

1. Creación Security Groups

a. Security group for web applications:

i. HTTP from 0.0.0.0/0

Inbound rule 1 Delete

Type Info	Protocol Info	Port range Info
HTTP	TCP	80
Source type Info	Source Info	Description - optional Info
Anywhere-IPv4	0.0.0.0/0	HTTP from 0.0.0.0/0

ii. SSH from 0.0.0.0/0

Inbound rule 2 Delete

Type Info	Protocol Info	Port range Info
SSH	TCP	22
Source type Info	Source Info	Description - optional Info
Anywhere-IPv4	0.0.0.0/0	SSH from 0.0.0.0/0

Services

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Source Groups & Tag Editor

EC2 > Security Groups > sg-0283a7b5e3611c95d - webApp-sg

sg-0283a7b5e3611c95d - webApp-sg Actions

Details

Security group name webApp-sg	Security group ID sg-0283a7b5e3611c95d	Description Security Group app web	VPC ID vpc-089c68d03157e4f19
Owner 196387886641	Inbound rules count 2 Permission entries	Outbound rules count 1 Permission entry	

Inbound rules

Outbound rules

Tags

Inbound rules (2)

Filter security group rules

< 1 >

Security group rule...	IP versi...	Type	Port ra...	Source	Description
sgr-0b9cb08f4445e5037	IPv4	HTTP	80	0.0.0.0/0	HTTP from 0.0.0.0/0
sgr-0f4fde37163979c25	IPv4	SSH	22	0.0.0.0/0	SSH from 0.0.0.0/0

b. Security group for DB
i. MySQL from web application SG

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Source Groups & Tag Editor

EC2 > Security Groups > sg-08ad17f287d992f4f - database-sg

sg-08ad17f287d992f4f - database-sg Actions ▾

Details

Security group name database-sg	Security group ID sg-08ad17f287d992f4f	Description Security group DB	VPC ID vpc-089c68d03157e4f19
Owner 196387886641	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules | Outbound rules | Tags

Inbound rules (1/1)

< 1 >

<input checked="" type="checkbox"/>	Name ▾	Security group rule... ▾	Type ▾	Port ra... ▾	Source ▾
<input checked="" type="checkbox"/>	-	sgr-02b59cd9e61cf8513	MYSQL/Aur...	3306	sg-0283a7b5e3611c95d / webApp-sg

2. Creación del Servidor EC2

a. AMI

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Step 1: Select AMI Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Amazon Machine Image (AMI)

Cancel and Exit

Search by Systems Manager parameter

1 to 42 of 42 AMIs

Amazon Linux
Free tier eligible

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-031eb8d942193d84f (64-bit x86) / ami-02b252278263c353c (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

Select

☒ 64-bit (x86)
☐ 64-bit (Arm)

b. Instancia

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Resource Groups & Tag Editor

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

Step 2: Choose an Instance Type

<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes

c. VPC / d. Subred

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Resource Groups & Tag Editor

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

3. Configure Instance Details

Network *i* vpc-089c68d03157e4f19 | act-01-vpc [Create new VPC](#)

Subnet *i* subnet-0faa02285d5f0b7d4 | public-subnet | eu-west-1 [Create new subnet](#)

251 IP Addresses available

e. Script usuario

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Resource Groups & Tag Editor

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

3. Configure Instance Details

User data *i* ☒ As text ☐ As file ☐ Input is already base64 encoded

```
#!/bin/bash
yum -y install httpd php mysql php-mysql
case $(ps -p 1 -o comm | tail -1) in systemd) systemctl enable --now httpd ;; init) chkconfig httpd on; service httpd start ;; *) echo "Error starting httpd (OS not using init or systemd)." 2>&1 esac

if [ ! -f /var/www/html/bootcamp-app.tar.gz ]; then cd /var/www/html wget https://s3.amazonaws.com/immersionday-labs/bootcamp-app.tar tar xvf bootcamp-app.tar chown apache:root /var/www/html/rds.conf.php fi
yum -y update
```

f. Volume EBS

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Resource Groups & Tag Editor

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

Step 4: Add Storage

Volume Type i	Device i	Snapshot i	Size (GiB) i	Volume Type i	IOPS i	Throughput (MB/s) i	Delete on Termination i
Root	/dev/xvda	snap-09bf5bad0a8a28f7f	8	General Purpose ⌵	100 / 3000	N/A	<input type="checkbox"/>

g. Grupo de seguridad

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Resource Groups & Tag Editor

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

Step 6: Configure Security Group

<input type="checkbox"/>	sg-08f3c5b724a5bfadd	default	default VPC security group	Copy to new
<input checked="" type="checkbox"/>	sg-0283a7b5e3611c95d	webApp-sg	Security Group app web	Copy to new

Inbound rules for sg-0283a7b5e3611c95d (Selected security groups: sg-0283a7b5e3611c95d)

Type i	Protocol i	Port Range i	Source i	Description i
HTTP	TCP	80	0.0.0.0/0	HTTP from 0.0.0.0/...
SSH	TCP	22	0.0.0.0/0	SSH from 0.0.0.0/0

h. SSH key

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.](#)

Create a new key pair ⌵

Key pair type

☒ RSA ☐ ED25519

Key pair name

aws-act-02

[Download Key Pair](#)

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Instances (1/3) [Info](#) 🔄 [Connect](#) [Instance state](#) ▼ [Actions](#) ▼ [Launch instances](#) ▼

Q Search ◀ 1 ▶ ⚙️

	Name ▼	Instance ID	Instance state ▼	Public IPv4 ... ▼	Securit... ▼	Key name ▼	Launch time
<input checked="" type="checkbox"/>	-	i-0b1be27f801e64720	🟢 Running 🔍	52.47.209.89	webApp-sg	aws-act-02	2022/01/16 23:21 GMT+1

3. Acceso servidor web por SSH

re | 52.47.209.89

wer  Editor.md  VPS  Guitar  M.M.M.  GP4YOU  Japanese  Donation  cc



LOAD TEST

RDS

Meta-Data	Value
Instanceld	<i>i-0b1be27f801e64720</i>
Availability Zone	<i>eu-west-3a</i>

Current CPU Load: 1%

...www/html — ssh -i new-aws-act02.pem ec2-user@ip-10-0-0-221:/var/www/html — ssh -i new-aws-act02.pem ec2-user@52.4

...www/html — ssh -i new-aws-act02.pem ec2-user@52.47.209.89

~/ssh — -bash

MacBook-Pro:~\$ ssh -i "new-aws-act02.pem" ec2-user@52.47.209.89
Last login: Sun Jan 16 22:23:37 2022 from 55.pool85-49-10.dynamic.orange.es

```

  _|  _||_  )
 _| (  _||_ /   Amazon Linux 2 AMI
___|\____|___|

```

<https://aws.amazon.com/amazon-linux-2/>

-bash: warning: setlocale: LC_CTYPE: cannot change locale (UTF-8): No such file or directory

[[ec2-user@ip-10-0-0-221 ~]\$ ls

[[ec2-user@ip-10-0-0-221 ~]\$ cd /var/www/html/

[[ec2-user@ip-10-0-0-221 html]\$ ls

```

bootcamp-app.tar      index.php             rds-config.php       rds.conf.php.template
db-update.php         load.php              rds-read-data.php    rds.php
get-cpu-load.php      menu.php              rds-write-config.php sql
get-index-meta-data.php put-cpu-load.php      rds.conf.php         style.css
[[ec2-user@ip-10-0-0-221 html]$

```

4. Creación y configuración MySQL

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Connectivity & security

Endpoint & port

Endpoint

phonebook-db-1.cks6whbkehwo.eu-west-3.rds.amazonaws.com

Port

3306

Networking

Availability Zone

eu-west-3a

VPC

act-01-vpc (vpc-089c68d03157e4f19)

Subnet group

db-subnet-01

Subnets

subnet-04db9bc9cf6359a50

subnet-040171fb71ad1eef1

Security

VPC security groups

database-sg (sg-08ad17f287d992f4f)

Active

Publicly accessible

No

Certificate authority

rds-ca-2019

Certificate authority date

August 22, 2024, 01:08 (UTC±1:08)

Not secure | 52.47.209.89/rds.php

Cognizant -

StackEdit

IELTS

MapStruct – Java b...

Tech roadmaps

»

LOAD TEST

RDS

Address Book

Name	Phone	Email	Admin	
			Add Contact	
Alice	571-555-4875	alice@address2.us	Edit	Remove
Bob	630-555-1254	bob@fakeaddress.com	Edit	Remove