

AWS Lab Work

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EC2 Service of AWS

https://us-east-1.console.aws.amazon.com/billing/home#/costcategories

aws Services X

Home

Billing

Bills

Payments

Credits

Purchase orders

Cost & Usage Reports

Cost Categories

Cost allocation tags

Free Tier

Billing Conductor

Cost Management

Cost Explorer

Budgets

Budgets Reports

Savings Plans

Preferences

Billing preferences

Payment methods

Consolidated billing

Tax settings

Search results for 'ec2'

Services (8) [See all 8 results ▶](#)

EC2 ☆ Virtual Servers in the Cloud

EC2 Image Builder ☆ A managed service to automate build, customize and deploy OS images

AWS Compute Optimizer ☆ Recommend optimal AWS Compute resources for your workloads

AWS Firewall Manager ☆ Central management of firewall rules

Features (46) [See all 46 results ▶](#)

Dashboard EC2 feature

Limits EC2 feature

AMIs EC2 feature

Export snapshots to EC2 Lightsail feature

Enable Cost Explorer

Billing data access. Once Cost Explorer is enabled, it can take up to 24 hours



Use with the Cost Management console

Once you've set up cost categories, you can view your cost and usage information in AWS Cost Explorer, and AWS Cost and Usage Reports. You can also set up AWS Budgets and Cost Anomaly Detection using your cost categories.

Create cost category

Delete **Edit**

Status Explore category costs

You HAVE NOT created any cost categories.

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Security group creation (firewall)

AWS Services Search for services, features, blogs, docs, and more [Alt+S]

Events Tags Limits

Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations

Images AMIs New AMI Catalog

Elastic Block Store Volumes New Snapshots New Lifecycle Manager New

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs Network Interfaces

Load Balancing

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

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

Security Groups (1/3) Info

Filter security groups

Actions Export security groups to CSV Create security group

Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules count	Outbound rules co...
-	sg-018d18d7492fd2bd2	default	vpc-0c513531372931e93	default VPC security gr...	905785452291	1 Permission entry	1 Permission entry
-	sg-01146055127e14e97	launch-wizard-1	vpc-0c513531372931e93	launch-wizard-1 create...	905785452291	1 Permission entry	1 Permission entry
<input checked="" type="checkbox"/>	sg-00e75b6a809db6e6f	launch-wizard-2	vpc-0c513531372931e93	launch-wizard-2 create...	905785452291	0 Permission entries	1 Permission entry

Details Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Inbound rules

Filter security group rules

Actions Manage tags Edit inbound rules

Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
No security group rules found							

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Create security group Info

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name [Info](#)

MyWebServerGroup

Description Info

Allows SSH access to developers

VPC Info

Q vpc-0c513531372931e93

Inbound rules

This security group has no inbound rules.

Add rule

Outbound rules Info

Type Info

Protocol Info

Port range

Destination Info

Description - optional [Info](#)

All traffic

A

A

Custom

9

0.0.0.0/0 X

Delete

Security rules. In a real DC, you should be careful when defining the rules

Inbound rules [Info](#)

Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
All traffic	All	All	Anywhere- I...	<input type="text"/> 0.0.0.0/ X

Add rule

Outbound rules [Info](#)

Type Info	Protocol Info	Port range Info	Destination Info	Description - optional Info
All traffic	All	All	Custom ▼	<input type="text"/> 0.0.0.0/ X

Add rule

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.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags

Cancel [Create security group](#)

Create a new VM

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

New EC Experience
Tell us what you think

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EC2 Global View

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Lifecycle Manager New

Network & Security

Security Groups

Elastic IPs

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Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	0	Dedicated Hosts	0	Elastic IPs	0
Instances	0	Key pairs	0	Load balancers	0
Placement groups	0	Security groups	1	Snapshots	0
Volumes	0				

(i) Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#) X

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▼ Migrate a server [Link]

Note: Your instances will launch in the US East (N. Virginia) Region

Scheduled events

US East (N. Virginia)
No scheduled events

Migrate a server

Service health

Region: US East (N. Virginia) Status: This service is operating normally

Zones

Zone name	Zone ID
us-east-1a	use1-az4
us-east-1b	use1-az6
us-east-1c	use1-az1
us-east-1d	use1-az2
us-east-1e	use1-az3

Account attributes

Supported platforms [Link]

- VPC

Default VPC [Link]
vpc-0c513531372931e93

Settings

EBS encryption

Zones

EC2 Serial Console

Default credit specification

Console experiments

Explore AWS

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EC2 Inf1 Instances provide high performance and lowest cost ML Inference in the cloud. [Learn more](#) [Link]

Get Up to 40% Better Price Performance
T4g Instances deliver the best price performance for burstable general purpose workloads in Amazon EC2. [Learn more](#) [Link]

Enable Best Price-Performance with AWS Graviton2
AWS Graviton2 powered EC2 Instances enable up to 40% better price performance for a broad spectrum of cloud workloads. [Learn more](#) [Link]

Additional information

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

You've been opted into the new launch experience. You can return to the previous version, but next time you log in, you'll automatically be opted into the new experience. [Find out more](#) or [send us feedback](#). Starting October 1, 2022, we will begin decommissioning the previous version.

Opt out to the old experience

N. Virginia

Rechercher la recherche

EC2 > Instances > Launch an instance

Launch an instance

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags

Name: e.g. My Web Server

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GB

Important because it is free tiers

Application and OS Images (Amazon Machine Image)

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

Select your OS

Quick Start

Amazon Linux, macOS, Ubuntu, Windows, Red Hat, S, Browse more AMIs

Ubuntu

ubuntu®

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type

Free tier eligible

Cancel

Launch instance

Feedback

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

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour

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 - required

Select Create new key pair

Network settings

Network: vpc-0c513531372931e93

Subnet: No preference (Default subnet in any availability zone)

Auto-assign public IP: Enable

Firewall (security groups): Create security group

Summary

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI...read more
ami-05fa00d4c63e52376

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

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

Free tier: In your first year 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 100 GB of bandwidth to the internet.

Cancel Launch instance

Don't forget to save the generated key.

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

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

We'll create a new security group called 'launch-wizard-1' with the following rules:

Allow SSH traffic from
Helps you connect to your instance

Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the Internet
To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Configure storage

Advanced

1x 8 GIB gp2 Root volume

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

Add new volume

0 x File systems Edit

Advanced details

Summary

Number of instances **1**

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-05fa00d4c63e32376

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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

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 GB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel **Launch instance**

This screenshot shows the AWS EC2 Launch Instances wizard. It's divided into two main sections: 'Firewall (security groups)' and 'Configure storage'. The 'Firewall' section has a note about security group rules and a warning about allowing all IP addresses. The 'Configure storage' section shows a root volume of 8 GiB. The right side of the screen displays the 'Summary' of the instance configuration, including the number of instances (1), software image (Amazon Linux 2), virtual server type (t2.micro), and storage (1 volume). A callout box highlights the 'Free tier' information. At the bottom right, there are 'Cancel' and 'Launch instance' buttons, with the 'Launch instance' button being highlighted by a red rectangle.

← → C https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances: ☆

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ⓘ You've been opted into the new launch experience. You can return to the previous version, but next time you log in, you'll automatically be opted into the new experience. [Find out more](#) or [send us feedback](#). Starting October 1, 2022, we will begin decommissioning the previous version. Opt out to the old experience X

EC2 > Instances > Launch an instance

 Success
Successfully initiated launch of instance (i-0b99fb732cdaddebc)

▶ Launch log

Next Steps

Get notified of estimated charges
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)

How to connect to your instance
Your instance is launching and it might be a few minutes until it is in the running state, when it will be ready for you to use
Click [View Instances](#) to monitor your instance's status. Once your instance is in the 'running' state, you can connect to it from the Instances screen. Find out [how to connect to your instance](#)
[View more resources to get you started](#)

[View all instances](#)

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

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- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances [New](#)
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

Images

- AMIs [New](#)
- AMI Catalog

Elastic Block Store

- Volumes [New](#)
- Snapshots [New](#)
- Lifecycle Manager [New](#)

Network & Security

- Security Groups
- Elastic IP

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
MyVM	i-0b99fb732cdaddebc	Pending	t2.micro	-	No alarms +	us-east-1a	ec2-3-91-6-208.comput...	3.91.6.208	-

Select an instance

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0b99fb732cdaddebc

EC2 > Instances > i-0b99fb732cdaddebc > Connect to instance

Connect to instance Info

Connect to your instance i-0b99fb732cdaddebc (MyVM) using any of these options

EC2 Instance Connect | Session Manager | **SSH client** | EC2 serial console

⚠ You may not be able to connect to this instance as ports 22 may need to be open in order to be accessible. The current associated security groups don't have ports 22 open.

Instance ID
 i-0b99fb732cdaddebc (MyVM)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is MyVM.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
 chmod 400 MyVM.pem
4. Connect to your instance using its Public DNS:
 ec2-3-91-6-208.compute-1.amazonaws.com

Example:
 ssh -i "MyVM.pem" ec2-user@ec2-3-91-6-208.compute-1.amazonaws.com

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

```
[tab@Tab-pc Download]$ chmod 400 MyVM.pem
[tab@Tab-pc Download]$ ssh -i "MyVM.pem" ec2-user@ec2-3-91-6-208.compute-1.amazonaws.com
^C
[tab@Tab-pc Download]$ ssh -i "MyVM.pem" ec2-user@ec2-3-91-6-208.compute-1.amazonaws.com
The authenticity of host 'ec2-3-91-6-208.compute-1.amazonaws.com (3.91.6.208)' can't be established.
ED25519 key fingerprint is SHA256:9X96YZBp6YndIfC3Hey9P/dbrLsaw+cMjq1vwdhYAM.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-91-6-208.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
```

```
--| --|_
-| (   /    Amazon Linux 2 AMI
---| \---|---|
```

```
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 11 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-17-132 ~]$
```

Install an application
in the VM

root@ip-172-31-17-132:/home/ec2-user 117x56

```
[ec2-user@ip-172-31-17-132 ~]$ sudo bash
[root@ip-172-31-17-132 ec2-user]# apt-get update
bash: apt-get: command not found
[root@ip-172-31-17-132 ec2-user]# apt-get install apache2
bash: apt-get: command not found
[root@ip-172-31-17-132 ec2-user]# █
```

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

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Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS Public IPv4 ... Elastic IP

MyVM i-0b99fb732cdaddebc Running t2.micro - No alarms + us-east-1a ec2-3-91-6-208.compute... 3.91.6.208 -

Test your installation by using the DNS name in a browser to check the apache2 installation

Instance: i-0b99fb732cdaddebc (MyVM)

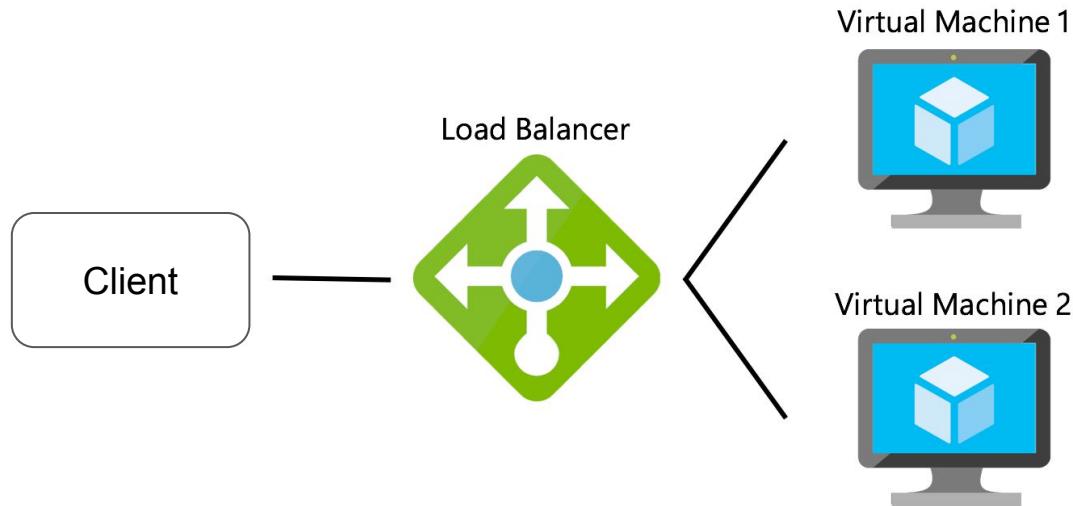
Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID i-0b99fb732cdaddebc (MyVM)	Public IPv4 address 3.91.6.208 open address	Private IPv4 address 172.31.17.132
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-91-6-208.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-17-132.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-17-132.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-In to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 3.91.6.208 [Public IP]	VPC ID vpc-0c513531372931e93	

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Create a Load balancer



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

aws Services

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EC2 Target groups

Target groups (1) Info

Search or filter target groups

Create target group

Name ARN Port Protocol Target type Load balancer VPC ID

MyTG arn:aws:elasticloadbalancing:... 80 HTTP Instance MyLB vpc-0c513531372931e93

0 target groups selected

Select a target group above.

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateTargetGroup:protocol=HTTP&vpc=vpc-0c513531372931e93

EC2 Services Search for services, features, blogs, docs, and more [Alt+S]

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Step 1 Specify group details

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

Step 2 Register targets

Basic configuration
Settings in this section cannot 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.

Lambda function

- Facilitates routing to a single Lambda function.
- Accessible to Application Load Balancers only.

Application Load Balancer

- Offers the flexibility for a Network Load Balancer to accept and route TCP requests within a specific VPC.
- Facilitates using static IP addresses and PrivateLink with an Application Load Balancer.

Target group name:

Protocol: Port:

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

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HTTP : 80

VPC

Select the VPC with the instances that you want to include in the target group.

vpc-0c513531372931e93
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

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 ping the root, or specify a custom path if preferred.

/

Up to 1024 characters allowed.

► Advanced health check settings

► 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

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 (1/1)

Available instances (1/1)						
Instance ID	Name	State	Security groups	Zone	Subnet ID	Actions
<input checked="" type="checkbox"/> i-0b99fb732cdaddebc	MyVM	running	launch-wizard-1	us-east-1a	subnet-0145589b42af62c85	

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

Review targets

Targets (0)

Remove all pending

All Filter resources by property or value

< 1 >

Remove	Health status	Instance ID	Name	Port	State	Security groups	Zone	Subnet ID
No instances added yet								

Specify instances above, or leave the group empty if you prefer to add targets later.

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancers:sort=loadBalancerName

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Create Load Balancer Actions ▾

Filter by tags and attributes or search by keyword

Name DNS name State VPC ID Availability Zones Type Created At Monitoring

You do not have any load balancers in this region.

Select a load balancer

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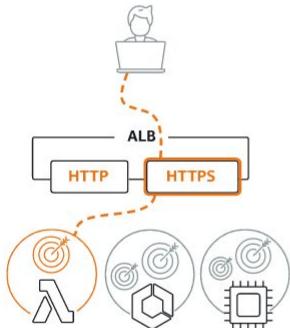
The screenshot shows the AWS EC2 console interface. On the left, there's a navigation sidebar with various service links. The 'Load Balancing' section is expanded, and its 'Load Balancers' link is highlighted with a red box. At the top center, there's a main content area with a search bar and a 'Create Load Balancer' button, which is also highlighted with a red box. Below the search bar is a table header for managing load balancers, followed by a message stating 'You do not have any load balancers in this region.' At the bottom of the main content area, there's a 'Select a load balancer' section. The entire interface has a standard light blue header and a white body with some gray shading for buttons and tables.

Select load balancer type

A complete feature-by-feature comparison along with detailed highlights is also available. [Learn more](#)

Load balancer types

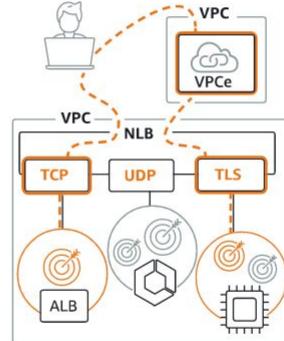
Application Load Balancer [Info](#)



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 [Info](#)



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 [Info](#)



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](#)

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. Only VPCs with an internet gateway are enabled for selection. The selected VPC cannot be changed after the load balancer is created. To confirm the VPC for your targets, view your [target groups](#).

vpc-0c513531372931e93
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
 - us-east-1b
 - us-east-1c
 - us-east-1d
 - us-east-1e
 - us-east-1f

Security groups Info

A security group is a set of firewall rules that control the traffic to your load balancer.

Security groups

Select up to 5 security answers

53

Security groups Info

A security group is a set of firewall rules that control the traffic to your load balancer.

Security groups

Select up to 5 security groups

Create new security group

default sg-018d18d7492fd2bd2 X
VPC: vpc-0c513531372931e93

Select your security group

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

Remove

Protocol Port

HTTP : 80

1-65535

Default action Info

Forward to Select a target group



Create target group

Add listener

▼ Add-on services - *optional*

Additional AWS services can be integrated with this load balancer at launch. You can also add these and other services after your load balancer is created by reviewing the "Integrated Services" tab for the selected load balancer.

AWS Global Accelerator [Info](#)

Create an accelerator to get static IP addresses and improve the performance and availability of your applications. [Additional charges apply](#) 

► Tags - *optional*

Consider adding tags to your load balancer. Tags enable you to categorize your AWS resources so you can more easily manage them. The 'Key' is required, but 'Value' is optional. For example, you can have Key = production-webserver, or Key = webserver, and Value = production.

Summary

Review and confirm your configurations. Estimate cost 

Basic configuration Edit	Security groups Edit	Network mapping Edit	Listeners and routing Edit
<i>Load balancer name not defined</i> <ul style="list-style-type: none">• Internet-facing• IPv4	<ul style="list-style-type: none">• default sg-018d18d7492fd2bd2 	VPC vpc-0c513531372931e93  Subnet not defined	<ul style="list-style-type: none">• HTTP:80 defaults to <i>Target group not defined</i>
Add-on services Edit None		Tags Edit None	

Attributes

i Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer.

Cancel

Create load balance

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancers:search=MyLB;sort=loadBalancerName

New EC2 Experience Tell us what you think

Create Load Balancer Actions

EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIs New AMI Catalog Elastic Block Store Volumes New Snapshots New Lifecycle Manager New Network & Security Security Groups Elastic IPs Feedback Looking for language selection? Find it in the new Unified Settings

Search for services, features, blogs, docs, and more [Alt+S]

1 to 1 of 1

Name	DNS name	State	VPC ID	Availability Zones	Type	Created At	Monitoring
MyLB	MyLB-112483625.us-east-1...	Provisioning	vpc-0c513531372931e93	us-east-1b, us-east-1a	application	September 16, 2022 at 6:41:...	

Use the DNS name of the load balancer to check your configuration

Load balancer: MyLB

Description Listeners Monitoring Integrated services Tags

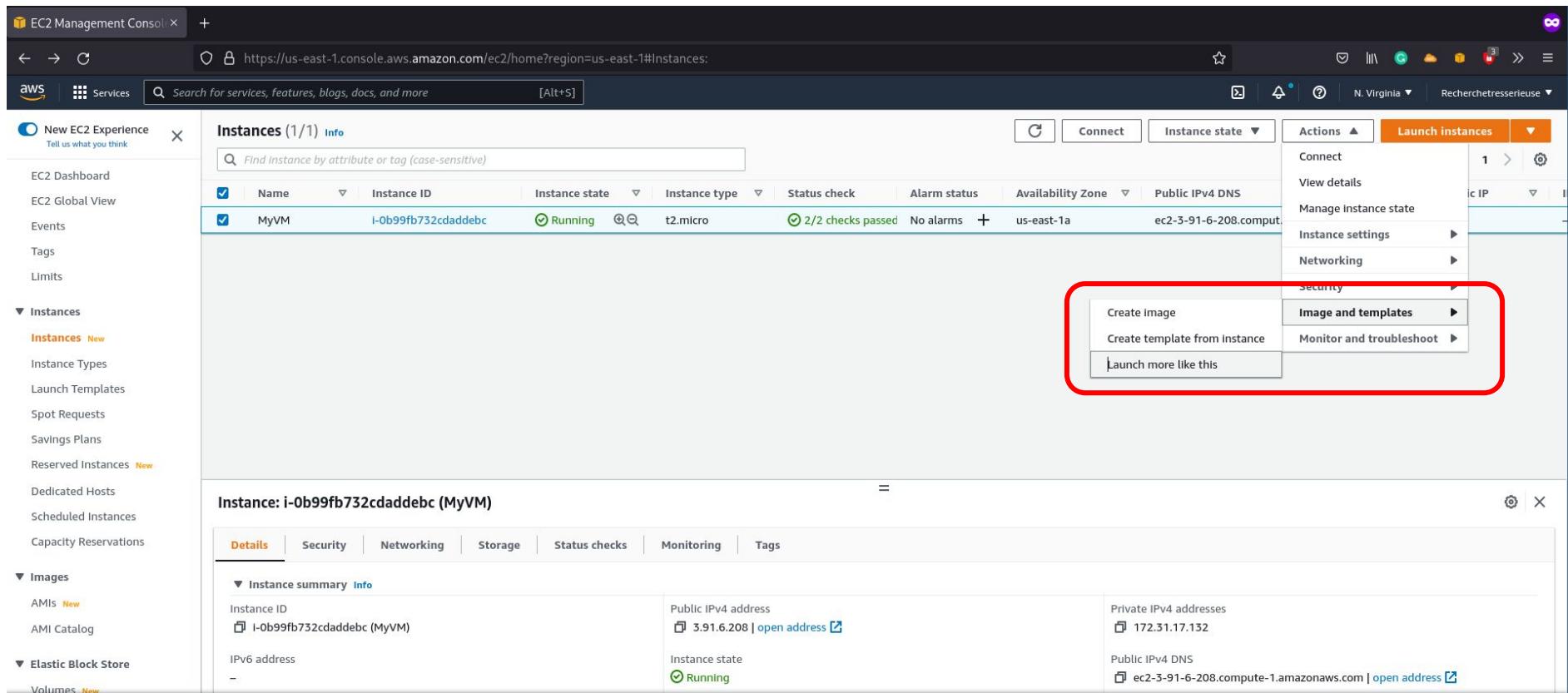
Basic Configuration

Name	MyLB
ARN	arn:aws:elasticloadbalancing:us-east-1:90578545229:loadbalancer/app/MyLB/f87b47916c439aa9
DNS name	MyLB-112483625.us-east-1.elb.amazonaws.com (A Record)
State	Provisioning

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To Do: Add a new VM to you LB

- Therefore, clone your running VM and add the the new VM to the target Group.
- Check if your load balancer balances the load between the two VMs (you can use the curl command from your terminal: ***curl -sv LoadBalancer DNSName***)
 - **Don't forget to connect to the new VM and check that apache2 is installed.**



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Section 10.4

[Customize cookies](#)

S3 and Lambda function

- Add a bucket to S3

Lambda EC2 Management Console +

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancers:sort=loadBalancerName

N. Virginia Recherchette

New EC2 Experience Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs New

AMI Catalog

Elastic Block Store

Volumes New

Snapshots New

Lifecycle Manager New

Network & Security

Security Groups

Elastic IPs

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Search results for 's3'

Services (7)

Features (12)

Blogs (1,128)

Documentation (112,131)

Knowledge Articles (30)

Tutorials (7)

Events (14)

Marketplace (840)

S3 Scalable Storage in the Cloud

S3 Glacier Archive Storage in the Cloud

Athena Query Data in S3 using SQL

AWS Snow Family Large Scale Data Transport

See all 7 results ▶

availability Zones Type Created At Monitoring

us-east-1b, us-east-1a application September 16, 2022 at 6:41:...

Amazon S3 File Gateway Storage Gateway feature

Batch Operations S3 feature

Buckets S3 feature

Access points

1 to 1 of 1

Feedback Looking for language selection? Find it in the new Unified Settings

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Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

[Create bucket](#)

Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the [AWS Simple Monthly Calculator](#)

[View pricing details](#)

Resources

[User guide](#)

[API reference](#)

[FAQs](#)

How it works



A Lambda X S3 bucket + https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1 ☆

aws Services Search for services, features, blogs, docs, and more [Alt+S] Global ▾ Recherchetressercheuse ▾

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

Amazon S3 > Buckets > Create bucket

Create bucket Info

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

General configuration

Bucket name Bucket name must be globally unique and must not contain spaces or uppercase letters. See [rules for bucket naming](#)

AWS Region

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

[Choose bucket](#)

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

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Lambda S3 bucket + https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1

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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 application requirements are met.

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.

⚠ 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.

I acknowledge that the current settings might result in this bucket and the objects within becoming public.

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Lambda S3 bucket

https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1

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We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Bucket Versioning

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](#)

Bucket Versioning

Disable
 Enable

Tags (0) - optional

Track storage cost or other criteria by tagging your bucket. [Learn more](#)

No tags associated with this bucket.

Add tag

Default encryption

Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption

Disable
 Enable

► Advanced settings

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

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A Lambda S3 bucket + https://s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1

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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](#)

Bucket Versioning

Disable
 Enable

Tags (0) - optional
Track storage cost or other criteria by tagging your bucket. [Learn more](#)

No tags associated with this bucket.

Add tag

Default encryption
Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption

Disable
 Enable

► Advanced settings

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

Create bucket

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

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Lambda S3 Management Console + https://s3.console.aws.amazon.com/s3/buckets?region=us-east-1 Search for services, features, blogs, docs, and more [Alt+S] Global Recherchette

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Successfully created bucket "buckteabe". To upload files and folders, or to configure additional bucket settings choose [View details](#).

Follow security best practices for S3. Learn more

Amazon S3 > Buckets

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Buckets (1) [Info](#)

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

[View Storage Lens dashboard](#)

[C](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

[Find buckets by name](#)

Name	AWS Region	Access	Creation date
buckteabe	US East (N. Virginia) us-east-1	Objects can be public	September 19, 2022, 15:54:15 (UTC+02:00)

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

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- Create your function

Instances | EC2 Manager +

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

Services Services Search results for 'lam'

New EC2 Experience Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

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Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images AMIs New

AMI Catalog

Elastic Block Store Volumes Volumes New

Snapshots Snapshots New

Lifecycle Manager Lifecycle Manager New

Network & Security Security Groups

Elastic IPs

Lambda

Services (11)

Features (19)

Blogs (2,111)

Documentation (31)

Tutorials (7)

Events (16)

Marketplace (8)

See all 11 results ▶

Lambda ☆ Run Code without Thinking about Servers

CodeBuild ☆ Build and Test Code

AWS Signer ☆ Ensuring trust and integrity of your code

Amazon Lex ☆ Build Voice and Text Chatbots

See all 19 results ▶

Local processing IoT Core feature

Target groups EC2 feature

Publish applications Serverless Application Repository feature

Groups IAM feature

Connect Instance state Actions Launch instances

Alarm status Availability Zone Public IPv4 DNS Public IPv4 ... Elastic IP

No alarms + us-east-1 ec2-3-91-6-208.compute... 3.91.6.208 -

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A Functions - Lambda +

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions

Services Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia Recherchertresserieuse

AWS Lambda

Lambda > Functions

Functions (0)

Last fetched now Actions Create function

Filter by tags and attributes or search by keyword

Function name Description Package type Runtime Last modified

There is no data to display.

Dashboard Applications Functions Additional resources Code signing configurations Layers Replicas Related AWS resources Step Functions state machines

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Lambda

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function

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Create function Info

Choose one of the following options to create your function.

- Author from scratch** Start with a simple Hello World example.
- Use a blueprint** Build a Lambda application from sample code and configuration presets for common use cases.
- Container image** Select a container image to deploy for your function.
- Browse serverless app repository** Deploy a sample Lambda application from the AWS Serverless Application Repository.

Basic information

Function name Enter a name that describes the purpose of your function. MyFunction

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime Info Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.8

Architecture Info Choose the instruction set architecture you want for your function code.

x86_64 arm64

Permissions Info

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

▶ Change default execution role

Advanced settings



Successfully updated the function MyFunction.

Function URL [Info](#)

Code Test Monitor Configuration Aliases Versions

Code source [Info](#)

Upload from ▾

File Edit Find View Go Tools Window

Test Deploy

Go to Anything (Ctrl-P)

lambda_function

MyFunction
lambda_function.py

```
1 import json
2
3 def lambda_handler(event, context):
4     print("je fais un test")
5     return "Un test"
6
7
```



A function URL is a dedicated HTTP(S) endpoint for your function. When your function URL is configured, you can use it to invoke your function through a browser, curl, Postman, or any HTTP client. When you configure a function URL from the main function page, Lambda assigns the function URL to the `$LATEST` unpublished version of your function. You cannot assign a function URL to any other function version, but you can assign a function URL to any function alias.

To add a function URL, choose the **Configuration** tab, then choose the **Function URL** tab in the left menu. To add a function URL to an alias, choose an alias from the **Aliases** tab, choose **Configuration**, and then choose **Function URL**.

[Learn more](#)[Function URLs](#)

1:1 Python Spaces: 4

Code properties

Package size
299.0 byte

SHA256 hash
 f106ZIRH/KN6Ra3twvdRllUYaxv182Tjx0qNWNlKih!=

Last modified
September 19, 2022 at 01:35 PM GMT+2

Runtime settings

[Actions](#) [Edit](#)

Runtime
Python 3.8

Handler
lambda_function.lambda_handler

Architecture
x86_64

Layers

[Edit](#) [Add a layer](#)

Merge order	Name	Layer version	Compatible runtimes	Compatible architectures	Version ARN
There is no data to display.					

Lambda > Add trigger

Add trigger

Trigger configuration

Select a source

Cancer

1

Lambda x S3 Management Console x +

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/add/relation?focus=aws%2Flambda&target=arn%3Aaws%3Alambda%3Aus-east-1%3A9057...

AWS Services Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia Rechercheresservieuse

Lambda > Add trigger

Add trigger

Trigger configuration

S3 aws storage

Bucket
Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.

Event type
Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

All object create events

Prefix - optional
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.
e.g. images/

Suffix - optional
Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.
e.g. jpg

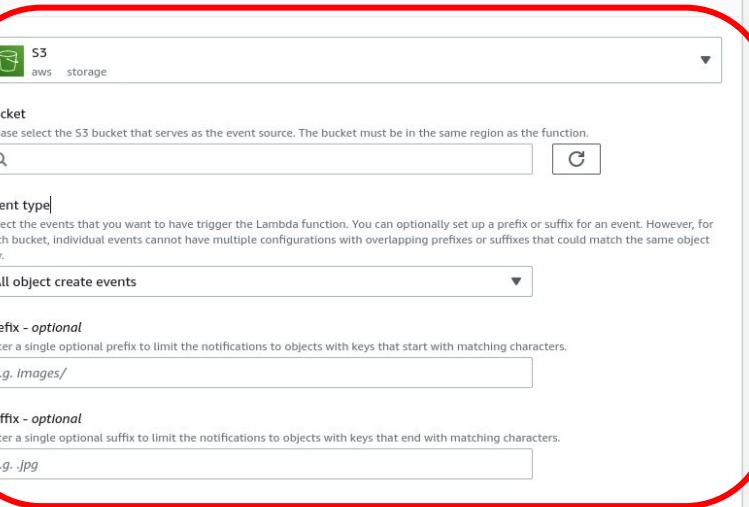
Recursive invocation
If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Lambda will add the necessary permissions for AWS S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

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Add trigger

Trigger configuration



Bucket

Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.

G

Event type|

Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

All object create events

Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.

e.g. *Images/*

Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.

e.g. .jpg

Recursive invocation

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

- I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Lambda will add the necessary permissions for AWS S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

Cancer

40

- Trigger your function.

← → ⌂ https://s3.console.aws.amazon.com/s3/buckets?region=us-east-1®ion=us-east-1

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Amazon S3 X We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback. Provide feedback

Buckets

Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3

Block Public Access settings for this account

▼ Storage Lens
Dashboards
AWS Organizations settings

Feature spotlight 3

AWS Marketplace for S3

Amazon S3 > Buckets

▶ Account snapshot View Storage Lens dashboard

Buckets (1) Info Buckets are containers for data stored in S3. [Learn more](#)

C Copy ARN Empty Delete Create bucket

Name	AWS Region	Access	Creation date
buckteabe	US East (N. Virginia) us-east-1	Objects can be public	September 19, 2022, 15:54:15 (UTC+02:00)

Find buckets by name < 1 > ⚙️

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Amazon S3



Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight 3

► AWS Marketplace for S3

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[Provide feedback](#)

Amazon S3 > Buckets > buckteabe

buckteabe [Info](#)

Objects Properties Permissions Metrics Management Access Points

Objects (0)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you need to explicitly grant them permissions. [Learn more](#)



[Copy S3 URI](#)

[Copy URL](#)

[Download](#)

[Open](#)

[Delete](#)

[Actions](#) ▾

[Create folder](#)

[Upload](#)



[Find objects by prefix](#)

◀ 1 ▶



[Name](#)



Type



Last modified



Size

Storage class



No objects

You don't have any objects in this bucket.

[Upload](#)

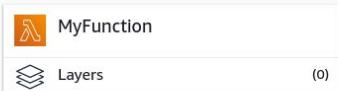
MyFunction

[Throttle](#)[Copy ARN](#)[Actions](#) ▾

✖

✓ The trigger buckteabe was successfully added to function MyFunction. The function is now receiving events from the trigger.

Function overview [Info](#)



Description

Last modified
2 hours ago

Function ARN

[arn:aws:lambda:us-east-1:905785452291:function:MyFunction](#)Function URL [Info](#)[Code](#)[Test](#)[Monitor](#)[Configuration](#)[Aliases](#)[Versions](#)

General configuration

Triggers

Permissions

Destinations

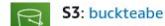
Function URL

Environment variables

Triggers (1)

 Find triggers[Fix errors](#)[Edit](#)[Delete](#)[Add trigger](#)

< 1 >



S3: buckteabe

arn:aws:s3:::buckteabe

► Details



Services

Search for services, features, blogs, docs, and more

[Alt+5]



https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/MyFunction?tab=monitoring

N. Virginia

Rechercher une service

Successfully updated the function MyFunction.

Click on the link to see
the logs

Code Test Monitor Configuration Aliases Versions

Metrics Logs Traces

View logs in CloudWatch

View X-Ray traces in ServiceLens

View Lambda Insights

View profiles in CodeGuru

CloudWatch Logs Insights Info

Lambda logs all requests handled by your function and automatically stores logs generated by your code through Amazon CloudWatch Logs. To validate your code, instrument it with custom logging statements. The following tables list the most recent and most expensive function invocations across all function activity. To view logs for a specific function version or alias, visit the **Monitor** section at that level.

1h 3h 12h 1d 3d 1w Custom Add to dashboard

Recent invocations

#	: Timestamp	: RequestID	: LogStream	: DurationInMS	: BilledDurationInMS	: MemorySetInMB	: MemoryUsedInMB
▶ 1	2022-09-19T15:23:10.680Z	9dd6cea8-f70a-4b42-88e4-f03b42daa4c4	2022/09/19/[\$LATEST]82d380686eed4cecb9de12f3dafdb96e	3.57	4.0	128	39
▶ 2	2022-09-19T15:22:11.554Z	9dd6cea8-f70a-4b42-88e4-f03b42daa4c4	2022/09/19/[\$LATEST]82d380686eed4cecb9de12f3dafdb96e	1.33	2.0	128	38
▶ 3	2022-09-19T14:46:14.184Z	f5764ea6-69ab-4bfe-ad34-69d40d946f90	2022/09/19/[\$LATEST]a4412f92c9b94de2852478e19ac37c60	1.32	2.0	128	38

Most expensive invocations in GB-seconds (memory assigned * billed duration)

#	: Timestamp	: RequestID	: LogStream	: BilledDurationInMS	: MemorySetInMB	: BilledDurationInGBSeconds
▶ 1	2022-09-19T15:23:10.680Z	9dd6cea8-f70a-4b42-88e4-f03b42daa4c4	2022/09/19/[\$LATEST]82d380686eed4cecb9de12f3dafdb96e	4.0	128	0.0005
▶ 2	2022-09-19T14:46:14.184Z	f5764ea6-69ab-4bfe-ad34-69d40d946f90	2022/09/19/[\$LATEST]a4412f92c9b94de2852478e19ac37c60	2.0	128	0.00025
▶ 3	2022-09-19T15:22:11.554Z	9dd6cea8-f70a-4b42-88e4-f03b42daa4c4	2022/09/19/[\$LATEST]82d380686eed4cecb9de12f3dafdb96e	2.0	128	0.00025

Function URLs

A function URL is a dedicated HTTP(S) endpoint for your function. When your function URL is configured, you can use it to invoke your function through a browser, curl, Postman, or any HTTP client. When you configure a function URL from the main function page, Lambda assigns the function URL to the **\$LATEST** unpublished version of your function. You cannot assign a function URL to any other function version, but you can assign a function URL to any function alias.

To add a function URL, choose the **Configuration** tab, then choose the **Function URL** tab in the left menu. To add a function URL to an alias, choose an alias from the **Aliases** tab, choose **Configuration**, and then choose **Function URL**.

Learn more

[Function URLs](#)