

# Final Deployment Documentation

Step 1 : Setting up RDS with MySQL with desired username and password. After that an endpoint will be created.

The screenshot displays the Amazon RDS console interface. The left sidebar contains navigation links for 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, Events, and CloudShell. The main content area shows the configuration for the RDS instance 'f-user6mysql'. The 'Summary' tab is active, displaying the following details:

DB identifier	Status	Role	Engine	Recommendations
f-user6mysql	Available	Instance	MySQL Community	2 Informational
CPU	Class	Current activity	Region & AZ	
4.63%	db.t3.micro	30 Connections	us-east-1b	

Below the summary, the 'Connectivity & security' tab is selected, showing the following details:

Endpoint & port	Networking	Security
Endpoint f-user6mysql.cgfmshjynal8.us-east-1.rds.amazonaws.com	Availability Zone us-east-1b	VPC security groups default (sg-029f5b3d8f00c32d1)
		Active

Step 2 : I used the above endpoint with spring boot application to work with that database. After that I've created jars for all the services I've worked with. After that I've setup my EC2 instance with

AMI - amazon linux

Instance Type - t3.xlarge

Storage - 256 Gib

The screenshot displays the Amazon EC2 console interface. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Console-to-Code, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, and Volumes. The main content area shows a list of instances with the following columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IP. The instance 'F-user6-weather-app' is selected, and its details are shown below:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
F-user6-weather-app	i-0d85fcaae8ecb4c91	Running	t3.xlarge	2/2 checks passed	View alarms	us-east-1a	ec2-52-6-1...
fuser-14-librar...	i-03e589740740d21d4	Running	t3.xlarge	2/2 checks passed	View alarms	us-east-1a	ec2-34-23...
Booksrd-env	i-0ecf29db3c9995bf2	Running	t3.micro	2/2 checks passed	View alarms	us-east-1d	ec2-52-72...
F-user18-news...	i-0846887d438173219	Running	t2.medium	2/2 checks passed	View alarms	us-east-1d	ec2-54-91...

The details for the selected instance 'i-0d85fcaae8ecb4c91 (F-user6-weather-app)' are shown below:

Instance ID	Instance state	Private IP DNS name (IPv4 only)	Instance type	VPC ID
i-0d85fcaae8ecb4c91 (F-user6-weather-app)	Running	ip-172-30-0-131.ec2.internal	t3.xlarge	vpc-0e50cae43562a7b5f
IPv6 address				
Hostname type				
IP name: ip-172-30-0-131.ec2.internal				
Answer private resource DNS name				
Auto-assigned IP address				

Additional details for the instance are shown on the right:

Public IPv4 DNS	Elastic IP addresses	AWS Compute Optimizer finding
ec2-52-6-117-167.compute-1.amazonaws.com	52.6.117.167 [Public IP]	Opt-in to AWS Compute Optimizer for recommendation

Step 3 : Running all the jars inside ec2 (using **screen -S <session-name> java -jar <service-name>.jar**)

aws

Services

Search

[Alt+S]

N. Virginia

F-user6 @ 6762-6651-2832

2024-01-22T09:43:30.001Z INFO 10651 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration

2024-01-22T09:48:30.002Z INFO 10651 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration

2024-01-22T09:53:30.002Z INFO 10651 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration

2024-01-22T09:58:30.003Z INFO 10651 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configuration

2024-01-22T09:58:45.520Z INFO 10651 --- [nio-9010-exec-5] c.j.a.controller.AuthController : performing login

2024-01-22T09:58:45.520Z INFO 10651 --- [nio-9010-exec-5] c.j.authservice.service.AuthServiceImpl : loadUserByUsername() invoked

2024-01-22T09:58:45.528Z INFO 10651 --- [nio-9010-exec-5] c.j.authservice.service.AuthServiceImpl : loadUserByUsername() invoked

2024-01-22T09:58:45.534Z INFO 10651 --- [nio-9010-exec-5] c.j.a.controller.AuthController : token generated eyJhbGciOiJIUzI1NiJ9.eyJleHAiOiE3MDU5MjExMjUsIm1hdCI6MTcwNTkxNzUyYnNwIj0iIjoicmFtZXNoIiwiaXNzIjoiamF5In0.nLXLRpMxrAllv6VFXK4M4\_o-n65px4oTn-pFCJt\_DyA

[detached from 10650.auth]

[ec2-user@ip-172-30-0-131 ~]\$ screen -r

There are several suitable screens on:

10650.auth (Detached)

7083.zipkin (Detached)

6954.wishlist (Detached)

6848.weather (Detached)

6601.user (Detached)

6148.gateway (Detached)

6050.eureka (Detached)

5997.config (Detached)

5466.kafka (Detached)

4988.zookeeper (Detached)

Type "screen [-d] -r [pid.]tty.host" to resume one of them.

[ec2-user@ip-172-30-0-131 ~]\$

i-0d85fcaae8ecb4c91 (F-user6-weather-app)

PublicIPs: 52.6.117.167 PrivateIPs: 172.30.0.131

CloudShell

Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Step 4 : Creating API Gateway above ec2 instance

aws

Services

Search

[Alt+S]

N. Virginia

F-user6 @ 6762-6651-2832

API Gateway

APIs

Custom domain names

VPC links

▼ API: F-user6-weather

Resources

Stages

Authorizers

Gateway responses

Models

Resource policy

Documentation

Dashboard

API settings

Usage plans

API keys

API Gateway > APIs > Resources - F-user6-weather (lp1ocggb8f)

Resources

API actions Deploy API

Create resource

/

/api

OPTIONS

/auth

OPTIONS

/login

OPTIONS

POST

/books

OPTIONS

/users

OPTIONS

Resource details

Update documentation Enable CORS

Path / Resource ID ri6dx8bbwi

Methods (0)

Delete Create method

Method type	Integration type	Authorization	API key
No methods			
No methods defined.			

CloudShell

Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Step 5 : Setting up S3 for frontend deployment

aws

Services

Search

[Alt+S]

Global

F-user6 @ 6762-6651-2832

☰

Objects (16) Info

↻

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

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

Find objects by prefix

Show versions

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	asset-manifest.json	json	January 21, 2024, 15:59:54 (UTC+05:30)	1.5 KB	Standard
<input type="checkbox"/>	auth-service.jar	jar	January 22, 2024, 13:14:41 (UTC+05:30)	95.4 MB	Standard
<input type="checkbox"/>	eureka-server.jar	jar	January 20, 2024, 21:32:11 (UTC+05:30)	52.0 MB	Standard
<input type="checkbox"/>	favicon.ico	ico	January 21, 2024, 15:59:56 (UTC+05:30)	3.8 KB	Standard
<input type="checkbox"/>	index.html	html	January 21, 2024, 15:59:57 (UTC+05:30)	644.0 B	Standard
<input type="checkbox"/>	logo192.png	png	January 21, 2024, 15:59:59 (UTC+05:30)	5.2 KB	Standard
<input type="checkbox"/>	logo512.png	png	January 21, 2024, 16:00:01 (UTC+05:30)	9.4 KB	Standard
<input type="checkbox"/>	manifest.json	json	January 21, 2024, 16:00:03 (UTC+05:30)	517.0 B	Standard

CloudShell

Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Step 6 : Setting up cloudfront for better performance and website security

aws

Services

Search

[Alt+S]

Global

F-user6 @ 6762-6651-2832

CloudFront

Distributions

Policies

Functions

What's new

Telemetry

Monitoring

Alarms

Logs

Reports & analytics

Cache statistics

Popular objects

Top referrers

Usage

Viewers

Security

Origin access

Field-level encryption

CloudFront > Distributions > E2CYHDRUZ91SKP

E2CYHDRUZ91SKP

View metrics

General

Security

Origins

Behaviors

Error pages

Invalidations

Tags

Details

Distribution domain name

d2fg7hed25lnny.cloudfront.net

ARN

arn:aws:cloudfront::676266512832:distribution/E2CYHDRUZ91SKP

Last modified

January 22, 2024 at 4:07:28 AM UTC

Settings

Description

-

Price class

Use all edge locations (best performance)

Supported HTTP versions

HTTP/2, HTTP/1.1, HTTP/1.0

Alternate domain names

-

Standard logging

Off

Cookie logging

Off

Default root object

-

Edit

CloudShell

Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences