

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

None found

You do not have any running instances in this region.

First time using EC2? Check out the [Getting Started Guide](#).

Click the Launch Instance button to start your own server.

Launch Instance

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Amazon Linux

Free tier eligible

Amazon Linux AMI 2017.03.1 (HVM), SSD Volume Type - ami-4fffc834

Select

64-bit

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root device type: ebs

Virtualization type: hvm

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes

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 lower prices, or request Reserved Instances for a lower price over a long-term commitment.

Number of instances

1

Launch into Auto Scaling Group

Purchasing option

☐ Request Spot instances

Network

vpc-fecce287 (default)

Create new VPC

Subnet

No preference (default subnet in any Availability Zone)

Create new subnet

Auto-assign Public IP

Use subnet setting (Enable)

IAM role

None

Create new IAM role

Shutdown behavior

Stop

Enable termination protection

☐ Protect against accidental termination

Monitoring

☐ Enable CloudWatch detailed monitoring

Additional charges apply.

Tenancy

Shared - Run a shared hardware instance

Additional charges will apply for dedicated tenancy.

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-083018866ac6b06eb	8	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.

A copy of a tag can be applied to volumes, instances or both.

Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)	Instances ⓘ	Volumes ⓘ
Name	EC2-SERVER	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☐ Create a new security group
☒ Select an existing security group

Security Group ID	Name	Description	Actions
<input type="checkbox"/> sg-6acca01a	default	default VPC security group	Copy to new
<input checked="" type="checkbox"/> sg-9edfb3ee	WEB-SERVER-SG	WEB-SERVER-SG	Copy to new

Warning
 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.

Inbound rules for sg-9edfb3ee (Selected security groups: sg-9edfb3ee)

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
HTTP	TCP	80	0.0.0.0/0
HTTP	TCP	80	:::0
SSH	TCP	22	115.249.130.47/32

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

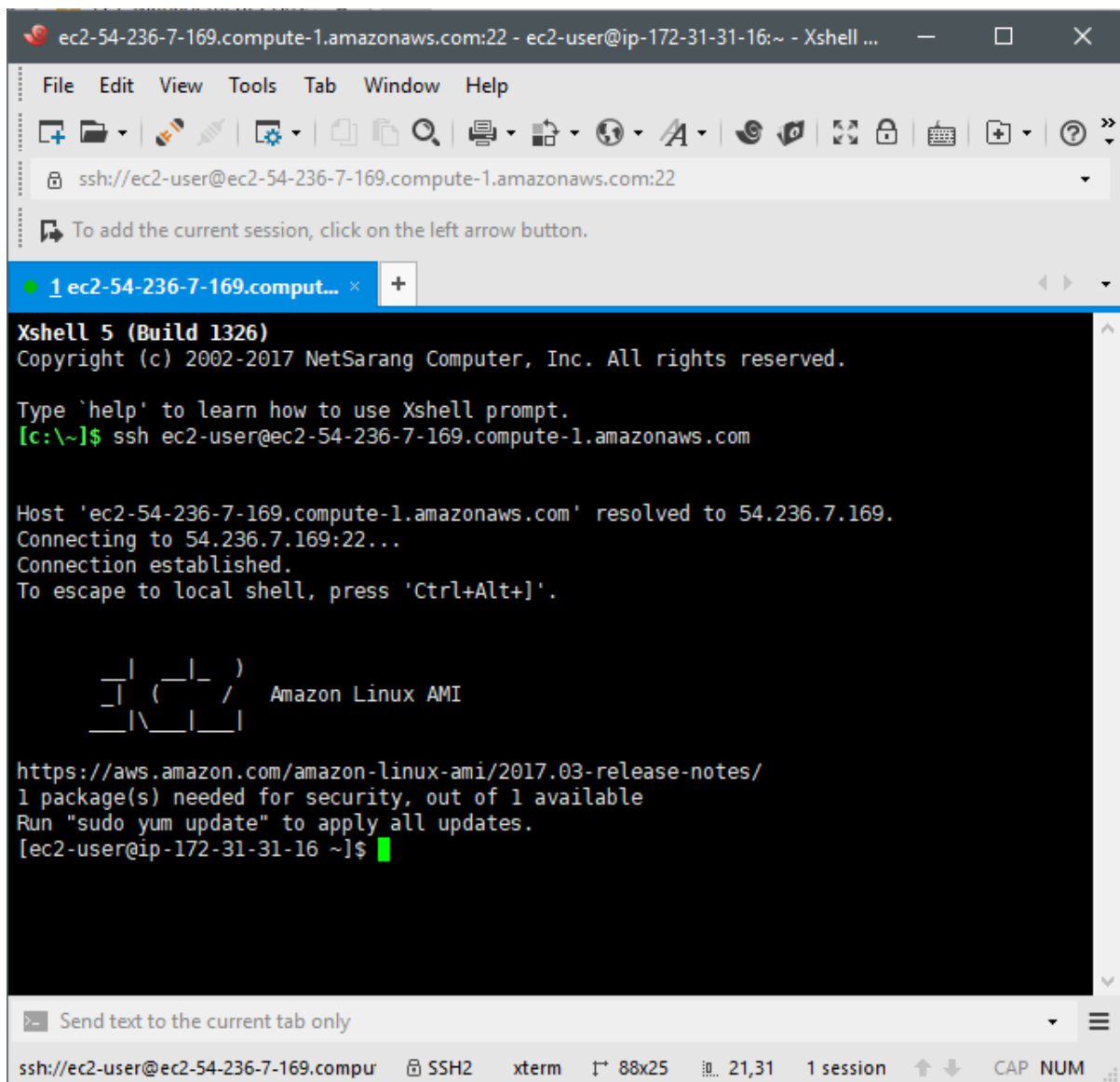
Note: The selected key pair will be added to the set of keys authorized for this instance. [Learn more](#) about [removing existing key pairs from a public AMI](#).

Select a key pair

☒ I acknowledge that I have access to the selected private key file (srinu.pem), and that without this file, I won't be able to log into my instance.

[Cancel](#)

[Launch Instances](#)



ec2-54-236-7-169.compute-1.amazonaws.com:22 - root@ip-172-31-31-16:/var/www/ht...

File Edit View Tools Tab Window Help

ssh://ec2-user@ec2-54-236-7-169.compute-1.amazonaws.com:22

To add the current session, click on the left arrow button.

1 ec2-54-236-7-169.comput... x +

GNU nano 2.5.3 File: index.html Modified

```
Address line one:
<input type="text" name="address1" > <br>
Address line two:
<input type="text" name="address2"> <br>
Town/City:
<input type="text" name="town/city"> <br>
Zip /Post Code:
<input type="text" name="pincode"> <br>
</fieldset>
<div>
<input type="submit" value="sibmit">
</div>
</form>

</body>
</html>
```

Get Help Write Out Where Is Cut Text Justify Cur Pos
Exit Read File Replace Uncut Text To Spell Go To Line

Send text to the current tab only

ssh://ec2-user@ec2-54-236-7-169.compu SSH2 xterm 88x25 18,8 1 session CAP NUM

Student Signup Form

Personal Information

First Name:

Last name:

Gender:

female ▾

Daate Of Birth:

dd-mm-yyyy

Mother's Education Qualification:

Father's Education Qualification:

Email-address:

Password:

Confirm password:

Phone number:

Address Details

Address line one:

Address line two:

Town/City:

Zip /Post Code:

submit

RDS Dashboard

Instances

Clusters

Reserved Instances

Snapshots

Parameter Groups

External Licenses

Option Groups

Subnet Groups

Events

Event Subscriptions

Notifications



Amazon Relational Database Service







Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale relational databases in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database administration tasks, freeing you up to focus on your applications and business.

[Get Started Now](#)

[Getting Started Guide](#)

Select Engine

To get started, choose a DB Engine below and click Select.

	MySQL MySQL Community Edition	Select
	MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.	
	<ul style="list-style-type: none">• Supports database size up to 6 TB.• Instances offer up to 32 vCPUs and 244 GiB Memory.• Supports automated backup and point-in-time recovery.• Supports cross-region read replicas.• Free tier eligible	
		
	Amazon Aurora MySQL-compatible edition	Select
	Enterprise-class database, starting at <\$1/day.	
	<ul style="list-style-type: none">• Up to 5 times the throughput of MySQL.• Up to 64TB of auto-scaling SSD storage.• 6-way replication across three Availability Zones.• Up to 15 Read Replicas with sub-10ms replica lag.• Automatic monitoring and failover in less than 30 seconds.	

Do you plan to use this database for production purposes?

Production

- ☐ MySQL
- Use [Multi-AZ Deployment](#) and [Provisioned IOPS Storage](#) as defaults for high availability and fast, consistent performance.

Dev/Test

- ☒ MySQL
- This instance is intended for use outside of production or under the [RDS Free Usage Tier](#).

Billing is based on [RDS pricing](#).

[Cancel](#)[Previous](#)[Next Step](#)

☒ Only show options that are eligible for RDS Free Tier

Instance Specifications

DB Engine mysql

License Model

DB Engine Version



Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

DB Instance Class

Multi-AZ Deployment

Storage Type

Allocated Storage* GB

Settings

DB Instance Identifier*

Master Username*

Master Password*

Confirm Password*

Retype the value you specified for Master Password.

* Required

[Cancel](#)

[Previous](#)

[Next Step](#)

Configure Advanced Settings

Network & Security



VPC*	Default VPC (vpc-fecce287) ▼
Subnet Group	default ▼
Publicly Accessible	No ▼
Availability Zone	No Preference ▼
VPC Security Group(s)	<div>Create new Security Group WEB-SERVER-SG (VPC) default (VPC)</div>

Database Options

Database Name	Testing-ec2-RDS
---------------	-----------------

Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port	3306
DB Parameter Group	default.mysql5.6 ▼
Option Group	default.mysql-5-6 ▼
Copy Tags To Snapshots	<input type="checkbox"/>
Enable IAM DB Authentication	No Preference ▼
Enable Encryption	No ▼

Select the DB option group that enables any optional functionality you want the DB instance to support, such as Oracle or SQL Server data encryption, or MySQL 5.6 memcached support. [Learn More](#).

Backup

Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port	<input type="text" value="3306"/>
DB Parameter Group	<input type="text" value="default.mysql5.6"/>
Option Group	<input type="text" value="default.mysql-5-6"/>
Copy Tags To Snapshots	<input type="checkbox"/>
Enable IAM DB Authentication	<input type="text" value="No Preference"/>
Enable Encryption	<input type="text" value="No"/>

Backup

Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail [here](#).

Backup Retention Period	<input type="text" value="7"/> days
Backup Window	<input type="text" value="Select Window"/>
Start Time	<input type="text" value="00"/> : <input type="text" value="00"/> UTC
Duration	<input type="text" value="0.5"/> hours

Monitoring

Enable Enhanced Monitoring	<input type="text" value="No"/>
----------------------------	---------------------------------

Maintenance

Auto Minor Version Upgrade	<input type="text" value="Yes"/>
Maintenance Window	<input type="text" value="No Preference"/>

Select the period in which you want pending modifications (such as changing the DB instance class) or patches applied to the DB instance by Amazon RDS. Any such maintenance should be started and completed within the selected period. If you do not select a period, Amazon RDS will assign a period randomly. [Learn More](#).

* Required

Cancel

Previous

Launch DB Instance

Launch DB Instance

Show Monitoring

Instance Actions

Filter: All Instances Search DB Instances... Viewing 1 of 1 DB Instances

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Rep
MySQL	ec2-rds	available	1.00%	0 Connections	None	db.t2.micro	vpc-fa725983	No	

Endpoint: ec2-rds.ca89b8psnsxg.us-east-1.rds.amazonaws.com:3306 (authorized)

Configuration Details

ARNarn:aws:rds:us-east-1:514602770466:db:ec2-rds

EngineMySQL 5.6.35

License ModelGeneral Public License

Created TimeAugust 28, 2017 at 10:01:23 PM UTC+5:30

DB NameTestingec2RDS

Usernameroot

Option Groupdefault.mysql-5-6 (in-sync)

Parameter Groupdefault.mysql5.6 (in-sync)

Copy Tags To SnapshotsNo

Resource IDdb-EYCHDCVUCSOKFO4ZEANOMT4O3Y

IAM DB Authentication EnabledNo

Security and Network

Availability Zoneus-east-1e

VPCvpc-fa725983

Subnet Groupdefault-vpc-fa725983 (Complete)

Subnetsubnet-d9eda3d5

subnet-c855bdf7

subnet-b724efd3

subnet-bc1c0bf4

subnet-e4206abe

subnet-10ce9f3c

Security Groupsrds-launch-wizard-3 (sg-158cfc65) (active)

Publicly AccessibleNo

Endpointec2-rds.ca89b8psnsxg.us-east-1.rds.amazonaws.com

Port3306

Certificate Authorityrds-ca-2015 (Mar 5, 2020)

Instance and IOPS

Instance Classdb.t2.micro

Storage TypeGeneral Purpose (SSD)

IOPSdisabled

Storage5 GB

Monitoring Details

Enhanced Monitoring EnabledNo

Encryption Details

Encryption EnabledNo

Availability and Durability

DB Instance Statusavailable

Multi AZNo

Maintenance Details

Auto Minor Version UpgradeYes

Maintenance Windowmon:02:00-mon:02:30

Create Image

Instance ID ⓘ

i-0c5b2f9733b1cab67

Image name ⓘ

EC2-INSTANCE-IMAGE

Image description ⓘ

EC2-INSTANCE-IMAGE

No reboot ⓘ

☒

Instance Volumes

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encrypted ⓘ
Root	/dev/xvda	snap-083018866ac6b06eb	8	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Total size of EBS Volumes: 8 GiB
When you create an EBS image, an EBS snapshot will also be created for each of the above volumes.

Cancel

Create Image

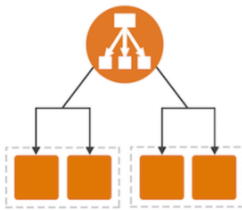
Welcome to Elastic Load Balancing

Select load balancer type

Elastic Load Balancing supports two types of load balancers: Application Load Balancers (new) and Classic Load Balancers. Choose the load balancer type that meets your needs. [Learn more.](#)

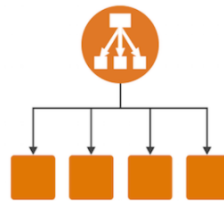
Application Load Balancer

☒ Preferred for HTTP/HTTPS



An Application Load Balancer makes routing decisions at the application layer (HTTP/HTTPS), supports path-based routing, and can route requests to one or more ports on each EC2 instance or container instance in your VPC.

Classic Load Balancer



A Classic Load Balancer makes routing decisions at either the transport layer (TCP/SSL) or the application layer (HTTP/HTTPS), and supports either EC2-Classic or a VPC.

Cancel

Continue

Step 1: Define Load Balancer

Basic Configuration

This wizard will walk you through setting up a new load balancer. Begin by giving your new load balancer a unique name so that you can identify it from other load balancers you might create. You will also need to configure ports and protocols for your load balancer. Traffic from your clients can be routed from any load balancer port to any port on your EC2 instances. By default, we've configured your load balancer with a standard web server on port 80.

Load Balancer name:

WEB-LOAD

Create LB Inside:

My Default VPC (172.31.0.0/16)

Create an internal load balancer:

☐ (what's this?)

Enable advanced VPC configuration:

☐

Listener Configuration:

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port
HTTP	80	HTTP	80

Add

Step 6: Add Tags

Apply tags to your resources to help organize and identify them.

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key

Value

NAME

WEB-LOAD

Create Tag

Create Load Balancer Actions

Filter: Search

1 to 1 of 1

Name	DNS name	State	VPC ID	Availability Zones	Type	Created At
WEB-LOAD	WEB-LOAD-872278376.us-...		vpc-fecce287	us-east-1a, us-east-1b,...	classic	August 28

Create Launch Configuration

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Search my AMIs

EC2-INSTANCE-IMAGE - ami-241e125f

EC2-INSTANCE-IMAGE

Root device type: ebs Virtualization type: hvm Owner: 514602770466

Select

64-bit

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate

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

Create Launch Configuration

Name

WEB-AS

Purchasing option

☐ Request Spot Instances

IAM role

None

Monitoring

☐ Enable CloudWatch detailed monitoring

Learn more

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

Create Launch Configuration

Review the details of your launch configuration. You can go back to edit the details of each section before you finish.

AMI Details

EC2-INSTANCE-IMAGE - ami-241e125f

EC2-INSTANCE-IMAGE

Root device type: ebs Virtualization Type: hvm

Edit AMI

Instance Type

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

Edit instance type

Launch configuration details

Name

WEB-AS

Purchasing option

On demand

EBS Optimized

No

Monitoring

No

IAM role

None

Edit details

Cancel

Previous

Create launch configuration

Select an existing key pair or create a new key pair



A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Choose an existing key pair

Select a key pair

srinu

☒ I acknowledge that I have access to the selected private key file (srinu.pem), and that without this file, I won't be able to log into my instance.

Cancel

Create launch configuration

Launch configuration creation status

✓ Successfully created launch configuration: WEB-AS
[View creation log](#)

View

[View your launch configurations](#)
[View your Auto Scaling groups](#)

Here are some helpful resources to get you started

Create an Auto Scaling group using this launch configuration

Close

Create Auto Scaling Group

Launch Configuration ⓘ

WEB-AS

Group name ⓘ

WEB-AUTOSCALING

Group size ⓘ

Start with 3 instances

Network ⓘ

vpc-fecce287 (172.31.0.0/16) (default)



Create new VPC

Subnet ⓘ

subnet-fd6f86c2(172.31.48.0/20) | Default in us-east-1e ×
subnet-6a377f30(172.31.32.0/20) | Default in us-east-1c ×
subnet-4f051007(172.31.16.0/20) | Default in us-east-1b ×
subnet-5aec243e(172.31.0.0/20) | Default in us-east-1d ×
subnet-37e2ad3b(172.31.64.0/20) | Default in us-east-1f ×
subnet-fdf8afd1(172.31.80.0/20) | Default in us-east-1a ×

Create new subnet

Each instance in this Auto Scaling group will be assigned a public IP address. ⓘ

Adding the subnets to create the highly available application.

▼ Advanced Details

Load Balancing ⓘ

☒ Receive traffic from one or more load balancers

[Learn about Elastic Load Balancing](#)

Classic Load Balancers ⓘ

WEB-LOAD ✕

Target Groups ⓘ

Health Check Type ⓘ

☒ ELB ☐ EC2

Health Check Grace Period ⓘ

300 seconds

Monitoring ⓘ

Amazon EC2 Detailed Monitoring metrics, which are provided at 1 minute frequency, are not enabled for the launch configuration WEB-AS. Instances launched from it will use Basic Monitoring metrics, provided at 5 minute frequency.

[Learn more](#)

Instance Protection ⓘ

Create Alarm



You can use CloudWatch alarms to be notified automatically whenever metric data reaches a level you define.

To edit an alarm, first choose whom to notify and then define when the notification should be sent.

☒ Send a notification to: About-Instances (srinivasvl.vayalapalli99([create topic](#))

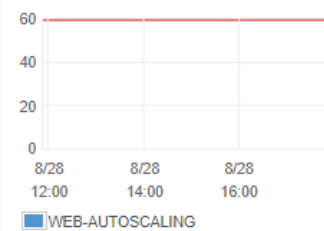
Whenever: Average ▼ of CPU Utilization ▼

Is: >= ▼ 60 Percent

For at least: 1 consecutive period(s) of 1 Minute ▼

Name of alarm: awsec2-WEB-AUTOSCALING-CPU-Utilization

CPU Utilization Percent



Cancel

Create Alarm

Create Alarm



You can use CloudWatch alarms to be notified automatically whenever metric data reaches a level you define.

To edit an alarm, first choose whom to notify and then define when the notification should be sent.

☒ Send a notification to: About-Instances (srinivasvl.vayalapalli99([create topic](#))

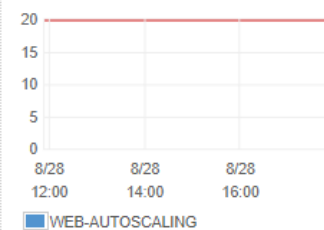
Whenever: Average ▼ of CPU Utilization ▼

Is: <= ▼ 20 Percent

For at least: 1 consecutive period(s) of 1 Minute ▼

Name of alarm: awsec2-WEB-AUTOSCALING-High-CPU-Utilizatic

CPU Utilization Percent



Cancel

Create Alarm

Here we are setting the alarm to increase and decrease the resources. We are adding the previously created load balancer.

Create Auto Scaling Group

Increase Group Size

Name:

Execute policy when: [Edit](#) [Remove](#)
breaches the alarm threshold: CPUUtilization >= 60 for 60 seconds
for the metric dimensions AutoScalingGroupName = WEB-AUTOSCALING

Take the action: when <= CPUUtilization < +infinity
[Add step](#) ⓘ

Instances need: seconds to warm up after each step

[Create a simple scaling policy](#) ⓘ

Decrease Group Size

Name:

Execute policy when: [Edit](#) [Remove](#)
breaches the alarm threshold: CPUUtilization <= 20 for 60 seconds
for the metric dimensions AutoScalingGroupName = WEB-AUTOSCALING

Take the action: when >= CPUUtilization > -infinity
[Add step](#) ⓘ

[Create a simple scaling policy](#) ⓘ

Create Auto Scaling Group

A tag consists of a case sensitive key-value pair that you can use to identify your group. For example, you could define a tag with Key = Environment and Value = Production. You can optionally choose to apply these tags to instances in the group when they launch. [Learn more.](#)

Key	Value	Tag New Instances ⓘ
<input type="text" value="Name"/>	<input type="text" value="WEB-AUTOSCALING"/>	<input checked="" type="checkbox"/>

Here we can see the auto scaling process and the defined rules to create the scale in and scale out resources.

Create Auto Scaling group Actions

Filter: Filter Auto Scaling groups... 1 to 1 of 1 Auto Scaling Groups

Name	Launch Configuration	Instances	Desired	Min	Max	Availability Zones	Default Cooldown	Health Check Grace
WEB-AUTOSC...	WEB-AS	3	3	3	3	us-east-1a, us-east-1b, us-e...	300	300

1 54.227.131.64:22 x +

```
[root@ip-172-30-0-154 ec2-user]# mysql -h srinu.ca89b8psnsxg.us-east-1.rds.amazonaws.com -uroot -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 5.6.35-log MySQL Community Server (GPL)

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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> show databases;
+-----+
| Database |
+-----+
| information_schema |
| haiti |
| innodb |
| mysql |
| performance_schema |
| sys |
+-----+
```

> Send text to the current tab only

ssh://ec2-user@54.227.131.64:22 SSH2 xterm 92x25 25,8 1 session CAP NUM

So here load balancer will provide one link. We can access those instances from that link.