entry

The "Inbound rules" tab is selected, showing one rule:

Name	Security group rule...	IP version	Type	Protocol	Port range
-	sgr-0837cc9f219bce417	IPv4	HTTP	TCP	80

Creating second developers security group for connecting with SSH and in source I give MYIP

The screenshot shows the AWS EC2 Security Groups page. The left sidebar is collapsed. The main area displays the details of a security group named "sg-067ca4dfa32989a68 - developer_shh_access". The "Details" section shows the following information:

Security group name	sg-067ca4dfa32989a68	Description	developers ssh access
Owner	462972487428	Inbound rules count	1 Permission entry
		Outbound rules count	1 Permission entry

The "Inbound rules" tab is selected, showing one rule:

group rule...	IP version	Type	Protocol	Port range	Source
1568d4fe6209a	IPv4	SSH	TCP	22	14.143.137.29/32

A red circle highlights the "Source" column in the inbound rule table.

1) Creating Instance with above security group

The screenshot shows the 'Launch an instance' wizard in the AWS EC2 console. The current step is 'Name and tags'. A modal window titled 'Free tier' is displayed, stating: 'In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 500GB of bandwidth in the Regions in which t2.micro is available.' The 'Launch instance' button is highlighted.

Name and tags [Info](#)

Name Add additional tags

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 [aws](#) macOS Ubuntu Windows Red Hat SUSE Linux [Browse more AMIs](#) Including AMIs from

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2... [read more](#)
ami-0440d3b780d96b29d

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Cancel [Launch instance](#) Review commands

The screenshot shows the 'Launch an instance' wizard in the AWS EC2 console. The current step is 'Instance type'. A modal window titled 'Free tier' is displayed, stating: 'In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 500GB of bandwidth in the Regions in which t2.micro is available.' The 'Launch instance' button is highlighted.

Amazon Linux 2023 AMI 2023.5.20240219.0 x86_64 HVM kernel-6.1

Architecture: 64-bit (x86) Boot mode: uefi-preferred AMI ID: ami-0440d3b780d96b29d [Verified provider](#)

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

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: server1-test [Create new key pair](#)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2... [read more](#)
ami-0440d3b780d96b29d

Virtual server type (instance type)
t2.micro

Firewall (security group)
2 security groups

Storage (volumes)
1 volume(s) - 8 GiB

Cancel [Launch instance](#) Review commands

aws Services Search [Alt+S]

Network settings [Info](#)

Network [Info](#)
vpc-0f978c8c6a4569c6f

Subnet [Info](#)
No preference (Default subnet in any availability zone)

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

Common security groups [Info](#)
Select security groups

developer_shh_access sg-067ca4dfa32989a68 [X](#)
VPC: vpc-0f978c8c6a4569c6f

internet-access sg-03fcdd29d1bc019b [X](#)
VPC: vpc-0f978c8c6a4569c6f

Hide all selected

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Configure storage [Info](#) Advanced

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.5.2... [read more](#)
ami-0440d3b780d96b29d

Virtual server type (instance type)
t2.micro

Firewall (security group)
2 security groups

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 300 CPU credits available each month.

Cancel [Launch instance](#) Review commands

[CloudShell](#) [Feedback](#)

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aws Services Search [Alt+S]

Instances (1 / 1) Info

Find Instance by attribute or tag (case-sensitive) Any state

Instance ID: i-029b13911894a2b04 [X](#) Clear Filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic
hello_page	i-029b13911894a2b04	Running	t2.micro	Initializing	View alarms +	us-east-1c	ec2-54-226-222-110.co...	54.226.222.110	-

Instance: i-029b13911894a2b04 (hello_page)

Details Status and alarms [New](#) Monitoring Security Networking Storage Tags

Instance summary [Info](#)

Instance ID i-029b13911894a2b04 (hello_page)	Public IPv4 address 54.226.222.110 [open address]	Private IPv4 addresses 172.31.31.102
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-54-226-222-110.compute-1.amazonaws.com [open address]
Hostname type IP name: ip-172-31-31-102.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-31-102.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding
Auto-assigned IP address	VPC ID	

[CloudShell](#) [Feedback](#)

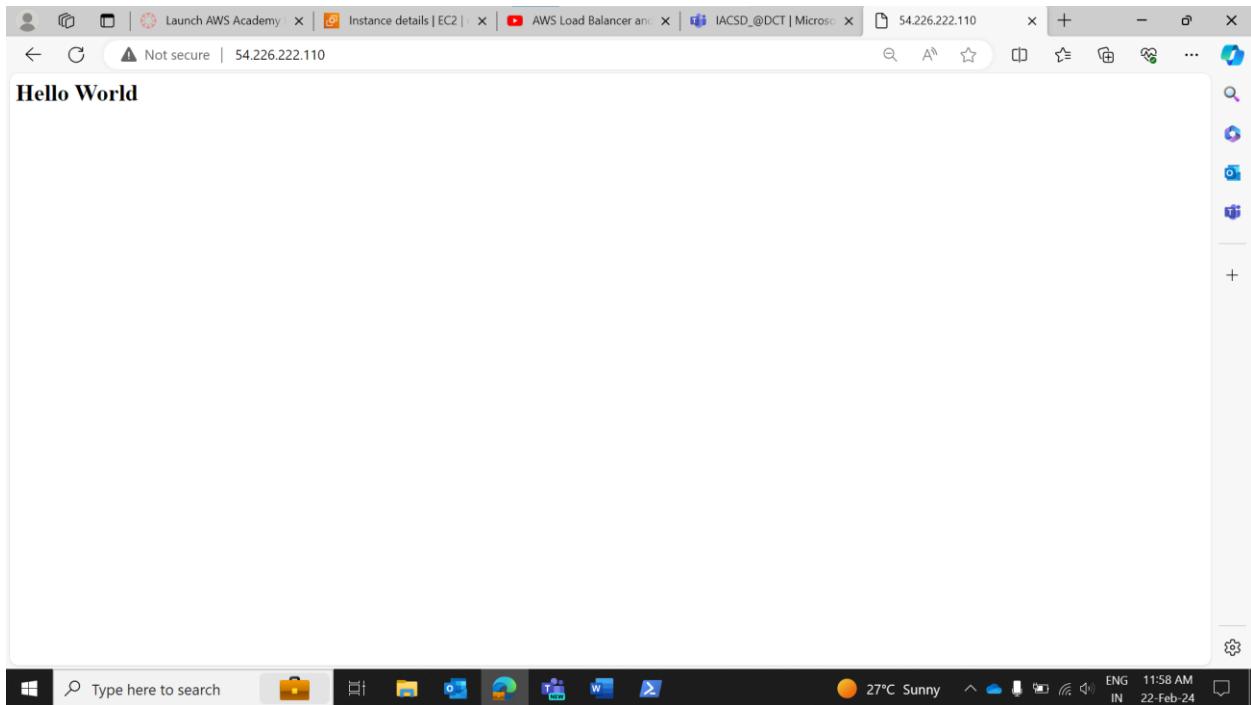
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```
PS C:\Users\Amol.Kanchar> ssh -l c:\Users\Amol.Kanchar\Downloads\server1-test.pem ec2-user@54.226.222.110
,      #
,~\_ ####_      Amazon Linux 2023
~~\_ #####
~~\_ #####
~~\_ #####
~~\_ \#_
~~\_ V-.->
~~\_ /
~~\_ /`-
~~\_ /`-
~~\_ /`-
[ec2-user@ip-172-31-31-102 ~]$ sudo su
[root@ip-172-31-31-102 ec2-user]# yum update -y
Last metadata expiration check: 0:10:36 ago on Thu Feb 22 06:04:12 2024.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-31-102 ec2-user]# yum install httpd
Last metadata expiration check: 0:10:53 ago on Thu Feb 22 06:04:12 2024.
Dependencies resolved.
=====
Repository           Size          Package          Architecture    Version
=====
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 noarch        18.0_0-12.amzn2023.0.3      amazonlinux      19 k
httpd-core           x86_64        2.4.58-1.amzn2023      amazonlinux      1.4 M
httpd-filesystem     noarch        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              noarch        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
=====
Transaction Summary
=====
Install 12 Packages

Total download size: 2.3 M
Installed size: 6.9 M
Is this ok [y/N]: y
```

```
root@ip-172-31-31-102:/home/ec2-user
complete!
[root@ip-172-31-31-102 ec2-user]# systemctl start httpd
[root@ip-172-31-31-102 ec2-user]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-31-102 ec2-user]# chown -R $USER /var/www/html
[root@ip-172-31-31-102 ec2-user]# echo "<hi>Hello World</hi>" > /var/www/html/hello.html
[root@ip-172-31-31-102 ec2-user]#
```

Opening web page with Public-IP



2) Creating target group before load balancer to allocate EC2 as a target

A screenshot of the AWS EC2 Target Groups creation wizard. The current step is 'Step 1: Specify group details'. The 'Basic configuration' section is visible, showing the 'Instances' target type is selected. Other options like 'IP addresses', 'Lambda function', and 'Application Load Balancer' are shown but not selected. A note states: 'Your load balancer routes requests to the targets in a target group and performs health checks on the targets.' At the bottom, there is a 'Target group name' input field and a 'Next Step' button.

Target group name

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

Protocol : Port

Choose a protocol for your target group that corresponds to the Load Balancer type that will route traffic to it. Some protocols now include anomaly detection for the targets and you can set mitigation options once your target group is created. This choice cannot be changed after creation.

HTTP

IP address type

Only targets with the indicated IP address type can be registered to this target group.

IPv4 Each instance has a default network interface (eth0) that is assigned the primary private IPv4 address. The instance's primary private IPv4 address is the one that will be applied to the target.

IPv6 Each instance you register must have an assigned primary IPv6 address. This is configured on the instance's default network interface (eth0). [Learn more](#)

VPC

Select the VPC with the instances that you want to include in the target group. Only VPCs that support the IP address type selected above are available in this list.

vpc-0f978cfcfa5a569e6f
IPv4: 172.31.0.0/16

Protocol version

HTTP1 Send requests to targets using HTTP/1.1. Supported when the request protocol is HTTP/1.1 or HTTP/2.

HTTP2 Send requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.

gRPC Send requests to targets using gRPC. Supported when the request protocol is gRPC.

Health checks

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HTTP requests to targets using HTTP/2. Supported when the request protocol is HTTP/2 or gRPC, but gRPC-specific features are not available.

gRPC Send requests to targets using gRPC. Supported when the request protocol is gRPC.

Health checks

The associated load balancer periodically sends requests, per the settings below, to the registered targets to test their status.

Health check protocol

HTTP

Health check path

Use the default path of "/" to perform health checks on the root, or specify a custom path if preferred.

Up to 1024 characters allowed.

Advanced health check settings

Attributes

Certain default attributes will be applied to your target group. You can view and edit them after creating the target group.

Tags - optional

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

Cancel **Next**

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EC2 > Target groups > Create target group

Step 1: Specify group details

Step 2: Register targets

Register targets

This is an optional step to create a target group. However, to ensure that your load balancer routes traffic to this target group you must register your targets.

Available instances (1)									
	Instance ID	Name	State	Security groups	Zone	Private IPv4 address	Subnet ID	Launch time	
<input type="checkbox"/>	i-029b13911894a2b04	hello_page	Running	developer_sth_access, internet-access	us-east-1c	172.31.31.102	subnet-0770891fe3e839517	February 22, 2024, 11:33 (UTC+0...)	

Ports for the selected instances
Ports for routing traffic to the selected instances.
80
T-45555 (separate multiple ports with commas)
 Include as pending below

1 selection is now pending below. Include more or register targets when ready.

Review targets

Targets (1)

Targets (1)									
	Instance ID	Name	Port	State	Security groups	Zone	Private IPv4 address	Subnet ID	Launch time
<input type="checkbox"/>	i-029b13911894a2b04	hello_page	80	Running	developer_sth_access, internet-access	us-east-1c	172.31.31.102	subnet-0770891fe3e839517	February 22, 2024, 11:33 (UTC+0:30)

1 pending

Cancel Previous Create target group

EC2 Dashboard Services Search [Alt+I] X

Successfully created the target group, demo-test. Anomaly detection is automatically applied to all registered targets. Results can be viewed in the Targets tab.

EC2 > Target groups > demo-test

demo-test

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

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-0f97b0d456bcdf
IP address type	IPv4	Load balancer	

1 Total targets 0 Healthy 0 Unhealthy 1 Unused 0 Initial 0 Draining

Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

Targets		Monitoring	Health checks	Attributes	Tags																		
Registered targets (1/1)																							
Target group route requests to individual registered targets using the protocol and port number specified. Health checks are performed on all registered targets according to the target group's health check settings. Anomaly detection is automatically applied to HTTP/HTTPS target groups with at least 3 healthy targets.																							
<input type="checkbox"/> Filter targets <table border="1"> <thead> <tr> <th></th> <th>Instance ID</th> <th>Name</th> <th>Port</th> <th>Zone</th> <th>Health status</th> <th>Health status details</th> <th>Launch...</th> <th>Anomaly detection result</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td>i-029b13911894a2b04</td> <td>hello_page</td> <td>80</td> <td>us-east-1c</td> <td></td> <td>Target group is not co...</td> <td>February ...</td> <td></td> </tr> </tbody> </table>							Instance ID	Name	Port	Zone	Health status	Health status details	Launch...	Anomaly detection result	<input checked="" type="checkbox"/>	i-029b13911894a2b04	hello_page	80	us-east-1c		Target group is not co...	February ...	
	Instance ID	Name	Port	Zone	Health status	Health status details	Launch...	Anomaly detection result															
<input checked="" type="checkbox"/>	i-029b13911894a2b04	hello_page	80	us-east-1c		Target group is not co...	February ...																

Anomaly mitigation: Not applicable Deregister Register targets

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Creating application load balancer

The screenshot shows the 'Create Application Load Balancer' wizard in the AWS Management Console. The current step is 'Basic configuration'. The 'Load balancer name' field contains 'test-demo'. The 'Scheme' dropdown is set to 'Internet-facing'. The 'IP address type' dropdown is set to 'IPv4'. The 'Network mapping' section is collapsed.

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.

Network mapping [Info](#)
The load balancer routes traffic to targets in the selected subnets, and in accordance with your IP address settings.

The screenshot shows the 'Network mapping' step of the wizard. It lists three subnets under 'Mappings': 'us-east-1a (use1-az1)', 'us-east-1b (use1-az2)', and 'us-east-1c (use1-az4)'. Each entry includes a 'Subnet' dropdown showing the subnet ID, an 'IPv4 address' dropdown, and an 'Assigned by AWS' checkbox.

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-0f978dc6a4569cf
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-az1)
Subnet
IPv4 address
Assigned by AWS

us-east-1b (use1-az2)
Subnet
IPv4 address
Assigned by AWS

us-east-1c (use1-az4)
Subnet
IPv4 address
Assigned by AWS

us-east-1d (use1-az6)
Subnet

AWS Services Search [Alt+S] N. Virginia v vocabs/user3011557~amol.kanchar@dictinc.com @ 4629-7248-7428

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

default sg-01776e0911b10d519 VPC vpc-0f978cfc6a4569cf6

Listeners and routing Info

A listener is a process that checks for connection requests using the port and protocol you configure. The rules that you define for a listener determine how the load balancer routes requests to its registered targets.

▼ Listener HTTP:80

Protocol	Port	Default action	Info
HTTP	: 80 1-65535	Forward to demo-test	Target type: Instance, IPv4 HTTP

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

Load balancer tags - optional

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Successfully created load balancer: test-demo

It might take a few minutes for your load balancer to fully set up and route traffic. Targets will also take a few minutes to complete the registration process and pass initial health checks.

EC2 > Load balancers > test-demo

test-demo

Details

Load balancer type	Status	VPC	IP address type
Application	Provisioning	vpc-0f978cfc6a4569cf6	IPv4
Scheme	Hosted zone	Availability Zones	Date created
Internet-facing	Z355XD0TRQ7X7K	subnet-0911e170ea031010d us-east-1a (use1-az1)	February 22, 2024, 12:41 (UTC+05:30)
		subnet-0b3a844a6813779c0 us-east-1d (use1-az6)	
		subnet-096eaf4d395d1d107 us-east-1f (use1-az5)	
		subnet-0d24ec50e92c78ee4 us-east-1e (use1-az3)	
		subnet-0106833ab11e80988 us-east-1b (use1-az2)	
		subnet-0770891fe3e839517 us-east-1c (use1-az4)	

Load balancer ARN: arn:aws:elasticloadbalancing:us-east-1:462972487428:loadbalancer/app/test-demo/ba671fb353ec846 DNS name info: test-demo-1037404497.us-east-1.elb.amazonaws.com (A Record)

Listeners and rules Network mapping Security Monitoring Integrations Attributes Tags

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Adding security group internet access http

The screenshot shows the AWS Elastic Load Balancing console. On the left, there's a navigation sidebar with options like EC2 Dashboard, EC2 Global View, Events, Console-to-Code, Instances, Images, Elastic Block Store, Network & Security, and more. The main area is titled 'Details' for a specific load balancer. Under 'Listeners and rules', there's a table with one row. Under 'Network mapping', it shows the VPC (vpc-0978c86a4569c6f) and its availability zones (us-east-1a, us-east-1b, us-east-1c). Under 'Security', a table lists a single security group: 'sg-03fcfd29d1bbc019b' with the name 'internet-access' and description 'internet accessing'. This section is circled in red.

Creating second ec2 web page hello guys with same steps above and adding to it in target group

The screenshot shows the AWS EC2 Instances console. The left sidebar includes options for Instances, Images, and Network & Security. The main area displays a table of instances. Two instances are listed: 'hello_page' (instance ID i-029b13911894a2b04) and 'hello_page2' (instance ID i-03ddaf4dd6861fee4). Both instances are running. The 'hello_page2' row is highlighted with a blue selection bar. Below the table, a modal window provides detailed information for 'hello_page2', including its instance ID, public and private IP addresses, instance type (t2.micro), and VPC ID.

One target registered successfully to demo-test.

EC2 > Target groups

Target groups (1/1) [Info](#)

Filter target groups

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
demo-test	arn:aws:elasticloadbalancing:us-east-1:123456789012:targetgroup/demo-test/123456789012345678	80	HTTP	Instance	None associated	vpc-0f978c8c6a4569c6f

Target group: demo-test

Target type	Protocol : Port	Protocol version	VPC
Instance	HTTP: 80	HTTP1	vpc-0f978c8c6a4569c6f
IP address type	Load balancer		
IPv4	None associated		

Total targets: 2

Healthy	Unhealthy	Unused	Initial	Draining
2	0	0	0	0

0 Anomalous

Distribution of targets by Availability Zone (AZ)

Select values in this table to see corresponding filters applied to the Registered targets table below.

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3) Creating AUTO scaling Group

Creating image

The screenshot shows the 'Create image' wizard in the AWS EC2 console. The instance ID is set to 'i-029b13911894a2b04 (hello_page)'. The image name is 'hello-image'. The image description is 'image for ASG'. Under 'Instance volumes', there is one EBS volume configured with a size of 8 GiB, an IOPS of 3000, and throughput of 125 MiB/s. The volume is encrypted and has a delete on termination checkbox checked. A note indicates that Amazon EC2 creates a snapshot of each volume during the creation process. There are two options for tagging: 'Tag image and snapshots together' (selected) and 'Tag image and snapshots separately'. No tags are currently associated with the resource. The 'Create image' button is at the bottom right.

EC2 > Instances > i-029b13911894a2b04 > Create image

Create image Info

An image (also referred to as an AMI) defines the programs and settings that are applied when you launch an EC2 instance. You can create an image from the configuration of an existing instance.

Instance ID
i-029b13911894a2b04 (hello_page)

Image name
hello-image

Maximum 127 characters. Can't be modified after creation.

Image description - optional
image for ASG

Maximum 255 characters

No reboot
 Enable

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose S...	3000	125 MiB/s	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable

Add volume

During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.

Tags - optional
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Tag image and snapshots together
Tag the image and the snapshots with the same tag.

Tag image and snapshots separately
Tag the Image and the snapshots with different tags.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Create image

Creating Template for ASG

The screenshot shows the 'Create launch template' wizard in the AWS EC2 console. The left sidebar lists 'Launch templates' and 'Create launch template'. The main area is titled 'Create launch template' with a sub-section 'Launch template name and description'. It shows a 'Launch template name - required' field containing 'hello-template' and a note that it must be unique. Below it is a 'Template version description' field with 'Template for ASG'. Under 'Auto Scaling guidance', there is a checked checkbox for 'Provide guidance to help me set up a template that I can use with EC2 Auto Scaling'. A callout box provides information about the Free tier. Other sections include 'Template tags' and 'Source template'. The right sidebar shows a 'Summary' section with 'Software Image (AMI)' set to 'image for ASG ami-0652ef31d3436fe29', 'Virtual server type (instance type)' set to '-', 'Firewall (security group)' set to '-', and 'Storage (volumes)' showing '1 volume(s) - 8 GiB'. At the bottom are 'Cancel' and 'Create launch template' buttons.

The screenshot shows the 'Application and OS Images (Amazon Machine Image) - required' search results page. The search bar contains 'Search our full catalog including 1000s of application and OS images'. Below it are tabs for 'Recents', 'My AMIs' (which is selected), and 'Quick Start'. There are filters for 'Owned by me' (selected) and 'Shared with me'. A 'Browse more AMIs' link is available. The main list shows an 'Amazon Machine Image (AMI)' entry for 'hello-image ami-0652ef31d3436fe29 2024-02-22T09:47:24.000Z Virtualization: hvm ENA enabled: true Root device type: ebs'. Below this are sections for 'Description' (containing 'image for ASG'), 'Architecture' (x86_64), 'AMI ID' (ami-0652ef31d3436fe29), and 'Instance type' (with 'Info | Get advice' and 'Advanced' buttons). The right sidebar is identical to the one in the first screenshot, showing the 'Summary' section with the same configuration details and a 'Create launch template' button.

Instance type

t2.micro Free tier eligible

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: 0.0116 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

Additional costs apply for AMIs with pre-installed software

Key pair (login)

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: server1-test

Network settings

Subnet: Info

Don't include in launch template

When you specify a subnet, a network interface is automatically added to your template.

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.

Select existing security group Create security group

Summary

Software Image (AMI)

image for ASG
ami-0652ef51d3436fe29

Virtual server type (instance type)

t2.micro

Firewall (security group)

2 security groups

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Create launch template

When you specify a subnet, a network interface is automatically added to your template.

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.

Select existing security group Create security group

Security groups Info

Select security groups

developer_shh_access sg-067ca4dfa32989a68 X
VPC: vpc-0f978c8c6aa4569c6f

internet-access sg-03fccd29d1bbc019b X
VPC: vpc-0f978c8c6aa4569c6f

Hide all selected

Advanced network configuration

Storage (volumes)

EBS Volumes

Volume 1 (AMI Root) (8 GiB, EBS, General purpose SSD (gp3))
AMI Volumes are not included in the template unless modified

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage X

Add new volume

Summary

Software Image (AMI)

image for ASG
ami-0652ef51d3436fe29

Virtual server type (instance type)

t2.micro

Firewall (security group)

2 security groups

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Create launch template

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EC2 Dashboard EC2 Global View Events Console-to-Code Preview Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups

Launch Templates (1/1) Info

Search

Actions Create launch template

Launch Template ID	Launch Template Name	Default Version	Latest Version	Create Time	Created By
lt-04ffb85c0f55fe218	hello-template	1	1	2024-02-22T09:54:42.000Z	arn:aws:sts::462972487428:assumed-role/vocabs/user3011557+amol.kanchar@dcitinc.com

hello-template (lt-04ffb85c0f55fe218)

Launch template details

Launch template ID: lt-04ffb85c0f55fe218 Launch template name: hello-template Default version: 1 Owner: arn:aws:sts::462972487428:assumed-role/vocabs/user3011557+amol.kanchar@dcitinc.com

Actions Delete template

Details Versions Template tags

Launch template version details

Actions Delete template version

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aws Services Search [Alt+S]

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Choose instance launch options Info

Choose the VPC network environment that your instances are launched into, and customize the instance types and purchase options.

Instance type requirements Info

You can keep the same instance attributes or instance type from your launch template, or you can choose to override the launch template by specifying different instance attributes or manually adding instance types.

Override launch template

Launch template	Version	Description
hello-template <small>Info</small>	Default	Template for ASG
lt-04ffb85c0f55fe218		

Instance type

t2.micro

Network Info

For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.

VPC

Choose the VPC that defines the virtual network for your Auto Scaling group.

vpc-0f978c8c6a4569c6f
172.31.0.0/16 Default

Create a VPC Info

Availability Zones and subnets

Define which Availability Zones and subnets your Auto Scaling group can use in the chosen VPC.

Select Availability Zones and subnets

us-east-1e | subnet-0d24ec50e92c78ee4 X
172.31.48.0/20 Default

us-east-1d | subnet-0b3a844a6813779c0 X
172.31.32.0/20 Default

us-east-1c | subnet-0770891fe3e839517 X
172.31.16.0/20 Default

us-east-1b | subnet-0106833ab11e80988 X
172.31.80.0/20 Default

us-east-1a | subnet-0911e170ea031010d X
172.31.0.0/20 Default

us-east-1f | subnet-096eaf4395d1d107 X

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AWS Services Search [Alt+S]  

EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1
[Choose launch template](#)

Step 2
[Choose instance launch options](#)

Step 3 - optional
[Configure advanced options](#)

Step 4 - optional
[Configure group size and scaling](#)

Step 5 - optional
[Add notifications](#)

Step 6 - optional
[Add tags](#)

Step 7
[Review](#)

Configure advanced options - *optional* Info

Integrate your Auto Scaling group with other services to distribute network traffic across multiple servers using a load balancer or to establish service-to-service communications using VPC Lattice. You can also set options that give you more control over health check replacements and monitoring.

Load balancing Info

Use the options below to attach your Auto Scaling group to an existing load balancer, or to a new load balancer that you define.

No load balancer
Traffic to your Auto Scaling group will not be fronted by a load balancer.

Attach to an existing load balancer
Choose from your existing load balancers.

Attach to a new load balancer
Quickly create a basic load balancer to attach to your Auto Scaling group.

Attach to an existing load balancer

Select the load balancers that you want to attach to your Auto Scaling group.

Choose from your load balancer target groups
This option allows you to attach Application, Network, or Gateway Load Balancers.

Choose from Classic Load Balancers

Existing load balancer target groups
Only instance target groups that belong to the same VPC as your Auto Scaling group are available for selection.

Select target groups  

demo-test | HTTP 
Application Load Balancer: test-demo

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Health checks

Health checks increase availability by replacing unhealthy instances. When you use multiple health checks, all are evaluated, and if at least one fails, instance replacement occurs.

EC2 health checks

Always enabled

Additional health check types - optional | Info

Turn on Elastic Load Balancing health checks | Recommended

Elastic Load Balancing monitors whether instances are available to handle requests. When it reports an unhealthy instance, EC2 Auto Scaling can replace it on its next periodic check.

Turn on VPC Lattice health checks

VPC Lattice can monitor whether instances are available to handle requests. If it considers a target as failed a health check, EC2 Auto Scaling replaces it after its next periodic check.

Health check grace period | Info

This time period delays the first health check until your instances finish initializing. It doesn't prevent an instance from terminating when placed into a non-running state.

300 seconds

Additional settings

Monitoring | Info

Enable group metrics collection within CloudWatch

Default instance warmup | Info

The amount of time that CloudWatch metrics for new instances do not contribute to the group's aggregated instance metrics, as their usage data is not reliable yet.

Enable default instance warmup

CloudShell Feedback

aws Services Search [Alt+S] ▾

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Configure group size and scaling - *optional* Info

Define your group's desired capacity and scaling limits. You can optionally add automatic scaling to adjust the size of your group.

Group size Info

Set the initial size of the Auto Scaling group. After creating the group, you can change its size to meet demand, either manually or by using automatic scaling.

Desired capacity type
Choose the unit of measurement for the desired capacity value. vCPUs and Memory(GiB) are only supported for mixed instances groups configured with a set of instance attributes.

Units (number of instances) ▾

Desired capacity
Specify your group size.
1

Scaling Info

You can resize your Auto Scaling group manually or automatically to meet changes in demand.

Scaling limits
Set limits on how much your desired capacity can be increased or decreased.

Min desired capacity 2 Equal or less than desired capacity

Max desired capacity 5 Equal or greater than desired capacity

Automatic scaling - optional
Choose whether to use a target tracking policy Info
You can set up other metric-based scaling policies and scheduled scaling after creating your Auto Scaling group.

No scaling policies Your Auto Scaling group will remain at its initial size and will not dynamically resize to meet demand.

Target tracking scaling policy Choose a CloudWatch metric and target value and let the scaling policy adjust the desired capacity in proportion to

CloudShell Feedback

Automatic scaling - optional

Choose whether to use a target tracking policy | [Info](#)
You can set up other metric-based scaling policies and scheduled scaling after creating your Auto Scaling group.

No scaling policies
Your Auto Scaling group will remain at its initial size and will not dynamically resize to meet demand.

Target tracking scaling policy
Choose a CloudWatch metric and target value and let the scaling policy adjust the desired capacity in proportion to the metric's value.

Scaling policy name

Metric type | [Info](#)
Monitored metric that determines if resource utilization is too low or high. If using EC2 metrics, consider enabling detailed monitoring for better scaling performance.

Target value

Instance warmup | [Info](#)
 seconds

Disable scale in to create only a scale-out policy

Instance maintenance policy - new [Info](#)

Control your Auto Scaling group's availability during instance replacement events. This includes health checks, instance refreshes, maximum instance lifetime features and events that happen automatically to keep your group balanced, called rebalancing events.

Control availability and cost during replacement events

An instance maintenance policy determines how much availability your application has when EC2 Auto Scaling replaces instances. It also establishes guardrails that limit the amount of capacity that can be added or removed when replacing instances.

[CloudShell](#) [Feedback](#)

Auto Scaling groups (1/1) [Info](#)

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
Hallo-ASG	hello-template Version Default	0	Updating capacity...	1	1	5	us-east-1a, us-east-1b, us-east-1c, us-east-1d, us-east-1e...

Auto Scaling group: Hallo-ASG

Group details			
Auto Scaling group name Hallo-ASG	Desired capacity 1	Desired capacity type Units (number of instances)	Amazon Resource Name (ARN) arn:aws:autoscaling:us-east-1:462972487428:autoScalingGroup:d0bbcbb0-94f1-4ac2-9ba6-14190e40fa37:autoScalingGroupName:Hallo-ASG
Date created Thu Feb 22 2024 15:37:32 GMT+0530 (India Standard Time)	Minimum capacity 1	Status Updating capacity...	
	Maximum capacity 5		

Launch template

Launch template lt-04fb85cf5fe218 hello-template	AMI ID ami-0652ef51d3456fe29	Instance type t2.micro	Owner arn:aws:sts::462972487428:assumed-role/vocabs/user3011557:amol.kanchan@dctinc.com
Version Default	Security groups -	Security group IDs sg-067c4dfa32989a68 sg-03fcdd29d1bbx019b	Create time Thu Feb 22 2024 15:24:42 GMT+0530 (India Standard Time)

[CloudShell](#) [Feedback](#)

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Instances (3) info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic
hello_page	i-029b13911894a2b04	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-174-129-122-25.co...	174.129.122.25	-
hello_page2	i-03ddaf4dd6861fee4	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-54-221-151-225.co...	54.221.151.225	-
	i-07496099abdef6fb	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1c	ec2-18-212-210-40.co...	18.212.210.40	-

Select an instance

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Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups Elastic IPs Placement Groups Load Balancing Target Groups Trust Stores New Auto Scaling Auto Scaling Groups CloudShell Feedback

EC2 > Target groups

Target groups (1/1) info

Name	ARN	Port	Protocol	Target type	Load balancer	VPC ID
demo-test	arn:aws:elasticloadbalanci...	80	HTTP	Instance	test-demo	vpc-0f978cd6a4569c6f

Target group: demo-test

Registered targets (3) info

Anomaly mitigation: Not applicable

Instance ID	Name	Port	Zone	Health status	Health status details	Launch time	Anomaly detectio...
i-07496099abdef6fb	hello_page	80	us-east-1c	Healthy	-	February 22, 2024, 15:37 (U...	Normal
i-029b13911894a2b04	hello_page2	80	us-east-1c	Healthy	-	February 22, 2024, 15:10 (U...	Normal
i-03ddaf4dd6861fee4		80	us-east-1c	Healthy	-	February 22, 2024, 15:10 (U...	Normal

Q2) Static Website Hosting

AWS Services Search [Alt+S]

Amazon S3 > Buckets > Create bucket

Create bucket Info

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

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](#)
myhelpful-buck

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.
[Choose bucket](#)

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.

⚠️ We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.

Object Ownership

Bucket owner preferred
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

Object writer
The object writer remains the object owner.

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Services [Alt+S]

<h3>Block Public Access settings for this bucket</h3> <p>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</p> <p><input type="checkbox"/> 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.</p> <ul style="list-style-type: none"><input type="checkbox"/> 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.<input type="checkbox"/> 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.<input type="checkbox"/> 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.<input type="checkbox"/> 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. <p>A Turning off block all public access might result in this bucket and the objects within becoming public AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.</p> <p><input type="checkbox"/> I acknowledge that the current settings might result in this bucket and the objects within becoming public.</p>
<h3>Bucket Versioning</h3> <p>Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more</p> <p><input type="radio"/> Disable <input checked="" type="radio"/> Enable</p>
<h3>Tags - optional (0)</h3> <p>You can use bucket tags to track storage costs and organize buckets. Learn more</p> <p>No tags associated with this bucket.</p>

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Upload succeeded
View details below.

Upload: status Close

The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded	Failed
s3://myhelpful-buck	2 files, 523.0 B (100.00%)	0 files, 0 B (0%)

Files and folders (2 Total, 523.0 B) Find by name

Name	Folder	Type	Size	Status	Error
error.html	-	text/html	326.0 B	Succeeded	-
index.html	-	text/html	197.0 B	Succeeded	-

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AWS Services Search [Alt+S]

Amazon S3 > Buckets > myhelpful-buck > 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



AWS Policy Generator

The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see [key concepts in Using AWS Identity and Access Management](#). Here are [sample policies](#).

Step 1: Select Policy Type

A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See [a description of elements](#) that you can use in statements.

Effect Allow Deny

Principal

Use a comma to separate multiple values.

AWS Service All Services ('*')

Use multiple statements to add permissions for more than one service.

Actions All Actions ('*')

Amazon Resource Name (ARN)

ARN should follow the following format: arn:aws:s3:::\${BucketName}/\${KeyName}.

Use a comma to separate multiple values.

You added 1 statement(s).

Principal

Step 3: A policy is a container for permissions.

Actions All Actions ('*')

Amazon Resource Name (ARN)

Policy JSON Document

Click below to edit. To save the policy, copy the text below to a text editor.
Changes made below will not be reflected in the policy generator tool.

```
{ "Id": "Policy1708610918868", "Version": "2012-10-17", "Statement": [ { "Sid": "Stmt1708610907877", "Action": [ "s3:GetObject" ], "Effect": "Allow", "Resource": "arn:aws:s3:::myhelpful-buck", "Principal": "*" } ] }
```

This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in accordance with all applicable laws and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express or implied.

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Bucket ARN
arn:aws:s3:::myhelpful-buck

Policy

```
1 ▼ {
2   "Id": "Policy1708610918868",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmt1708610907877",
7       "Action": [
8         "s3:GetObject"
9       ],
10      "Effect": "Allow",
11      "Resource": "arn:aws:s3:::myhelpful-buck/*",
12      "Principal": "*"
13    }
14  ]
15 }
```

Edit statement Stmt1708610907877 Remove

Add actions Choose a service Filter services

Included S3

Available AMP API Gateway API Gateway V2 ASC Access Analyzer Account Activate Alexa for Business

Add a resource Add

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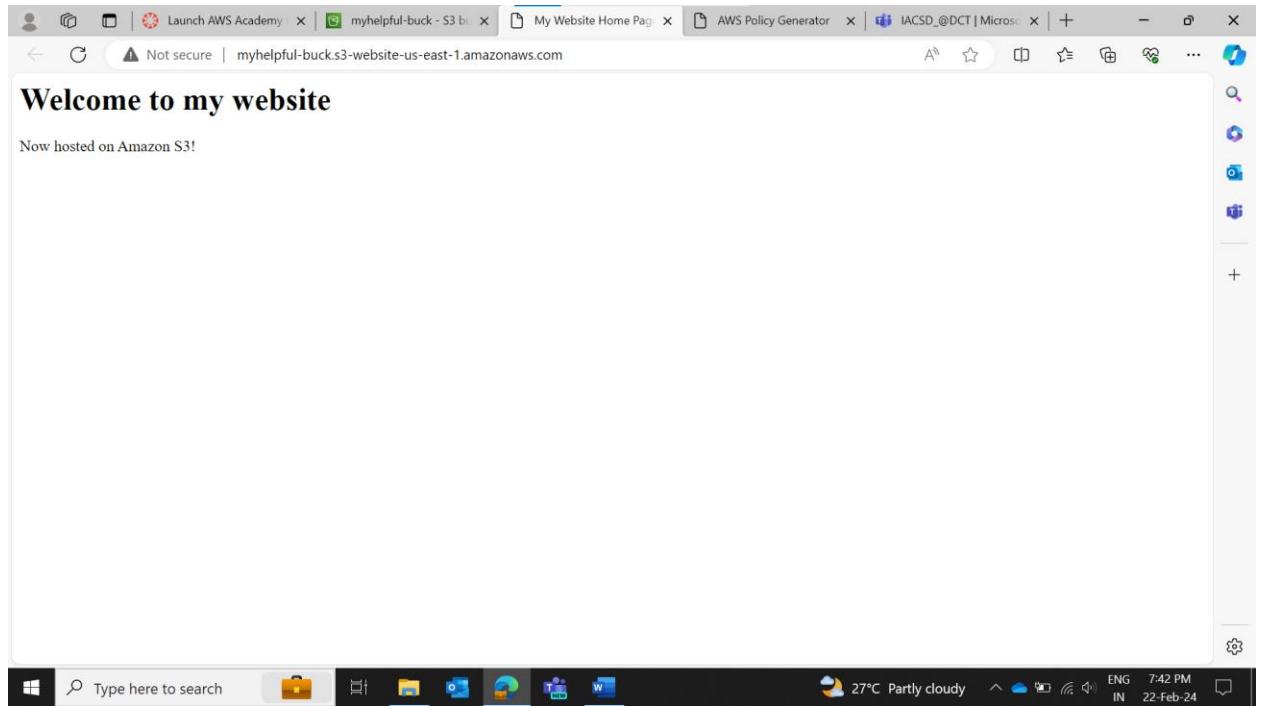
Amazon S3 > Buckets > myhelpful-buck > Edit cross-origin resource sharing (CORS)

Edit cross-origin resource sharing (CORS) Info

Cross-origin resource sharing (CORS)
The CORS configuration, written in JSON, defines a way for client web applications that are loaded in one domain to interact with resources in a different domain. [Learn more](#)

```
1 ▼ [
2   {
3     "AllowedHeaders": [
4       "*"
5     ],
6     "AllowedMethods": [
7       "GET"
8     ],
9     "AllowedOrigins": [
10       "*"
11     ],
12     "ExposeHeaders": []
13   }
14 ]
```

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A screenshot of the AWS Management Console, specifically the S3 Bucket Properties page for a bucket named "myhelpful-buck". The "Static website hosting" section is highlighted. It shows that "Bucket hosting" is enabled and provides the public endpoint URL `http://myhelpful-buck.s3-website-us-east-1.amazonaws.com`. This URL is circled in red. Other sections visible include "Object Lock" and "Requester pays". The top navigation bar shows "Services" and the search bar. The bottom footer includes links for "cloudShell", "Feedback", and copyright information: "© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences".

