AWS project:

VPC configure:

* name: employee-vpc.
* Created a public instance

Commands used: 1. ssh -i "employee-key.pem" [ec2-user@52.66.99.52](mailto:ec2-user@52.66.99.52)

2. sudo yum update

3. installing java for spring boot application: sudo yum install java-17-amazon-corretto-headless

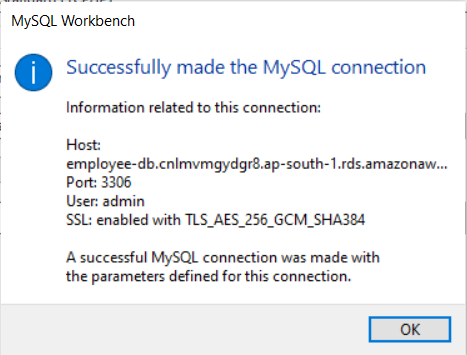
4. RDS db name: employee-db, db port: 3306;

Database name: employeeMS

Username: admin

password: password

db endpoint: employee-db.cnlmvmgydgr8.ap-south-1.rds.amazonaws.com

5. db locally connection made: 

Code: mobaxtream: , #\_

~\\_ ####\_ Amazon Linux 2023

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~~ \#/ \_\_\_ https://aws.amazon.com/linux/amazon-linux-2023

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Last login: Sun Jun 4 08:42:47 2023 from 52.66.99.52

[ec2-user@ip-172-20-1-134 ~]$ ip addr

1: lo: <LOOPBACK,UP,LOWER\_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000

link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00

inet 127.0.0.1/8 scope host lo

valid\_lft forever preferred\_lft forever

inet6 ::1/128 scope host

valid\_lft forever preferred\_lft forever

2: enX0: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 9001 qdisc fq\_codel state UP group default qlen 1000

link/ether 02:21:db:6d:75:d8 brd ff:ff:ff:ff:ff:ff

altname eni-02622976c0f1e8ec2

altname device-number-0

inet 172.20.1.134/24 metric 512 brd 172.20.1.255 scope global dynamic enX0

valid\_lft 2406sec preferred\_lft 2406sec

inet6 fe80::21:dbff:fe6d:75d8/64 scope link

valid\_lft forever preferred\_lft forever

[ec2-user@ip-172-20-1-134 ~]$ ls

employee-key.pem

[ec2-user@ip-172-20-1-134 ~]$ ls -al

total 20

drwx------. 3 ec2-user ec2-user 119 Jun 4 09:04 .

drwxr-xr-x. 3 root root 22 Jun 4 06:48 ..

-rw-------. 1 ec2-user ec2-user 355 Jun 4 12:56 .bash\_history

-rw-r--r--. 1 ec2-user ec2-user 18 Jan 28 22:29 .bash\_logout

-rw-r--r--. 1 ec2-user ec2-user 141 Jan 28 22:29 .bash\_profile

-rw-r--r--. 1 ec2-user ec2-user 492 Jan 28 22:29 .bashrc

drwx------. 2 ec2-user ec2-user 71 Jun 4 08:42 .ssh

-r--------. 1 ec2-user ec2-user 1679 Jun 4 08:40 employee-key.pem

[ec2-user@ip-172-20-1-134 ~]$ sudo yum update

Last metadata expiration check: 6:52:09 ago on Sun Jun 4 06:48:37 2023.

Dependencies resolved.

Nothing to do.

Complete!

[ec2-user@ip-172-20-1-134 ~]$ java --version

openjdk 17.0.7 2023-04-18 LTS

OpenJDK Runtime Environment Corretto-17.0.7.7.1 (build 17.0.7+7-LTS)

OpenJDK 64-Bit Server VM Corretto-17.0.7.7.1 (build 17.0.7+7-LTS, mixed mode, sharing)

[ec2-user@ip-172-20-1-134 ~]$ ls

employee-key.pem

[ec2-user@ip-172-20-1-134 ~]$ ls

employee-key.pem

[ec2-user@ip-172-20-1-134 ~]$ ls

employee-key.pem employeemanagmentbackend-0.0.1-SNAPSHOT.jar

[ec2-user@ip-172-20-1-134 ~]$ cat employee

cat: employee: No such file or directory

[ec2-user@ip-172-20-1-134 ~]$ cat employee-key.pem

-----BEGIN RSA PRIVATE KEY-----

MIIEpAIBAAKCAQEArV/BA2qQvbQybYwWJvVZ8JV3OTY9sOh5yp+5yMN6vF+tZar2

xpBz9Uue/wb18+HlNOfFBnohy4VZQfeZ6o7SDqRzlpniw7WNzI7XP+6NMW+V3Wui

nnVEKwagOUkeasTrd/Ag4iXeZWplV6IuQ1/iF8f44q/oehlXQVPx9frbcVUaoPGM

Lmb1YUNqmsTS2M4H+Cpyx2MhBswfwMSQX9QMJH84jsEK8zFd6f1xDFXtLj0qUu1r

thI9JQB9emw7qIkn/rQCVjDqWfsT3L8vtcFUNTAi0+cUMjC9hqEO5mBojrsFaeZi

7za8+0bea/XozTHHEof6KSzeIGr5MnMSC5MHdwIDAQABAoIBAA0hGjnLASkMk2EO

YcMTg3sfpoazn9pc0JRSojwc6ZeIW1Y+qy+AUve5gVHo0gllCvmFr7r81sBV2duQ

B5zmseuf8ozuHGkbv6BFFPHne9PJknzRIOCFGuNzPgD4k5AcV4Ser67QlVXyx7fq

NTyu7y1D3Io2LhHJB32QANvS4nlji4tpxlyJ4IKahydf34GsBZlU+HmEnITHXvPf

v90nydmoIy+RjfoZMfTMRsPTfxPw4nmzStXqJ9m/I7MxEuAriYwdwmGB+10BDZOM

sqZtE1lOTzHUzQzhjKbRDJ7QG4eqt1s9J6yrmSSZVAXwbFgvzTf1gXnrMhfyqhgl

m+1Es8ECgYEA3kLBAJ9DiJlRM1thcuR5Wxs+SdQI+FTQxP0upMFHBepalIkGRwYz

SNqGcFmg2BmJW6DiaA4l2qdbaIq4LWkSLwW34HoObvLjVl7MOnhiMgMitp44gzfa

itipUMEUeHxtNTwWp3U/48v1gYwDoqBMKTOJT5WMs77kROHji4znTeECgYEAx7E4

PhE3EzXdY6ob/evK4vQ1Qt75FI7peDRbzSOzgQUrWr1s5oDeThwxi3KT65YspFEU

1re1NFSI5SeT9+aEPl4sIRKI4N1ZHakpDo9ZXjeJqD5ZDMpVtM0jdiUNgZhaI9jH

RwOR9tWKlh3fe9cpHcEkqNpCBz8VBB8OuNhJkFcCgYBwjnO5Qe5sbeBOVtep3ISM

m+ZWcxe70xAKwoDtlKfIGh+XGzFfpIcyPOBaYzluVrhV+8rMkWWgLqK+9YlCDfTU

dVviRU2r6Dsy0T0x2yc3VpkszEGoSg/VwtUz/SPFxJV1oSGD2n/pd6+z1Fk+8VjA

gMXn1L91g5WMQK0ATfIRYQKBgQC0qR1j8bks9Q9s6mpWqCsudpd0/zrDIaQRLvVa

uxDcCew2NKfARhhY/GLKcQdoHL4Yjo5Wz27tgAk1oD/bCD7eGd68sQMKxNap4e+W

D5Rfi8lLX9S6oJc3clvBuDXm6Ams4qMvGQjGEl1GAJK+fGLjW2iqJoOUALsntl1g

V7T+EwKBgQC8pyd+P2Z3LAq83rDrjxZnOVXXxJ/ZUScCQf5AmVrd7UeyhIqNcqrJ

3b1N4lm68WeHCOSagRfVfQCXq9r220uskQc3jq93/P7uEAJo6S4zOiAsn38nFjIQ

6QxiSGUCRR88+stBv+xk/z7ciAGnU2yu6gylvbUso1hPeenJdBzv+w==

-----END RSA PRIVATE KEY-----

[ec2-user@ip-172-20-1-134 ~]$ java ^C

[ec2-user@ip-172-20-1-134 ~]$ java -jar employeemanagmentbackend-0.0.1-SNAPSHOT.jar

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:: Spring Boot :: (v2.7.0)

2023-06-04 14:50:55.089 INFO 40183 --- [ main] .t.e.EmployeemanagmentbackendApplication : Starting EmployeemanagmentbackendApplication v0.0.1-SNAPSHOT using Java 17.0.7 on ip-172-20-1-134.ap-south-1.compute.internal with PID 40183 (/home/ec2-user/employeemanagmentbackend-0.0.1-SNAPSHOT.jar started by ec2-user in /home/ec2-user)

2023-06-04 14:50:55.100 INFO 40183 --- [ main] .t.e.EmployeemanagmentbackendApplication : No active profile set, falling back to 1 default profile: "default"

2023-06-04 14:50:56.952 INFO 40183 --- [ main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.

2023-06-04 14:50:57.082 INFO 40183 --- [ main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 110 ms. Found 1 JPA repository interfaces.

2023-06-04 14:50:58.522 INFO 40183 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)

2023-06-04 14:50:58.585 INFO 40183 --- [ main] o.apache.catalina.core.StandardService : Starting service [Tomcat]

2023-06-04 14:50:58.586 INFO 40183 --- [ main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.63]

2023-06-04 14:50:58.773 INFO 40183 --- [ main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext

2023-06-04 14:50:58.773 INFO 40183 --- [ main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 3537 ms

2023-06-04 14:50:59.682 INFO 40183 --- [ main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]

2023-06-04 14:50:59.787 INFO 40183 --- [ main] org.hibernate.Version : HHH000412: Hibernate ORM core version 5.6.9.Final

2023-06-04 14:51:00.150 INFO 40183 --- [ main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}

2023-06-04 14:51:00.363 INFO 40183 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...

2023-06-04 14:51:01.238 INFO 40183 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.

2023-06-04 14:51:01.307 INFO 40183 --- [ main] org.hibernate.dialect.Dialect : HHH000400: Using dialect: org.hibernate.dialect.MySQL8Dialect

2023-06-04 14:51:02.756 INFO 40183 --- [ main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]

2023-06-04 14:51:02.781 INFO 40183 --- [ main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'

2023-06-04 14:51:03.551 WARN 40183 --- [ main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning

2023-06-04 14:51:04.374 INFO 40183 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''

2023-06-04 14:51:04.403 INFO 40183 --- [ main] .t.e.EmployeemanagmentbackendApplication : Started EmployeemanagmentbackendApplication in 10.432 seconds (JVM running for 11.56)

2023-06-04 14:59:31.682 INFO 40183 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'

2023-06-04 14:59:31.689 INFO 40183 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'

2023-06-04 14:59:31.691 INFO 40183 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms

Git:   
IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws

$ git clone https://github.com/dennisiluma/employee-management.git

Cloning into 'employee-management'...

remote: Enumerating objects: 75, done.

remote: Counting objects: 100% (75/75), done.

remote: Compressing objects: 100% (58/58), done.

remote: Total 75 (delta 7), reused 66 (delta 5), pack-reused 0

Receiving objects: 100% (75/75), 347.33 KiB | 861.00 KiB/s, done.

Resolving deltas: 100% (7/7), done.

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws

$ ls

employee-management/

cd em

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws

$ cd employee-management/

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management (main)

$ ls

LICENSE employeemanagement-frontend/ employeemanagmentbackend.iml

README.md employeemanagmentbackend/

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management (main)

$ cd employeemanagmentbackend

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend (main)

$ ls

employeemanagmentbackend.iml mvnw\* mvnw.cmd pom.xml src/ target/

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend (main)

$ cd target/

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ ls

classes/ maven-archiver/

employeemanagmentbackend-0.0.1-SNAPSHOT.jar maven-status/

employeemanagmentbackend-0.0.1-SNAPSHOT.jar.original surefire-reports/

generated-sources/ test-classes/

generated-test-sources/

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ pwd

/f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ ^C

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ scp -i ~//f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/employee-key.pem employeemanagmentbackend-0.0.1-SNAPSHOT.jar ec2-user@ec2-52-66-99-52.ap-south-1.compute.amazonaws.com:/home/ec2-user

Warning: Identity file /c/Users/IdeaPad//f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/employee-key.pem not accessible: No such file or directory.

The authenticity of host 'ec2-52-66-99-52.ap-south-1.compute.amazonaws.com (52.66.99.52)' can't be established.

ED25519 key fingerprint is SHA256:WwS2FQoozB5zNqZ2mgAY9BBKJUroOWKMCE92aZSJqoo.

This host key is known by the following other names/addresses:

~/.ssh/known\_hosts:4: 52.66.99.52

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added 'ec2-52-66-99-52.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

ec2-user@ec2-52-66-99-52.ap-south-1.compute.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).

scp: Connection closed

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ scp -i ~//f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/employee-key.pem employeemanagmentbackend-0.0.1-SNAPSHOT.jar ec2-user@ec2-52-66-99-52.ap-south-1.compute.amazonaws.com:/home/ec2-user

Warning: Identity file /c/Users/IdeaPad//f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/employee-key.pem not accessible: No such file or directory.

ec2-user@ec2-52-66-99-52.ap-south-1.compute.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).

scp: Connection closed

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ ^C

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ scp -i ~/F:/full-stack-web-app\_aws/employee-management/employee-key.pem employeemanagmentbackend-0.0.1-SNAPSHOT.jar ec2-user@ec2-52-66-99-52.ap-south-1.compute.amazonaws.com:/home/ec2-user Warning: Identity file /c/Users/IdeaPad/F:/full-stack-web-app\_aws/employee-management/employee-key.pem not accessible: No such file or directory.

ec2-user@ec2-52-66-99-52.ap-south-1.compute.amazonaws.com: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).

scp: Connection closed

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ ls

classes/ generated-sources/ maven-status/

employeemanagmentbackend-0.0.1-SNAPSHOT.jar generated-test-sources/ surefire-reports/

employeemanagmentbackend-0.0.1-SNAPSHOT.jar.original maven-archiver/ test-classes/

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend/target (main)

$ cd ..

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend (main)

$ ls

employeemanagmentbackend.iml mvnw\* mvnw.cmd pom.xml src/ target/

IdeaPad@DESKTOP-0K70E06 MINGW64 /f/full-stack-web-app\_aws/employee-management/employeemanagmentbackend (main)

Important link:

1. <https://docs.aws.amazon.com/corretto/latest/corretto-17-ug/amazon-linux-install.html>
2. <https://www.youtube.com/watch?v=YC7NBNICGeY>
3. <https://www.youtube.com/watch?v=jJJ07Tni81A&t=38s>
4. <https://github.com/dennisiluma/employee-management>

