

# Creating VPC

New VPC Experience  
Tell us what you think

VPC Dashboard

EC2 Global View New

Filter by VPC:

Select a VPC

**VIRTUAL PRIVATE CLOUD**

Your VPCs (1) Info

Filter VPCs

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP options
-	vpc-0550d4d7aa1c7bac3	Available	172.31.0.0/16	-	dopt-01c

Select a VPC above

**SECURITY**

Network ACLs

Actions ▼

**Create VPC**

### Resources to create [Info](#)

Create only the VPC resource or create VPC, subnets, etc.

VPC only

VPC, subnets, etc.

### Name tag - *optional*

Creates a tag with a key of 'Name' and a value that you specify.

project-vpc

### IPv4 CIDR block [Info](#)

- IPv4 CIDR manual input
- IPAM-allocated IPv4 CIDR block

### IPv4 CIDR

20.20.0.0/16

### IPv6 CIDR block [Info](#)

- No IPv6 CIDR block
- IPAM-allocated IPv6 CIDR block
- Amazon-provided IPv6 CIDR block
- IPv6 CIDR owned by me

### Tenancy [Info](#)

Default



Create subnets in this VPC.

vpc-08a861f228356b58b (project-vpc) ▾

## Associated VPC CIDRs

IPv4 CIDRs

20.20.0.0/16

## Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

### Subnet 1 of 1

#### Subnet name

Create a tag with a key of 'Name' and a value that you specify.

publicsubnet1

The name can be up to 256 characters long.

#### Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (Ohio) / us-east-2a ▾

#### IPv4 CIDR block [Info](#)

🔍 20.20.1.0/24 X

#### ▼ Tags - optional

## Subnet 2 of 2

### Subnet name

Create a tag with a key of 'Name' and a value that you specify.

The name can be up to 256 characters long.

### Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

▼

### IPv4 CIDR block [Info](#)

X

### ▼ Tags - optional

#### Key

#### Value - optional

XXRemoveAdd new tag

You can add 49 more tags.

Remove

## Subnet 3 of 3

### Subnet name

Create a tag with a key of 'Name' and a value that you specify.

The name can be up to 256 characters long.

### Availability Zone [Info](#)

Choose the zone in which your subnet will reside, or let Amazon choose one for you.



### IPv4 CIDR block [Info](#)



### ▼ Tags - optional

#### Key

#### Value - optional

  RemoveAdd new tag

You can add 10 more tags

# Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

## Internet gateway settings

### Name tag

Creates a tag with a key of 'Name' and a value that you specify.

## 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.

### Key

### Value - optional

 X XRemoveAdd new tag

You can add 49 more tags.

CancelCreate internet gateway

## Attach to VPC (igw-055bf9a63c1b71625) Info

### VPC

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

#### Available VPCs

Attach the internet gateway to this VPC.

 X

▶ AWS Command Line Interface command

Cancel

Attach internet gateway

## NAT gateway settings

### Name - optional

Create a tag with a key of 'Name' and a value that you specify.

The name can be up to 256 characters long.

### Subnet

Select a subnet in which to create the NAT gateway.



### Connectivity type

Select a connectivity type for the NAT gateway.

 Public Private

### Elastic IP allocation ID [Info](#)

Assign an Elastic IP address to the NAT gateway.



### Tags

## Route table settings

### Name - *optional*

Create a tag with a key of 'Name' and a value that you specify.

### VPC

The VPC to use for this route table.

▼

## Tags

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.

### Key

 X

### Value - *optional*

 XRemoveAdd new tag

You can add 49 more tags.

CancelCreate route table

## Route table settings

### Name - *optional*

Create a tag with a key of 'Name' and a value that you specify.

### VPC

The VPC to use for this route table.

▼

## Tags

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.

### Key

 X

### Value - *optional*

 XRemoveAdd new tag

You can add 49 more tags.

CancelCreate route table

## Edit routes

Destination	Target	Status	Propagated
20.20.0.0/16	<input type="text" value="local"/> <span>X</span>	<input checked="" type="checkbox"/> Active	No
<input type="text" value="0.0.0.0"/> <span>X</span>	<input type="text" value="igw-055bf9a63c1b71625"/> <span>X</span>	-	No <span>Remove</span>
<span>Add route</span>			

Cancel

Preview

Save changes

## Edit subnet associations

Change which subnets are associated with this route table.

**Available subnets (2/3)**

Available subnets (2/3)					
<input type="text"/> Filter subnet associations					
-	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/>	publicsubnet2	subnet-08a7ed6842c3d19ec	20.20.2.0/24	-	Main (rtb-0920874e2fe00ecf8)
<input type="checkbox"/>	privatesubnet1	subnet-06303f063dab8eef0	20.20.3.0/24	-	Main (rtb-0920874e2fe00ecf8)
<input checked="" type="checkbox"/>	publicsubnet1	subnet-0df2cdd482e6a3dda	20.20.1.0/24	-	Main (rtb-0920874e2fe00ecf8)

**Selected subnets**

subnet-08a7ed6842c3d19ec / publicsubnet2 X    subnet-0df2cdd482e6a3dda / publicsubnet1 X

[Cancel](#) [Save associations](#)

## Edit routes

Destination	Target	Status	Propagated
20.20.0.0/16	<input type="text" value="local"/> <span>X</span>	<span>Active</span>	No
<input type="text" value="0.0.0.0"/> <span>X</span>	<input type="text" value="nat-0a2625cf57a1b8dc2"/> <span>X</span>	-	No <span>Remove</span>
<span>Add route</span>			<span>Cancel</span> <span>Preview</span> <span>Save changes</span>

## Edit subnet associations

Change which subnets are associated with this route table.

### Available subnets (1/3)

Available subnets (1/3)					
<input type="text"/> Filter subnet associations					
-	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input type="checkbox"/>	publicsubnet2	subnet-08a7ed6842c3d19ec	20.20.2.0/24	-	rtb-09db0c0123afd679f / public-route
<input checked="" type="checkbox"/>	privatesubnet1	subnet-06303f063dab8eef0	20.20.3.0/24	-	Main (rtb-0920874e2fe00ecf8)
<input type="checkbox"/>	publicsubnet1	subnet-0df2cdd482e6a3dda	20.20.1.0/24	-	rtb-09db0c0123afd679f / public-route

### Selected subnets

subnet-06303f063dab8eef0 / privatesubnet1 X

Cancel

Save associations

Security group name [Info](#)

project-sg

Name cannot be edited after creation.

Description [Info](#)

project-sg

VPC [Info](#)

vpc-08a861f228356b58b X

## Inbound rules [Info](#)

Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>	
All traffic	All	All	Anywh... ▾	<input type="text"/> 0.0.0.0/0 <span style="font-size: small;">X</span>	<span style="border: 1px solid #ccc; padding: 2px 10px;">Delete</span>
All traffic	All	All	Anywh... ▾	<input type="text"/> ::/0 <span style="font-size: small;">X</span>	<span style="border: 1px solid #ccc; padding: 2px 10px;">Delete</span>

Add rule

## Edit subnet settings Info

### Subnet

Subnet ID

subnet-0df2cdd482e6a3dda

Name

publicsubnet1

### Auto-assign IP settings Info

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

Enable auto-assign public IPv4 address Info

Enable auto-assign customer-owned IPv4 address Info

Option disabled because no customer owned pools found.

## Edit subnet settings Info

### Subnet

Subnet ID

subnet-08a7ed6842c3d19ec

Name

publicsubnet2

### Auto-assign IP settings Info

Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.

Enable auto-assign public IPv4 address Info

Enable auto-assign customer-owned IPv4 address Info

Option disabled because no customer owned pools found.

### Resource-based name (RBN) settings Info

Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.

Enable resource name DNS A record on launch Info

# Creating instance

1. Choose AMI    2. Choose Instance Type    **3. Configure Instance**    4. Add Storage    5. Add Tags    6. Configure Security Group    7. Review

## Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances i  Launch into Auto Scaling Group i

Purchasing option i  Request Spot instances

Network i  C Create new VPC

Subnet i  C Create new subnet  
250 IP Addresses available

Auto-assign Public IP i

Hostname type i

DNS Hostname i  Enable IP name IPv4 (A record) DNS requests  
 Enable resource-based IPv4 (A record) DNS requests  
 Enable resource-based IPv6 (AAAA record) DNS requests

Placement group i  Add instance to placement group

Capacity Reservation i

Domain join directory i  C Create new directory

[Cancel](#)

[Previous](#)

**Review and Launch**

[Next: Add Storage](#)

## AMI Details

[Edit AMI](#)

### Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-0fb653ca2d3203ac1

Free tier  
eligible

Ubuntu Server 20.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Root Device Type: ebs Virtualization type: hvm

## Instance Type

[Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

## Security Groups

[Edit security groups](#)

Security Group ID	Name	Description
sg-0c9ea8ded2b4338e8	project-sg	project-sg

### All selected security groups inbound rules

Type <i>(i)</i>	Protocol <i>(i)</i>	Port Range <i>(i)</i>	Source <i>(i)</i>	Description <i>(i)</i>
All traffic	All	All	0.0.0.0/0	

[Cancel](#)[Previous](#)[Launch](#)

## Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances (i)  Launch into Auto Scaling Group (i)

---

Purchasing option (i)  Request Spot instances

---

Network (i)  (i) C Create new VPC

Subnet (i)  (i) Create new subnet  
251 IP Addresses available

Auto-assign Public IP (i)

---

Hostname type (i)

DNS Hostname (i)  Enable IP name IPv4 (A record) DNS requests  
 Enable resource-based IPv4 (A record) DNS requests  
 Enable resource-based IPv6 (AAAA record) DNS requests

---

Placement group (i)  Add instance to placement group

Capacity Reservation (i)

---

Domain join directory (i)  (i) C Create new directory

---

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

New EC2 Experience X

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 New

Dedicated Hosts

Capacity Reservations

▼ Images

[AMIs](#) New

AMI Catalog

Instances (2) [Info](#)



Connect

Instance state ▾

Actions ▾

Launch instances ▾

< 1 >



Search

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	Application-se...	i-029cc1ecc31a3ae7f	<span>Running</span>	t2.micro	<span>Initializing</span>	No alarms	us-east-2a	-
<input type="checkbox"/>	Bastion-Host	i-0adfea9a62f4b7545	<span>Running</span>	t2.micro	<span>2/2 checks passed</span>	No alarms	us-east-2a	-

Select an instance



## Creating S3-Bucket

Amazon S3 > Buckets > Create bucket

### Create bucket Info

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

#### General configuration

Bucket name

add-emp-project

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

AWS Region

US East (Ohio) us-east-2



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 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.

 If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [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.

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

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

## Files and folders (1 Total, 187.0 B)

All files and folders in this table will be uploaded.

[Remove](#)

[Add files](#)

[Add folder](#)

*Find by name*

< 1 >

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	project.html	-	text/html	187.0 B

## Destination

Destination

[s3://add-emp-project](#)

### ► Destination details

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

## ▼ Permissions

Grant public access and access to other AWS accounts.

Grant basic read/write permissions to other AWS accounts. [Learn more](#)

 AWS recommends using S3 bucket policies or IAM policies for access control. [Learn more](#)

#### Access control list (ACL)

- Choose from predefined ACLs
- Specify individual ACL permissions

#### Predefined ACLs

- Private (recommended)

Only the object owner will have read and write access.

- Grant public-read access

Anyone in the world will be able to access the specified objects. The object owner will have read and write access. [Learn more](#)



#### Granting public-read access is not recommended

Anyone in the world will be able to access the specified objects. [Learn more](#)

I understand the risk of granting public-read access to the specified objects.

## ► Properties

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

Cancel

Upload

## Choose a database creation method [Info](#)

### Standard create

You set all of the configuration options, including ones for availability, security, backups, and maintenance.

### Easy create

Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

## Creating DB

### Engine options

#### Engine type [Info](#)

##### Amazon Aurora



##### MySQL



##### MariaDB



##### PostgreSQL



##### Oracle

**ORACLE®**

##### Microsoft SQL Server



## Templates

Choose a sample template to meet your use case.

### Production

Use defaults for high availability and fast, consistent performance.

### Dev/Test

This instance is intended for development use outside of a production environment.

### Free tier

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.

[Info](#)

## Availability and durability

### Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

#### Multi-AZ DB Cluster - new

Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

#### Multi-AZ DB instance (not supported for Multi-AZ DB cluster snapshot)

Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

#### Single DB instance (not supported for Multi-AZ DB cluster snapshot)

Creates a single DB instance with no standby DB instances.

### DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

### ▼ Credentials Settings

#### Master username [Info](#)

Type a login ID for the master user of your DB instance.

1 to 16 alphanumeric characters. First character must be a letter.

Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password.

#### Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @ (at sign).

#### Confirm password [Info](#)

## Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

### Enable storage autoscaling

Enabling this feature will allow the storage to increase once the specified threshold is exceeded.

## Virtual private cloud (VPC) [Info](#)

VPC that defines the virtual networking environment for this DB instance.

project-vpc (vpc-08a861f228356b58b)



Only VPCs with a corresponding DB subnet group are listed.

- ⓘ After a database is created, you can't change its VPC.

## Subnet group [Info](#)

DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

Create new DB Subnet Group



## Public access [Info](#)

Yes

Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

No

RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

## VPC security group

Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.

Choose existing

Choose existing VPC security groups

Create new

Create new VPC security group

## Existing VPC security groups

Choose VPC security groups



project-sg

Initial database name [Info](#)

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)



Option group [Info](#)



## Backup

Enable automated backups

Creates a point-in-time snapshot of your database

## Monitoring

Enable Enhanced monitoring

Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

## Log exports

Select the log types to publish to Amazon CloudWatch Logs

Audit log

Error log

General log

Slow query log

## IAM role

The following service-linked role is used for publishing logs to CloudWatch Logs.

## Maintenance

Auto minor version upgrade [Info](#)

**Enable auto minor version upgrade**

Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.

# Create table

## Table details Info

DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

### Table name

This will be used to identify your table.

Between 3 and 255 characters, containing only letters, numbers, underscores (\_), hyphens (-), and periods (.)

### Partition key

The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

1 to 255 characters and case sensitive.

### Sort key - *optional*

You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.

1 to 255 characters and case sensitive.

Get one of these domains. They are free!

anitha .tk	x
anitha .ml	• FREE USD 0. <sup>00</sup> <a href="#">Get it now!</a>
anitha .ga	• FREE USD 0. <sup>00</sup> <a href="#">Get it now!</a>
anitha .cf	x
anitha .gq	• FREE USD 0. <sup>00</sup> <a href="#">Get it now!</a>

Yes anitha.ga is available!

1 domain in cart

Checkout

anitha	• FREE	USD 0 <sup>00</sup>	<input checked="" type="checkbox"/> Selected	<input type="button" value=""/>
.ga				

Get one of these domains. They are free!

anitha	.tk	<input type="checkbox"/> Not available
anitha	.ml	<input checked="" type="checkbox"/> USD 0 <sup>00</sup> <input type="button" value="Select"/>

<https://my.freenom.com/cart.php?a=confdomains&language=english>

I already informed to you , I had a problem with my freenom account , That's why I didn't mention those pages , which related to freenom account.

## Review & Checkout

Description	Price
Domain Registration - anitha.ga 	\$0.00USD
Subtotal:	\$0.00USD
<b>Total Due Today:</b>	<b>\$0.00USD</b>



I have read and agree to the [Terms & Conditions](#)

[Complete Order](#)

This order form is provided in a secure environment and to help protect against fraud your current IP address (**106.195.68.201**) is being logged.

# Creating LoadBalancers

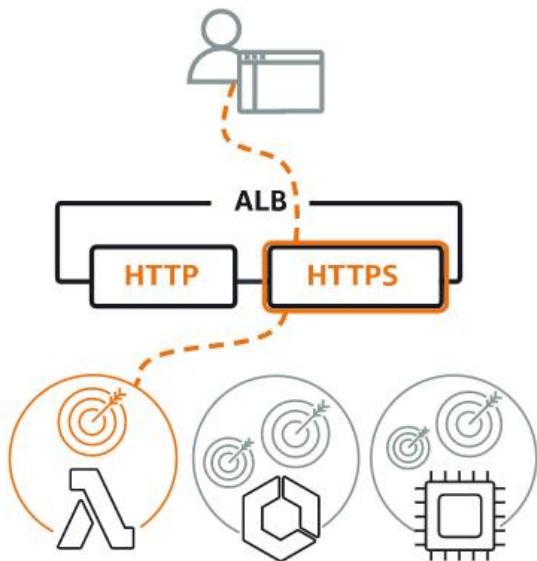
EC2 > Load balancers > Select load balancer type

## Select load balancer type

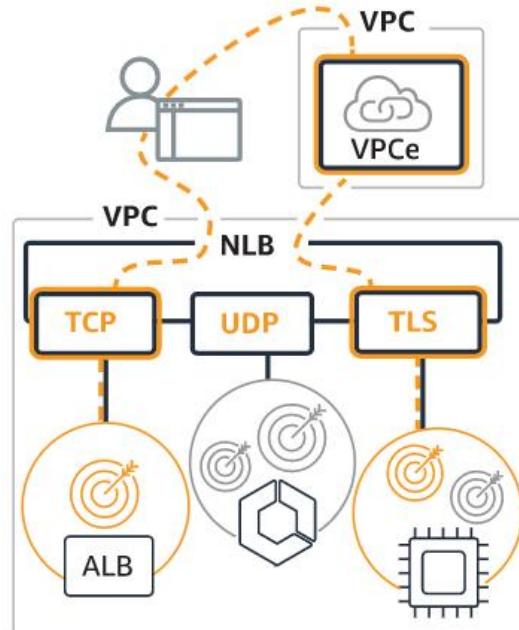
A complete feature-by-feature comparison along with detailed highlights is also available. [Learn more](#)

### Load balancer types

#### Application Load Balancer [Info](#)



#### Network Load Balancer [Info](#)



#### Gateway Load Balancer [Info](#)



## Basic configuration

### Load balancer name

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

project-alb

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

### Scheme Info

Scheme cannot 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.

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 [\[2\]](#).

project-vpc

vpc-04e69ce618c423eb2

IPv4: 20.20.0.0/16

C

### Mappings [Info](#)

Select at least one Availability Zone and one subnet for each zone. We recommend selecting at least two Availability Zones. The load balancer will route traffic only to targets in the selected Availability Zones. Zones that are not supported by the load balancer or VPC cannot be selected. Subnets can be added, but not removed, once a load balancer is created.

us-east-2a

#### Subnet

subnet-0142f2fc03afa1dad

publicsubnet1 ▾

#### IPv4 settings

Assigned by AWS

us-east-2b

#### Subnet

subnet-0ce59a82bb8f0ac49

publicsubnet2 ▾

#### IPv4 settings

Assigned by AWS

Step 1  
Specify group details

Step 2  
Register targets

## Specify group details

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

### Basic configuration

Settings in this section 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.

- 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

project-tg

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

#### Protocol      Port

HTTP ▾ : 80

#### VPC

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

project-vpc

vpc-04e69ce618c423eb2

IPv4: 20.20.0.0/16

#### 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.

Step 1  
Specify group detailsStep 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 (1/2)

Filter resources by property or value

< 1 >

	Instance ID	Name	State	Security groups	Zone	Subnet ID
<input type="checkbox"/>	i-0557ed468740bc04e	Bastion-Host	running	project-sg	us-east-2a	subnet-0142f2fc03afa1dad
<input checked="" type="checkbox"/>	i-0c2488a8e9a167bb5	Applicationserver	running	project-sg	us-east-2a	subnet-08e637b3d737ab4ca

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

## Security groups [Info](#)

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

### Security groups

Select security groups



Create new security group [Create](#)

project-sg sg-0b9e622dcce158da4 [X](#)

VPC: vpc-04e69ce618c423eb2

## Listeners and routing [Info](#)

A listener is a process that checks for connection requests, using the protocol and port you configure. Traffic received by the listener is then routed per your specification. You can specify multiple rules and multiple certificates per listener after the load balancer is created.

### ▼ Listener HTTP:80

[Remove](#)

Protocol

Port

Default action [Info](#)

HTTP [▼](#)

: 80

1-65535

Forward to

project-tg

HTTP [▼](#)



Target type: Instance, IPv4

[Create target group](#) [Create](#)

# Connecting the server

New EC2 Experience  Tell us what you think [X](#)

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances [New](#)

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances [New](#)

Dedicated Hosts

Capacity Reservations

Images

AMIs [New](#)

AMI Catalog

Elastic Block Store

Volumes [New](#)

Instances (1/2) [Info](#)

C Connect Instance state Actions Launch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input checked="" type="checkbox"/> Bastion-Host	i-0557ed468740bc04e	<span>Running</span>	t2.micro	<span>2/2 checks passed</span>	No alarms <a href="#">+</a>	us-east-2a	-
<input type="checkbox"/> Applicationser...	i-0c2488a8e9a167bb5	<span>Running</span>	t2.micro	<span>2/2 checks passed</span>	No alarms <a href="#">+</a>	us-east-2a	-

Instance: i-0557ed468740bc04e (Bastion-Host)

Select an instance above

Details Security Networking Storage Status checks Monitoring Tags

Instance summary [Info](#)

Public IPv4 address copied

Instance ID: i-0557ed468740bc04e (Bastion-Host) [Open address](#)

IPv6 address: -

Hostname type: -

Private IPv4 addresses: 20.20.1.114

Instance state: Running

Public IPv4 DNS: -

Private IP DNS name (IPv4 only): -

Answer private resource DNS name: -

```
[*] login as: ubuntu
[*] Authenticating with public key "imported-openssh-key"
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1022-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

System information as of Thu Mar 24 15:32:52 UTC 2022

System load: 0.14           Processes:          100
Usage of /: 18.2% of 7.69GB Users logged in:      0
Memory usage: 20%           IPv4 address for eth0: 20.20.1.114
Swap usage:  0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-20-20-1-114:~$ sudo su
root@ip-20-20-1-114:/home/ubuntu# apt-get update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1674 kB]
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [316 kB]
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [14.9 kB]
```



Status: File transfer successful, transferred 1,700 bytes in 1 second  
 Status: Retrieving directory listing of "/home/ubuntu"..."  
 Status: Listing directory /home/ubuntu  
 Status: Directory listing of "/home/ubuntu" successful

Local site: C:\Users\Aravind\Downloads\

- + Downloads
- + Favorites
- + IntelGraphicsProfiles
- + Links
- + Local Settings
- + Music
- + My Documents
- + NetHood

Filename	Filesize	Filetype	Last modified
FileZilla_3.58.0_win6...	12,225,1...	Application	03/24/22 13:49...
fri.py	851	Python Source ...	02/07/22 08:04...
Git assignment _1....	195,108	Microsoft Wor...	03/11/22 09:49...
Grade 07th-08th Ke...	13,738	Microsoft Wor...	02/26/22 14:31...
ifelse.py	992	Python Source ...	02/07/22 08:20...
Jarvis.jpg	200,405	JPG File	01/07/22 19:42...
Leverice_1.0.3.exe	100,363,...	Application	01/25/22 08:14...
new_user_credential...	555	Microsoft Exce...	02/23/22 23:20...
ohio.pem	1,700	PEM File	02/24/22 14:34...
ohio.ppk	1,462	PuTTY Private ...	03/11/22 10:00...
pan.jpg	96,623	JPG File	02/07/22 19:30...

Selected 1 file. Total size: 1,700 bytes

Remote site: /home/ubuntu

- + ? /
- + ? home
  - + ubuntu

Filename	Filesize	Filetype	Last modifi...	Permissi...	Owner/Gr...
..					
.cache		File folder	03/25/22 0...	drwx-----	ubuntu u...
.ssh		File folder	03/25/22 0...	drwx-----	ubuntu u...
.bash_logout	220	Bash Logout Source File	-rw-r--r--	ubuntu u...	
.bashrc	3,771	Bash RC ...	02/25/20 1...	-rw-r--r--	ubuntu u...
.profile	807	Profile S...	02/25/20 1...	-rw-r--r--	ubuntu u...
.sudo_as_admin...	0	SUDO_A...	03/25/22 0...	-rw-r--r--	ubuntu u...
ohio.pem	1,700	PEM File	03/25/22 0...	-rw-rw-r--	ubuntu u...

5 files and 2 directories. Tot



Transfers finished

All files have been successfully transferred

```
Reading package lists... Done
root@ip-20-20-1-210:/home/ubuntu# ls
root@ip-20-20-1-210:/home/ubuntu# ls
ohio.pem
root@ip-20-20-1-210:/home/ubuntu# chmod 400 ohio.pem
root@ip-20-20-1-210:/home/ubuntu# ssh -i ohio.pem ubuntu@20.20.3.193
The authenticity of host '20.20.3.193 (20.20.3.193)' can't be established.
ECDSA key fingerprint is SHA256:gaBTwtiIRZm6yhr1XB8YLceZqcp45xSGm9ZB9eq7Sw0.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '20.20.3.193' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1022-aws x86_64)
```

- \* Documentation: <https://help.ubuntu.com>
- \* Management: <https://landscape.canonical.com>
- \* Support: <https://ubuntu.com/advantage>

System information as of Fri Mar 25 01:54:55 UTC 2022

System load: 0.0	Processes: 99
Usage of /: 18.2% of 7.69GB	Users logged in: 0
Memory usage: 21%	IPv4 address for eth0: 20.20.3.193
Swap usage: 0%	

1 update can be applied immediately.

To see these additional updates run: apt list --upgradable

```
root@ip-20-20-3-193:/home/ubuntu# apt-get install mysql-client
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  mysql-client-8.0 mysql-client-core-8.0 mysql-common
The following NEW packages will be installed:
  mysql-client mysql-client-8.0 mysql-client-core-8.0 mysql-common
0 upgraded, 4 newly installed, 0 to remove and 91 not upgraded.
Need to get 4468 kB of archives.
After this operation, 67.1 MB of additional disk space will be used.
Do you want to continue? [Y/n] 
```

## Amazon RDS

X

- Dashboard
- Databases
- Query Editor
- Performance insights
- Snapshots
- Automated backups
- Reserved instances
- Proxies

- Subnet groups
- Parameter groups
- Option groups
- Custom engine versions

- Events
- Event subscriptions

- Recommendations 0
- Certificate update

DB identifier	CPU	Status	Class
databaseproject	<div style="width: 7.59%;">7.59%</div>	<span>Available</span>	db.t2.micro
Role	Current activity	Engine	Region & AZ
Instance	<div style="width: 0%;">0 Connections</div>	MySQL Community	us-east-2a

### Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Tags

### Connectivity & security

#### Endpoint & port

##### Endpoint

databaseproject.coilsf3jkutn.us-east-2.rds.amazonaws.com

##### Port

3306

#### Networking

##### Availability Zone

us-east-2a

##### VPC

[project-vpc \(vpc-08c863807636ae35c\)](#)

##### Subnet group

default-vpc-08c863807636ae35c

##### Subnets

[subnet-051d5312600cb790e](#)

[subnet-0b31d3b498957910c](#)

[subnet-0056bf25cc68a9c21](#)

#### Security

##### VPC security groups

[project-sg \(sg-033ad041742557b3c\)](#)

Active

##### Publicly accessible

No

##### Certificate authority

rds-ca-2019

##### Certificate authority date

August 22, 2024, 10:38 (UTC±10:38)

```
root@ip-20-20-3-193:/home/ubuntu# mysql -h databaseproject.coilsf3jkutn.us-east-2.rds.amazonaws.com -u admin -padmin1234
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.27 Source distribution

Copyright (c) 2000, 2022, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> █
```

```
mysql> CREATE TABLE employee (empid VARCHAR (20), first_name VARCHAR (20), last_
Query OK, 0 rows affected (0.02 sec)RCHAR (20), location VARCHAR (20));
```

```
mysql> show tables;
```

Tables_in_project
employee

```
+-----+
| Tables_in_project |
+-----+
| employee          |
+-----+
1 row in set (0.00 sec)
```

```
mysql> describe employee;
```

Field	Type	Null	Key	Default	Extra
empid	varchar(20)	YES		NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
primary_skills	varchar(20)	YES		NULL	
location	varchar(20)	YES		NULL	

```
+-----+
| Field      | Type       | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| empid      | varchar(20) | YES  |     | NULL    |       |
| first_name | varchar(20) | YES  |     | NULL    |       |
| last_name  | varchar(20) | YES  |     | NULL    |       |
| primary_skills | varchar(20) | YES  |     | NULL    |       |
| location   | varchar(20) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> exit
```

```
Bye
```

```
root@ip-20-20-3-193:/home/ubuntu# 
```

## Training-Demo / aws-code-main

Public

Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

main ▾

1 branch

0 tags

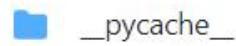
Go to file

Add file ▾

Code ▾

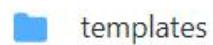


Training-Demo Update README.md



\_\_pycache\_\_

Add files via upload



templates

Add files via upload



EmpApp.py

Update EmpApp.py



README.md

Update README.md



config.py

Update config.py

Clone

HTTPS SSH GitHub CLI

<https://github.com/Training-Demo/aws-code>



Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP



README.md

# aws-code

## For Linux use:

```
root@ip-20-20-3-193:/home/ubuntu# apt-get install git -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version (1:2.25.1-1ubuntu3.2).
0 upgraded, 0 newly installed, 0 to remove and 91 not upgraded.
root@ip-20-20-3-193:/home/ubuntu# █
```

GNU nano 4.8

config.py

```
customhost = "Endpointdatabaseproject.coilsf3jkutn.us-east-2.rds.amazonaws.com"
customuser = "admin"
custompass = "admin1234"
customdb = "project"
custombucket = "add-emp-project"
customregion = "us-east-1"
```

----->For python and related frameworks

```
sudo apt-get install python3 -y
sudo apt-get install python3-flask -y
sudo apt-get install python3-pymysql -y
sudo apt-get install python3-boto3 -y
```

Step 1

## Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

# Select trusted entity

## Trusted entity type

### AWS service

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

### AWS account

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

### Web identity

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

### SAML 2.0 federation

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

### Custom trust policy

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

## Use case

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

### Common use cases

#### EC2

Allows EC2 instances to call AWS services on your behalf.

#### Lambda

Allows Lambda functions to call AWS services on your behalf.

### Use cases for other AWS services:

Step 1  
Select trusted entity

Step 2  
Add permissions

Step 3  
**Name, review, and create**

## Name, review, and create

### Role details

#### Role name

Enter a meaningful name to identify this role.

projrct-role

Maximum 128 characters. Use alphanumeric and '+=\_,@-' characters.

#### Description

Add a short explanation for this policy.

Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and '+=\_,@-' characters.

### Step 1: Select trusted entities

Edit

```
1: {
2:     "Version": "2012-10-17",
3:     "Statement": [
4:         {
5:             "Effect": "Allow",
6:             "Action": [
7:                 "sts:AssumeRole"
8:             ],
9:             "Principal": {
10:                 "Service": [
11:                     "ec2.amazonaws.com"
12:                 ]
13:             }
14:         }
15:     ]
16: }
```

## Modify IAM role Info

Attach an IAM role to your instance.

Instance ID

i-0f53d0ba8abf08edd (Application-server)

IAM role

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

projrct-role



Create new IAM role

Cancel

Save

```
mysql> show database;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version
for the right syntax to use near 'database' at line 1
mysql> use project;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_project |
+-----+
| employee          |
+-----+
1 row in set (0.01 sec)

mysql> select * from employee;
Empty set (0.00 sec)

mysql> █
```

## 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.

project.html

### Error document - *optional*

This is returned when an error occurs.

error.html

## Static website hosting

Edit

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

Static website hosting

Enabled

Hosting type

Bucket hosting

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)



Bucket website endpoint

e.us-east-2.amazonaws.com

copied

```
<!DOCTYPE html>
<html>
<head>
    <title>Add Employee Information</title>
</head>
<center>
    <font color="black" size="4" style="font-family: avenir">
        <h1 style="color: DodgerBlue">Employee Database</h1>
    </font>
    <body bgcolor="lightgrey">
        <form action="/addemp" autocomplete="on" method = "POST" enctype="multipart/form-data">
            <button type="submit" formaction="/getemp" style="background: grey; height: 45px; width: 200px; color:white; font:oblique;">GET EMPLOYEE INFORMATION</button>
            Employee ID:<br> <input style="height:25px;font-size:14pt; color:grey;" type="number" name="emp_id" autofocus size="40"><br><br>
            First Name:<br> <input style="height:25px;font-size:14pt;color:grey;" type="text" name="first_name" ><br><br>
            Last Name:<br> <input style="height:25px;font-size:14pt;color:grey;" type="text" name="last_name"><br><br>
            Primary Skills:<br> <input style="height:25px;font-size:14pt;color:grey;" type="text" name="pri_skill"><br><br>
            Location:<br> <input style="height:25px;font-size:14pt;color:grey;" type="text" name="location"><br><br>
            Image: <input type="file" name="emp_image_file" style="height:25px;font-size:14pt;color:grey;"> <br><br>
            <button type="submit" style="background: grey; height: 45px; width: 200px; color: white; size: 5; font:oblique;">UPDATE DATABASE</button>
        </form>
        <a href="/databaseproject.coilsf3jkutn.us-east-2.rds.amazonaws.com">About Us</a>
    </body>[]
</center>
</html>
```

```
root@ip-20-20-1-210:/home/ubuntu# ls
aws-code-main  ohio.pem
root@ip-20-20-1-210:/home/ubuntu# cd aws-code-main
root@ip-20-20-1-210:/home/ubuntu/aws-code-main# ls
EmpApp.py  README.md  __pycache__  config.py  templates
root@ip-20-20-1-210:/home/ubuntu/aws-code-main# cd templates
root@ip-20-20-1-210:/home/ubuntu/aws-code-main/templates# ls
AddEmp.html  AddEmpOutput.html  GetEmp.html  GetEmpOutput.html  _DS_Store
root@ip-20-20-1-210:/home/ubuntu/aws-code-main/templates# nano AddEmp.html
root@ip-20-20-1-210:/home/ubuntu/aws-code-main/templates# █
```

# Amazon Simple Notification Service

## Pub/sub messaging for microservices and serverless applications.

Amazon SNS is a highly available, durable, secure, fully managed pub/sub messaging service that enables you to decouple microservices, distributed systems, and event-driven serverless applications. Amazon SNS provides topics for high-throughput, push-based, many-to-many messaging.

## Benefits and features

**Reliably deliver messages with durability**

Amazon SNS uses cross availability zone message storage to provide high

**Automatically scale your workload**

Amazon SNS leverages the proven AWS cloud to dynamically scale with your

### Create topic

#### Topic name

A topic is a message channel. When you publish a message to a topic, it fans out the message to all subscribed endpoints.

sns-project

**Next step**

[Start with an overview](#)

### Pricing

Amazon SNS has no upfront costs. You pay based on the number of messages you publish, the number of messages you deliver, and any additional API calls for managing topics and subscriptions. Delivery pricing varies by endpoint type.

## ▼ Access policy - optional

This policy defines who can access your topic. By default, only the topic owner can publish or subscribe to the topic. [Info](#)

Choose method

Basic

Use simple criteria to define a basic access policy

Advanced

Use a JSON object to define an advanced access policy.

Define who can publish messages to the topic

Only the topic owner

Only the owner of the topic can publish to the topic

Everyone

Anybody can publish

Only the specified AWS accounts

Only the specified AWS account IDs can publish to the topic

Define who can subscribe to this topic

Only the topic owner

Only the owner of the topic can subscribe to the topic

Everyone

Any AWS account can subscribe to the topic

Only the specified AWS accounts

Only the specified AWS account IDs can subscribe to the topic

Only requesters with certain endpoints

JSON preview

```
{  
  "Version": "2008-10-17",  
  "Id": "__default_policy_ID",  
  "Statement": [  
    {  
      "Sid": "__default_statement_ID",  
      "Effect": "Allow",  
      "Principal": {  
        "AWS": "*"  
      },  
      "Action": [  
        "SNS:Publish",  
        "SNS:RemovePermission",  
        "SNS:SetTopicAttributes",  
        "SNS:DeleteTopic",  
        "SNS>ListSubscriptionsByTopic",  
        "SNS:ListTopics"  
      ]  
    }  
  ]  
}
```

Topic ARN

arn:aws:sns:us-east-2:951490220303:sns-project X

Protocol

The type of endpoint to subscribe

Email



Endpoint

An email address that can receive notifications from Amazon SNS.

mailto:anithapoluru@gmail.com

i After your subscription is created, you must confirm it. [Info](#)

#### ► Subscription filter policy - *optional*

This policy filters the messages that a subscriber receives. [Info](#)

#### ► Redrive policy (dead-letter queue) - *optional*

Send undeliverable messages to a dead-letter queue. [Info](#)

Cancel

**Create subscription**



Search mail



## Inbox

Starred

Snoozed

Sent

Drafts

More

## Meet

New meeting

Join a meeting

## Hangouts



No recent chats  
Start a new one



1 of 289 < >

## AWS Notification - Subscription Confirmation

Inbox x



AWS Notifications <no-reply@sns.amazonaws.com>

to me ▾

8:39 AM (0 minutes ago)



You have chosen to subscribe to the topic:

**arn:aws:sns:us-east-2:951490220303:sns-project**

To confirm this subscription, click or visit the link below (If this was in error no action is necessary):

[Confirm subscription](#)

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to [sns-opt-out](#)

Reply

Forward



## Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:

arn:aws:sns:us-east-2:951490220303:sns-project:7132c20f-5879-4122-b8e7-d4271d1a1779

If it was not your intention to subscribe, [click here to unsubscribe](#).

## Create event notification Info

To enable notifications, you must first add a notification configuration that identifies the events you want Amazon S3 to publish and the destinations where you want Amazon S3 to send the notifications.

### General configuration

Event name

Event name can contain up to 255 characters.

*Prefix - optional*

Limit the notifications to objects with key starting with specified characters.

*Suffix - optional*

Limit the notifications to objects with key ending with specified characters.

## Object creation

- All object create events  
s3:ObjectCreated:\*

- Put  
s3:ObjectCreated:Put
- Post  
s3:ObjectCreated:Post
- Copy  
s3:ObjectCreated:Copy
- Multipart upload completed  
s3:ObjectCreated:CompleteMultipartUpload

## Object removal

- All object removal events  
s3:ObjectRemoved:\*

- Permanently deleted  
s3:ObjectRemoved:Delete
- Delete marker created  
s3:ObjectRemoved:DeleteMarkerCreated

S3:ObjectRestore:Delete

## Object ACL

- Object ACL events  
s3:ObjectAcl:Put

## Object tagging

- All object tagging events  
s3:ObjectTagging:\*
- Object tags added  
s3:ObjectTagging:Put
- Object tags deleted  
s3:ObjectTagging:Delete

## Reduced Redundancy Storage

- Reduced Redundancy Storage (RRS) object  
lost events

## Destination

-  Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. [Learn more](#) 

### Destination

Choose a destination to publish the event. [Learn more](#) 

**Lambda function**

Run a Lambda function script based on S3 events.

**SNS topic**

Send notifications to email, SMS, or an HTTP endpoint.

**SQS queue**

Send notifications to an SQS queue to be read by a server.

### Specify SNS topic

**Choose from your SNS topics**

**Enter SNS topic ARN**

### SNS topic

sns-project

Cancel

Save changes

## Delete objects Info

⚠ Deleting the specified objects can't be undone.

[Learn more](#) 

### Specified objects

 *Find objects by name*

< 1 >

Name	Type	Last modified	Size
 <a href="#">project.html</a>	html	March 25, 2022, 07:15:14 (UTC+05:30)	187.0 B

### Permanently delete objects?

To confirm deletion, type *permanently delete* in the text input field.

Cancel

Delete objects

Here I deleted my html document , and I got an mail from Amazon .

## Amazon S3 Notification

Inbox ×



AWS Notifications <no-reply@sns.amazonaws.com>

to me ▾

8:43 AM (0 minutes ago)



```
{"Service":"Amazon S3","Event":"s3:TestEvent","Time":"2022-03-25T03:13:21.938Z","Bucket":"add-emp-project","RequestId":"2SR3P43E075DDFDS","HostId":"9BYovBz4ufsIVnEApwyJ  
JZWmzDHm7Ya6GY7+yVjex20Oaqr/LDJl9aOhgbFWG+guqx3k7s7/Azk="}
```

--  
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

<https://sns.us-east-2.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-2:951490220303:sns-project:7132c20f-5879-4122-b8e7-d4271d1a1779&Endpoint=mailtoanithapoluru@gmail.com>

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>

AWS Notifications <no-reply@sns.amazonaws.com>

to me ▾

8:44 AM (0 minutes ago)



```
{"Records":[{"eventVersion":"2.1","eventSource":"aws:s3","awsRegion":"us-east-2","eventTime":"2022-03-25T03:14:10.334Z","eventName":"ObjectRemoved:DeleteMarkerCreated","userIdentity":{"principalId":"A226TWVZ7021QY"},"requestParameters":{"sourceIPAddress":"123.201.163.100"}, "responseElements":{"x-amz-request-id":"PEKZ5XFT8JDPX25Z","x-amz-id-2": "UBsRi6/IaOOd4OxphN16+Xpn+gW39hWh3bMFfcwhL2U/14ltbpDThGIYgjcBIGQ48I4bQtL3hwFGQCvkWuMCNDhiMsjhX6zi"}, "s3":{"s3SchemaVersion":"1.0","configurationId":"objectupload","bucket":{"name":"add-emp-project","ownerIdentity":{"principalId":"A226TWVZ7021QY"}}, "arn":"arn:aws:s3:::add-emp-project"}, "object":{"key":"project.html","eTag":"d41d8cd98f00b204e9800998ecf8427e","sequencer":"00623D3382526DEEF0"}}]}}}
```

...

Reply

Forward

# Employee Database

GET EMPLOYEE  
INFORMATION

Employee ID:

First Name:

Last Name:

Primary Skills:

Location:

Image:  Choose File | No file chosen

UPDATE DATABASE

# **SAVE SUCCESSFUL**

**Following Employee has been added to the database**

**Demo Demo**

[GO BACK](#)