



Project - 1: Deploying a Multi-Tier Website Using AWS EC2

Description:

Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware up front so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.

Problem Statement:

Company ABC wants to move their product to AWS. They have the following things set up right now:

1. MySQL DB
2. Website (PHP)

The company wants high availability on this product, therefore wants Auto Scaling to be enabled on this website.

Steps To Solve:

1. Launch an EC2 Instance
2. Enable Auto Scaling on these instances (minimum 2)
3. Create an RDS Instance
4. Create Database & Table in RDS instance:
 - a. Database name: intel
 - b. Table name: data
 - c. Database password: intel123
5. Change hostname in website
6. Allow traffic from EC2 to RDS instance
7. Allow all-traffic to EC2 instance

Jan 18 2:00 PM

Start Course | RDS | us-east-1 | Security Groups | Instances | EC2 Instance | ChatGPT | 18.207.120.20 | +

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

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EC2 Dashboard X

EC2 Global View

Events

Console-to-Code Preview

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

▼ Images

AMIs

AMI Catalog

Instances (1) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running X Clear filters

< 1 > ⚙

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Avail...
<input type="checkbox"/>	demoPHP	i-0e0b61426a0c5eeae	Running	t2.micro	2/2 checks passed	View alarms +	us-

Select an instance

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-019c2ac5fe...

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EC2 > Security Groups > sg-019c2ac5fe930d705 - ec2-rds-1 > Edit inbound rules

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules Info

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sg-r-0f52685b2dc75a70b	HTTP	TCP	80	Custom 0.0.0.0/0 X		Delete
sg-r-0aba141863dceb76	SSH	TCP	22	Custom 0.0.0.0/0 X		Delete

Add rule

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

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyOutboundSecurityGroupRules:securityGroupId=sg-019c2ac5f... ☆

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EC2 > Security Groups > sg-019c2ac5fe930d705 - ec2-rds-1 > Edit outbound rules

Edit outbound rules [Info](#)

Outbound rules control the outgoing traffic that's allowed to leave the instance.

Outbound rules [Info](#)

Security group rule ID	Type Info	Protocol Info	Port range Info	Destination Info	Description - optional Info
sgr-071b90da026bfc9b3	All traffic	All	All	Custom <input type="text" value="0.0.0.0/0"/>	<input type="text" value=""/>
sgr-02c93649710b71469	MySQL/Aurora	TCP	3306	Custom <input type="text" value="sg-0816ecc2ce6706d6a"/>	<input type="text" value="\$ security group is attached to"/> Rule to allow connections to mysql- db from any instances this security group is attached to

[Add rule](#)

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

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Engine options

Engine type [Info](#)

☐ Aurora (MySQL Compatible)

☐ Aurora (PostgreSQL Compatible)

☒ MySQL

☐ PostgreSQL

☐ MariaDB

☐ Oracle

MySQL

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.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance Instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read

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▼ Credentials Settings

Master username [Info](#)
Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. The first character must be a letter.

☐ **Manage master credentials in AWS Secrets Manager**
Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.

Info If you manage the master user credentials in Secrets Manager, some RDS features aren't supported. [Learn more](#)

☐ **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 master password [Info](#)

MySQL

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.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

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▼ Additional configuration

Database options, backup turned off, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

Database options

Initial database name [Info](#)

intel

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

DB parameter group [Info](#)

default.mysql8.0

Option group [Info](#)

default:mysql-8-0

Backup

☐ **Enable automated backups**
Creates a point-in-time snapshot of your database

MySQL

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.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read

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

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Amazon RDS

- Dashboard
- Databases**
- Query Editor
- Performance Insights
- Snapshots
- Exports in Amazon S3
- Automated backups
- Reserved Instances
- Proxies
- Subnet groups
- Parameter groups
- Option groups
- Custom engine versions
- Zero-ETL Integrations [New](#)

RDS > Databases

Databases (1) ☒ Group resources

<input type="checkbox"/>	DB identifier ▲	Status ▼	Role ▼	Engine ▼	Region & AZ ▼	Size ▼	Recommendation
<input type="radio"/>	mysql-db	Available	Instance	MySQL Community	us-east-1b	db.t2.micro	

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https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database:id=mysql-db;is-cluster=false

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Amazon RDS

- Dashboard
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- Performance Insights
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- Exports in Amazon S3
- Automated backups
- Reserved Instances
- Proxies
- Subnet groups
- Parameter groups
- Option groups
- Custom engine versions
- Zero-ETL Integrations [New](#)

RDS > Databases > mysql-db

mysql-db

Summary

DB Identifier mysql-db	Status Available	Role Instance	Engine MySQL Community	Recommendations
CPU 5.50%	Class db.t2.micro	Current activity 1 Connections	Region & AZ us-east-1b	

< **Connectivity & security** | Monitoring | Logs & events | Configuration | Zero-ETL integrations | Maintenance & >

Connectivity & security

Endpoint & port	Networking	Security
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https://us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#database-id=mysql-dbjis-cluster=false

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Amazon RDS

Dashboard
Databases
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Performance Insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved Instances
Proxies

Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL Integrations **New**

Events

Connectivity & security

Endpoint & port	Networking	Security
Endpoint mysql-db.cakvj97ke5vr.us-east-1.rds.amazonaws.com	Availability Zone us-east-1b	VPC security groups rds-ec2-1 (sg-0816ecc2ce6706d6a) Active
Port 3306	VPC vpc-0e1d54cef9823402c	Publicly accessible No
	Subnet group rds-ec2-db-subnet-group-1	Certificate authority Info rds-ca-2019
	Subnets subnet-0b75737214e204a2d subnet-0674f2f5e748a15ca subnet-05cd2d8543b8b6002 subnet-02508fa1814872a3d subnet-040d7b4ba85da41c7	Certificate authority date August 22, 2024, 22:38 (UTC+05:30)
		DB Instance certificate expiration date August 22, 2024, 22:38 (UTC+05:30)

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https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-0816ecc2ce6706d6a

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EC2 > Security Groups > sg-0816ecc2ce6706d6a - rds-ec2-1 > Edit inbound rules

Edit inbound rules **Info**

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules **Info**

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
sg-0cbb58d8987892bb7	MYSQL/Aurora	TCP	3306	Custom	Rule to allow connections from EC2 instances with sg-019c2ac5fe930d705 attached

Add rule

Cancel Preview changes **Save rules**

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyOutboundSecurityGroupRules:securityGroupId=sg-0816ecc2ce6706d6a-rds-ec2-1

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EC2 > Security Groups > sg-0816ecc2ce6706d6a - rds-ec2-1 > Edit outbound rules

Edit outbound rules [Info](#)

Outbound rules control the outgoing traffic that's allowed to leave the instance.

Outbound rules [Info](#)

Security group rule ID	Type Info	Protocol Info	Port range Info	Destination Info	Description - optional Info
sgr-079bba236e25d15b9	All traffic	All	All	Custom	<input type="text" value="0.0.0.0/0"/>

[Add rule](#)

[Delete](#)

[Cancel](#) [Preview changes](#) [Save rules](#)

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

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0adb6186aa15698...

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```
mariadb-5.5.68-1.amzn2.0.1.x86_64.rpm | 8.8 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : 1:mariadb-5.5.68-1.amzn2.0.1.x86_64 1/1
  Verifying : 1:mariadb-5.5.68-1.amzn2.0.1.x86_64 1/1

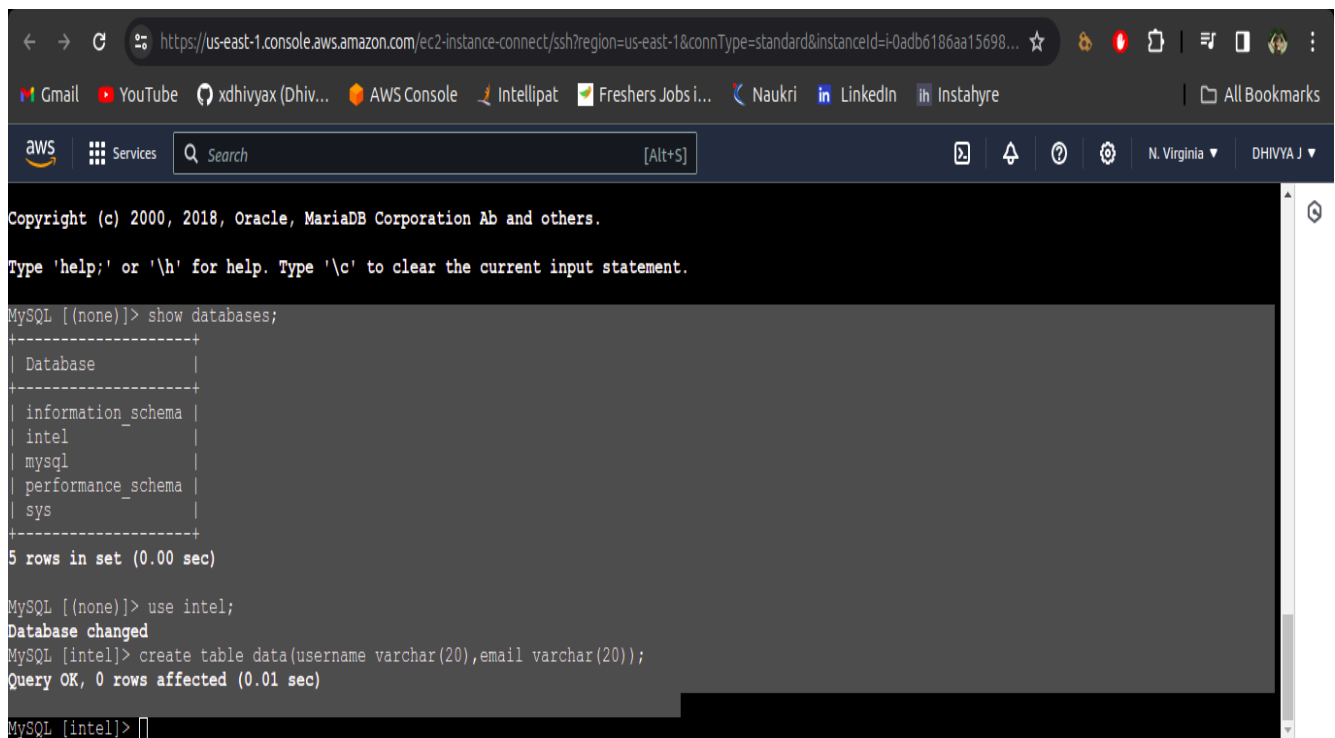
Installed:
  mariadb.x86_64 1:5.5.68-1.amzn2.0.1

Complete!
[ec2-user@ip-172-31-81-111 ~]$ sudo mysql -h mysql-db.cakvj97ke5vr.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 37
Server version: 8.0.35 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]>
```

The screenshot shows a web browser window with the AWS console URL. The terminal interface displays the following text:

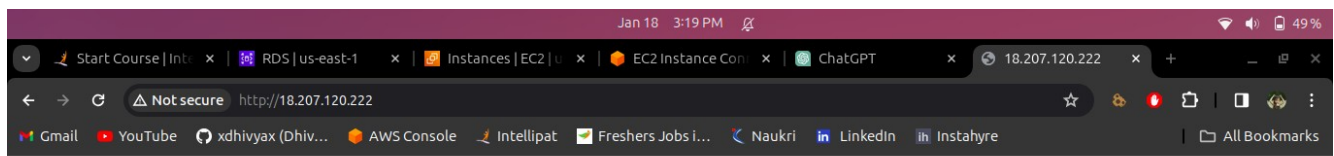
```
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| intel      |
| mysql      |
| performance_schema |
| sys        |
+-----+
5 rows in set (0.00 sec)

MySQL [(none)]> use intel;
Database changed
MySQL [intel]> create table data(username varchar(20),email varchar(20));
Query OK, 0 rows affected (0.01 sec)

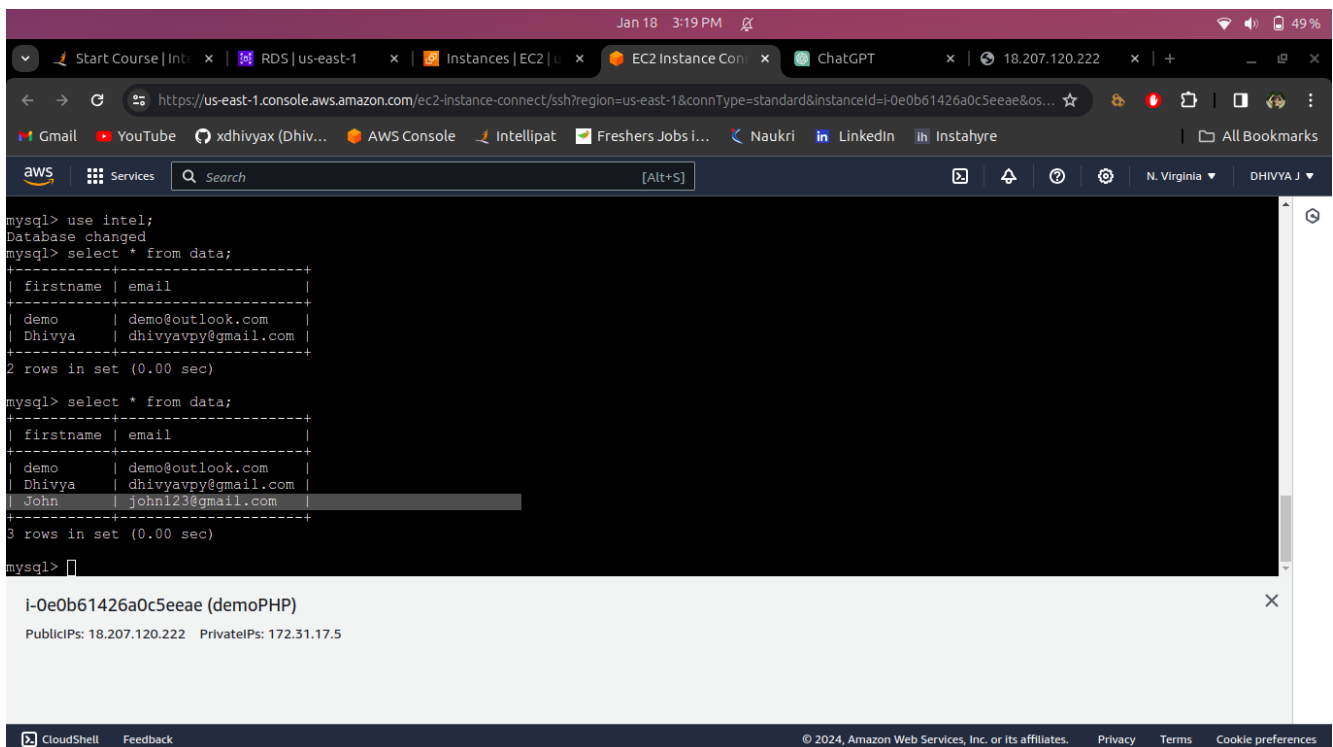
MySQL [intel]> 
```



Name:

Email:

New record created successfully



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Start Course | RDS | us-east-1 | Instances | EC2 | Launch temp | EC2 Instance | ChatGPT | 18.207.120.22 | +

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

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Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

Instance state = running | Clear filters

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check
<input checked="" type="checkbox"/>	demoPHP	i-0e0b61426a0c5eeae	Running	t2.micro	2/2 checks pass

Actions

- Launch Instances
- Connect
- View details
- Manage instance state
- Instance settings
- Networking
- Security
- Image and templates
- Monitor and troubleshoot

Create image
Create template from instance
Launch more like this

Instance: i-0e0b61426a0c5eeae (demoPHP)

Security groups

sg-019c2ac5fe930d705 (ec2-rds-1)

Inbound rules

Filter rules

1

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateImage:instanceId=i-0e0b61426a0c5eeae

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EC2 > Instances > i-0e0b61426a0c5eeae > Create image

Create image Info

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

Instance ID
i-0e0b61426a0c5eeae (demoPHP)

Image name
MyPHPApp-Image
Maximum 127 characters. Can't be modified after creation.

Image description - optional
MyPHPApp-Image
Maximum 255 characters

No reboot
☐ Enable

Instance volumes

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
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https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Images:visibility=owned-by-me;imageId=ami-05e1b706ceb5fd4

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Savings Plans

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Dedicated Hosts

Capacity Reservations

New

▼ Images

AMIs

AMI Catalog

Amazon Machine Images (AMIs) (1) Info

Recycle Bin EC2 Image Builder Actions Launch instance from AMI

Owned by me Find AMI by attribute or tag

AMI ID = ami-05e1b706ceb5fd4 Clear filters

<input type="checkbox"/>	Name	AMI name	AMI ID	Source	Owner
<input type="checkbox"/>	MyPHPApp-image		ami-05e1b706ceb5fd4	917788167444/MyPHPApp-image	917788167

Select an AMI

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https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#CreateTemplate:

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EC2 > Launch templates > Create launch template

Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

Launch template name and description

Launch template name - required

PHP-template

Must be unique to this account. Max 128 chars. No spaces or special characters like '%', '!', '@'.

Template version description

PHP-template

Max 255 chars

Auto Scaling guidance Info

Select this if you intend to use this template with EC2 Auto Scaling

☐ Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

Summary

Software Image (AMI)

MyPHPApp-image
ami-05e1b706ceb5fd4

Virtual server type (instance type)

-

Firewall (security group)

ec2-rds-1

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

Cancel Create launch template

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https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#CreateTemplate:

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Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents My AMIs Quick Start

☐ Don't include in launch template ☒ Owned by me

☐ Shared with me

Browse more AMIs
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

MyPHPApp-image
ami-05e1b706ceb5fdb4
2024-01-18T10:15:21.000Z Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Summary

Software Image (AMI)
MyPHPApp-image
ami-05e1b706ceb5fdb4

Virtual server type (instance type)
-

Firewall (security group)
ec2-rds-1

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

Cancel Create launch template

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:launchTemplateId=lt-0fd590e54bacd...

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EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1 Choose launch template

Step 2 Choose instance launch options

Step 3 - optional Configure advanced options

Step 4 - optional Configure group size and scaling

Step 5 - optional Add notifications

Step 6 - optional Add tags

Step 7 Review

Choose launch template Info

Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group.

Name

Auto Scaling group name
Enter a name to identify the group.
PHP-App-ASG
Must be unique to this account in the current Region and no more than 255 characters.

Launch template Info

For accounts created after May 31, 2023, the EC2 console only supports creating Auto Scaling groups with launch templates. Creating Auto Scaling groups with launch configurations is not recommended but still available via the CLI and API until December 31, 2023.

Launch template
Choose a launch template that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.
PHP-template
Create a launch template

Version

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup.launchTemplateId=lt-0fd590e54bacd... | All Bookmarks

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Choose instance launch options

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

Step 4 - optional
Configure group size and scaling

Step 5 - optional
[Add notifications](#)

Step 6 - optional
[Add tags](#)

Step 7
[Review](#)

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

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

Units (number of insta... ▾

Desired capacity
Specify your group size.
3

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

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

Min desired capacity
2
Equal or less than desired capacity

Max desired capacity
6
Equal or greater than desired capacity

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EC2 > Auto Scaling groups > Create Auto Scaling group

Step 1
[Choose launch template](#)

Step 2
[Choose Instance launch options](#)

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

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

Step 5 - optional
[Add notifications](#)

Step 6 - optional
Add tags

Step 7
[Review](#)

Add tags - optional Info
Add tags to help you search, filter, and track your Auto Scaling group across AWS. You can also choose to automatically add these tags to instances when they are launched.

ⓘ You can optionally choose to add tags to instances (and their attached EBS volumes) by specifying tags in your launch template. We recommend caution, however, because the tag values for instances from your launch template will be overridden if there are any duplicate keys specified for the Auto Scaling group. ✕

Tags (1)

Key	Value - optional	Tag new instances	
Name	PHP-ASG	<input checked="" type="checkbox"/>	Remove

Add tag
49 remaining

Cancel Previous Next

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EC2 > Auto Scaling groups

Auto Scaling groups (1/1) Info

Launch configurations Launch templates Actions Create Auto Scaling group

Search your Auto Scaling groups

<input checked="" type="checkbox"/>	Name	Launch template/configuration	Instances	Status	Desired capacity	Min
<input checked="" type="checkbox"/>	PHP-App-ASG	PHP-template Version Default	3	-	3	2

Auto Scaling group: PHP-App-ASG

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https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:v=3;\$case=tags:true%5C,client:false;\$regex=tags:false%5...

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EC2 Dashboard x

EC2 Global View

Events

Console-to-Code Preview

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

Images

AMIs

AMI Catalog

Instances (3/4) Info

Connect Instance state Actions Launch Instances

Find Instance by attribute or tag (case-sensitive)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Avi
<input checked="" type="checkbox"/>	PHP-ASG	i-07c8f251bbaa28027	Running	c1.medium	Initializing	View alarms +	us-
<input checked="" type="checkbox"/>	PHP-ASG	i-044d2114b5d8df951	Running	c1.medium	Initializing	View alarms +	us-
<input type="checkbox"/>	demoPHP	i-0e0b61426a0c5eeae	Running	t2.micro	2/2 checks passed	View alarms +	us-
<input checked="" type="checkbox"/>	PHP-ASG	i-0e90b5daadae284a4	Running	c1.medium	Initializing	View alarms +	us-

Instances: i-07c8f251bbaa28027 (PHP-ASG), i-044d2114b5d8df951 (PHP-ASG), i-0e90b5daadae284a4 (PHP-ASG)

Monitoring

Alarm recommendations

3h 1d 1w 1h UTC timezone

Add to dashboard (Opens new tab)

CPU utilization (%)	Network in (bytes)	Network out (bytes)	Network packets in (...)
No unit	No unit	No unit	No unit

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EC2 Dashboard X

EC2 Global View

Events

Console-to-Code Preview

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

▼ Images

AMIs

AMI Catalog

Instances (1/4) Info

Find Instance by attribute or tag (case-sensitive)

Connect Instance state Actions Launch Instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Av
<input checked="" type="checkbox"/>	PHP-ASG	i-07c8f251bbaa28027	Running	c1.medium	Initializing	View alarms +	us-
<input type="checkbox"/>	PHP-ASG	i-044d2114b5d8df951	Running	c1.medium	Initializing	View alarms +	us-
<input type="checkbox"/>	demoPHP	i-OeOb61426a0c5eeae	Running	t2.micro	2/2 checks passed	View alarms +	us-
<input type="checkbox"/>	PHP-ASG	i-0a90h5d3afae28af3f	Running	c1.medium	Initializing	View alarms +	us-

Instance: i-07c8f251bbaa28027 (PHP-ASG)

Details Status and alarms New Monitoring Security Networking Storage Tags

▼ Instance summary Info

Instance ID i-07c8f251bbaa28027 (PHP-ASG)	Public IPv4 address 35.153.60.56 open address	Private IPv4 addresses 172.31.6.218
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-35-153-60-56.compute-1.amazonaws.com open address

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0e0b61426a0c5ee... ☆

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

```
mysql> use intel;
Database changed
mysql> select * from data;
```

firstname	email
demo	demo@outlook.com
Dhivya	dhivyavpy@gmail.com
John	john123@gmail.com
madan	rulethenewworld@gmail.com
AWS	aws123@gmail.com

5 rows in set (0.00 sec)

```
mysql>
```

i-0e0b61426a0c5eeae (demoPHP)

PublicIPs: 18.207.120.222 PrivateIPs: 172.31.17.5

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