

Amazon RDS Multi-AZ deployment option for MySQL and PostgreSQL

Learn more

Create database

Discover the benefits of Amazon RDS Multi-AZ deployment for MySQL and PostgreSQL. For your Amazon Aurora MySQL and PostgreSQL workloads, improve transactional commit latencies by 2x, experience faster failover typically less than 55 seconds and, get read scalability with two readable standby DB instances by deploying the Multi-AZ DB cluster.

Resources

You are using the following Amazon RDS resources in the Canada (Central) region (used/quota)

DB Instances (0/40)	Parameter groups (1)
Allocated storage (0 TB/100 TB)	Default (1)
Increase DB instances limit	Custom (0/100)
DB Clusters (0/40)	Option groups (1)
Reserved instances (0/40)	Default (1)
Snapshots (0)	Custom (0/20)
Manual	Subnet groups (1/50)
DB Cluster (0/100)	Supported platforms VPC
DB Instance (0/100)	Default network none
Automated	
DB Cluster (0)	
DB Instance (0)	
Recent events (26)	
Event subscriptions (0/20)	

Refresh

Recommended for you

Build RDS Operational Tasks

Watch how to enable users to perform common tasks such as snapshots or restart DB instances in Amazon RDS. [Learn more](#)

Test Your DR Strategy in Minutes

Amazon Aurora Global Database now supports planned managed failover, making disaster recovery drills a breeze. [Learn more](#)

Implementing Cross-Region DR

Learn how to set up Cross-Region disaster recovery (DR) for Aurora PostgreSQL using an Aurora global database spanning multiple Regions. [Learn more](#)

Time-Series Tables in PostgreSQL

Step-by-step guide to design high-performance time series data tables on Amazon RDS for PostgreSQL. [Learn more](#)

Additional information

Choose a database creation method [Info](#)

☒ Standard create

You set all of the configuration options, including ones for availability, security, backups, and maintenance.

☐ Easy create

Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type [Info](#)

☐ Amazon Aurora

☐ MySQL

☐ MariaDB

☒ PostgreSQL

☐ Oracle

☐ Microsoft SQL Server

Engine Version

PostgreSQL 13.7-R1

## Templates

Choose a sample template to meet your use case.

☐ **Production**

Use defaults for high availability and fast, consistent performance.

☐ **Dev/Test**

This instance is intended for development use outside of a production environment.

☒ **Free tier**

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. [Info](#)

## Availability and durability

### Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

☐ **Multi-AZ DB Cluster - new**

Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

☐ **Multi-AZ DB instance (not supported for Multi-AZ DB cluster snapshot)**

Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

☒ **Single DB instance (not supported for Multi-AZ DB cluster snapshot)**

Creates a single DB instance with no standby DB instances.

## Settings

### DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

### ▼ Credentials Settings

#### Master username [Info](#)

Type a login ID for the master user of your DB instance.

1 to 16 alphanumeric characters. First character must be a letter.

☐ **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](#)

## Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

- ☐ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☒ Burstable classes (includes t classes)

db.t3.micro

2 vCPUs 1 GiB RAM Network: 2,085 Mbps



☐ Include previous generation classes

## Storage

Storage type [Info](#)

General Purpose SSD (gp2)

Baseline performance determined by volume size



Allocated storage

200

GiB

The minimum value is 20 GiB and the maximum value is 6,144 GiB

Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

- ☐ Enable storage autoscaling
- Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

**Compute resource**

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

**Don't connect to an EC2 compute resource**

Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

**Connect to an EC2 compute resource**

Set up a connection to an EC2 compute resource for this database.

**Virtual private cloud (VPC)** [Info](#)

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Create new VPC



Only VPCs with a corresponding DB subnet group are listed.



After a database is created, you can't change its VPC.

**DB Subnet group** [Info](#)

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

Create new DB Subnet Group

**Public access** [Info](#)**Yes**

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

**No**

RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

### VPC security group (firewall) [Info](#)

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

☐ Choose existing  
Choose existing VPC security groups

☒ Create new  
Create new VPC security group

### New VPC security group name

PostgresDB

### Availability Zone [Info](#)

No preference

### RDS Proxy

RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.

- ☐ Create an RDS Proxy [Info](#)  
RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see [Amazon RDS Proxy pricing](#).

### ▼ Additional configuration

### Database port [Info](#)

TCP/IP port that the database will use for application connections.

5432

## Database authentication

### Database authentication options [Info](#)

- ☒ Password authentication  
Authenticates using database passwords.
- ☐ Password and IAM database authentication  
Authenticates using the database password and user credentials through AWS IAM users and roles.
- ☐ Password and Kerberos authentication  
Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

## Monitoring

### Performance Insights [Info](#)

☐ Turn on Performance Insights [Info](#)

#### ▼ Additional configuration

Enhanced Monitoring

### Monitoring

☐ Enable Enhanced monitoring  
Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

#### ▼ Additional configuration

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

### Database options

Initial database name [Info](#)

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

DB parameter group [Info](#)

Option group [Info](#)

### Backup

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

### Encryption

☐ Enable encryption  
Choose to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the AWS Key Management Service console. [Info](#)

## Log exports


Select the log types to publish to Amazon CloudWatch Logs

- ☐ PostgreSQL log
- ☐ Upgrade log

## IAM role

The following service-linked role is used for publishing logs to CloudWatch Logs.

RDS service-linked role

 Ensure that general, slow query, and audit logs are turned on. Error logs are enabled by default. [Learn more](#)

## Maintenance

Auto minor version upgrade [Info](#)

- ☐ Enable auto minor version upgrade  
Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.

## Maintenance window [Info](#)

Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

- ☐ Choose a window
- ☒ No preference

## Deletion protection


- ☐ Enable deletion protection  
Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.


## Estimated monthly costs

The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:

- 750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.
- 20 GB of General Purpose Storage (SSD).
- 20 GB for automated backup storage and any user-initiated DB Snapshots.

[Learn more about AWS Free Tier.](#) 

When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the [Amazon RDS Pricing page.](#) 

 You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

Cancel

Create database

RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases

Group resources

Modify

Actions

Restore from S3

Create database

Filter by databases

< 1 >

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current activity	Maintenance	VPC	Multi-AZ	Storage type
database-1	Instance	PostgreSQL	ca-central-1b	db.t3.micro	Available	-		none	vpc-0ac0236fb02b5c381	No	General Purpose

RDS > Databases > database-1

database-1

Summary

DB identifier  
database-1

Role  
Instance

CPU  
3.51%

Current activity  
0 Connections

Status  
Available

Engine  
PostgreSQL

Class  
db.t3.micro

Region & AZ  
ca-central-1b

Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Tags

Connectivity & security

Endpoint & port

Endpoint  
database-1.cqumemj0zjk3.ca-central-1.rds.amazonaws.com

Port  
5432

Networking

Availability Zone  
ca-central-1b

VPC  
vpc-0ac0236fb02b5c381

Security

VPC security groups  
PostgresDB (sg-020de781d02f695b2)

Active

Publicly accessible  
Yes

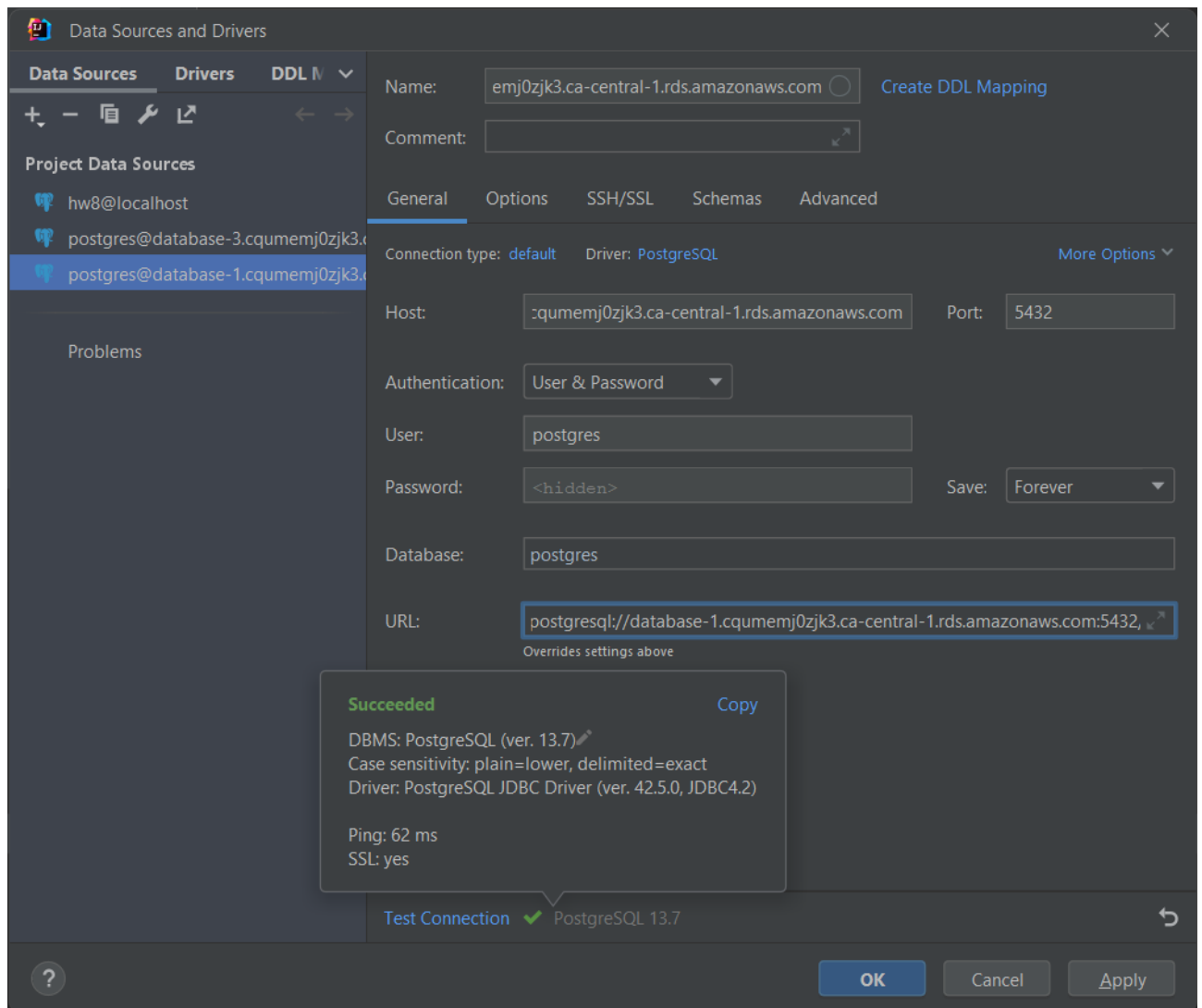
Windows PowerShell

```
PS C:\Users\Serhii Babanov> Test-NetConnection database-1.cqumemj0zjk3.ca-central-1.rds.amazonaws.com -p 5432

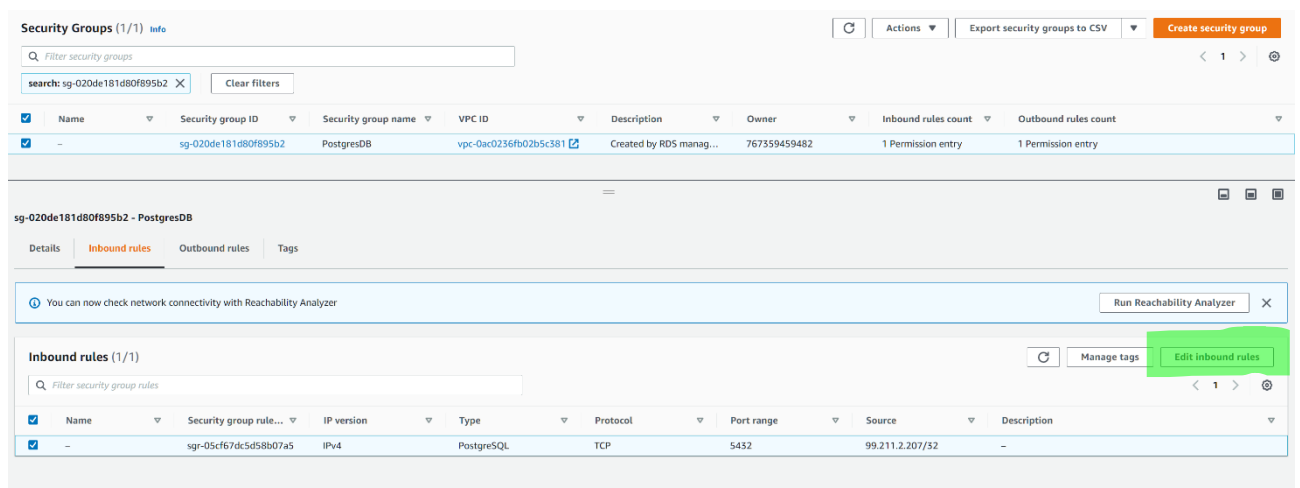
ComputerName      : database-1.cqumemj0zjk3.ca-central-1.rds.amazonaws.com
RemoteAddress     : 15.156.10.22
RemotePort        : 5432
InterfaceAlias     : Ethernet
SourceAddress      : 192.168.0.11
TcpTestSucceeded   : True

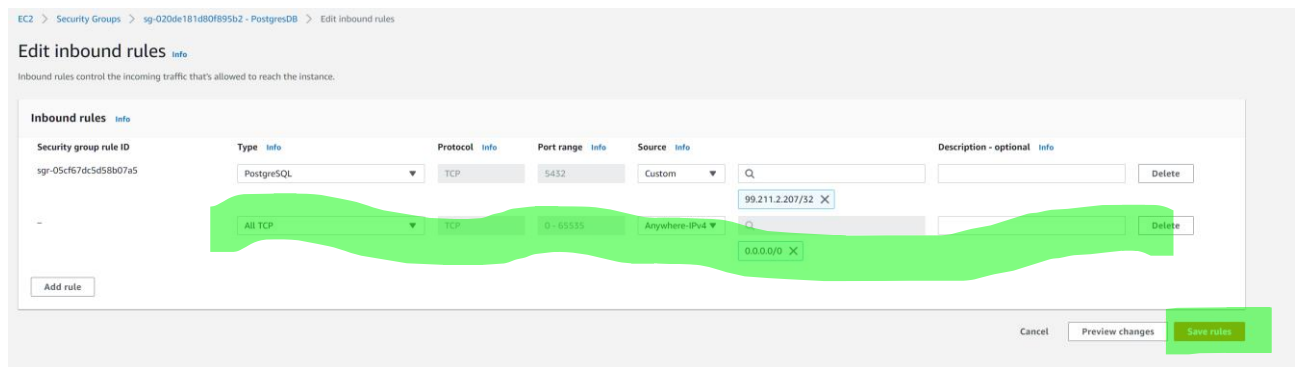
PS C:\Users\Serhii Babanov> |
```



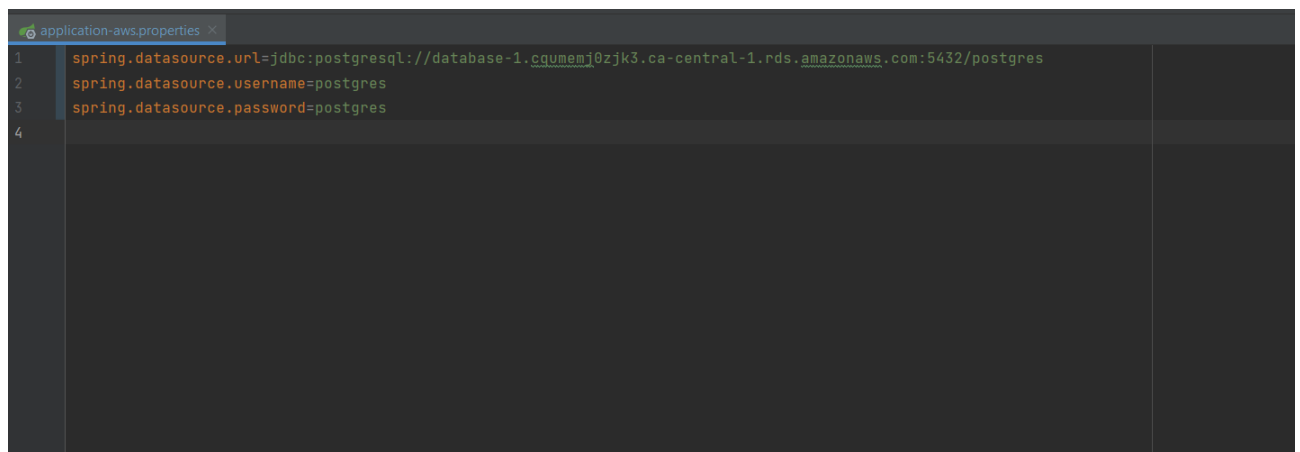


Якщо з'єднання немає, треба додати правила в vpc security group

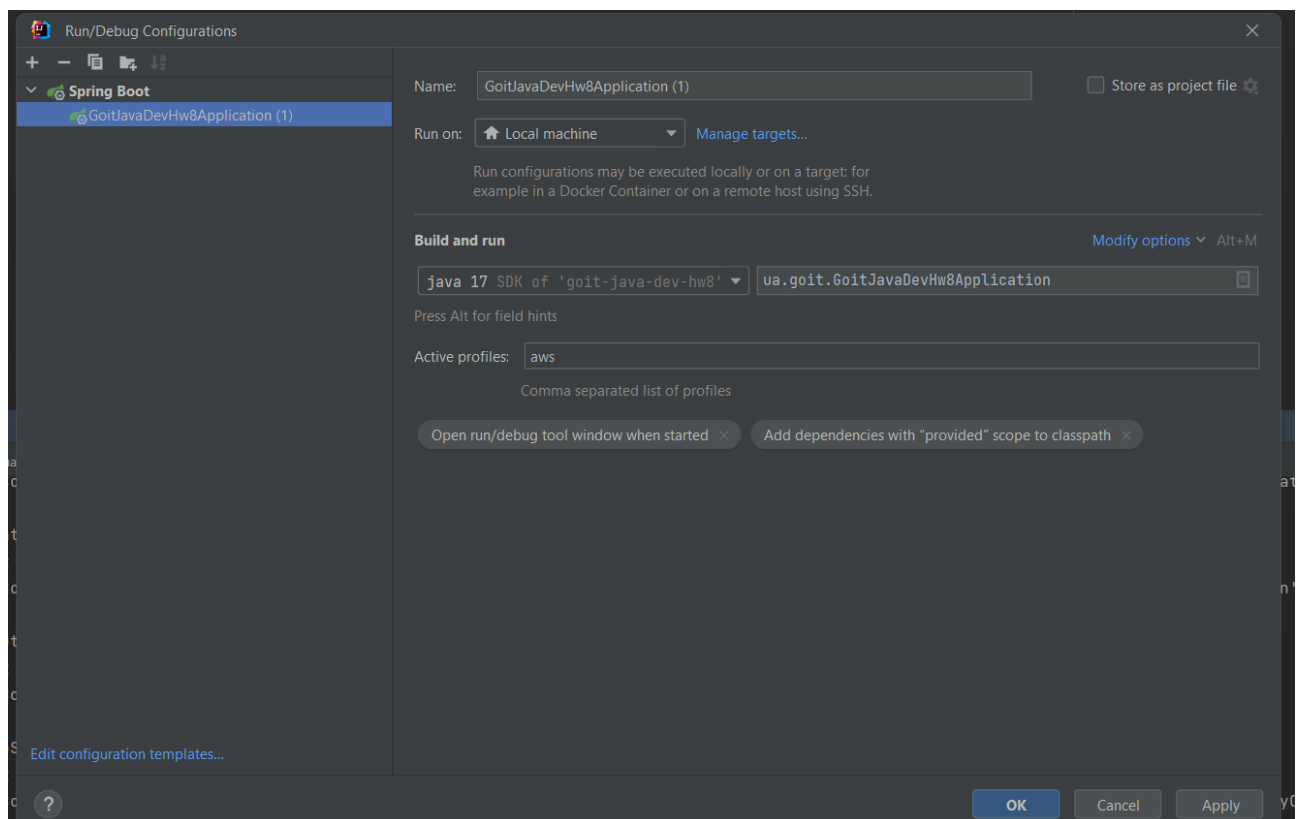




Створюємо файл налаштувань для aws

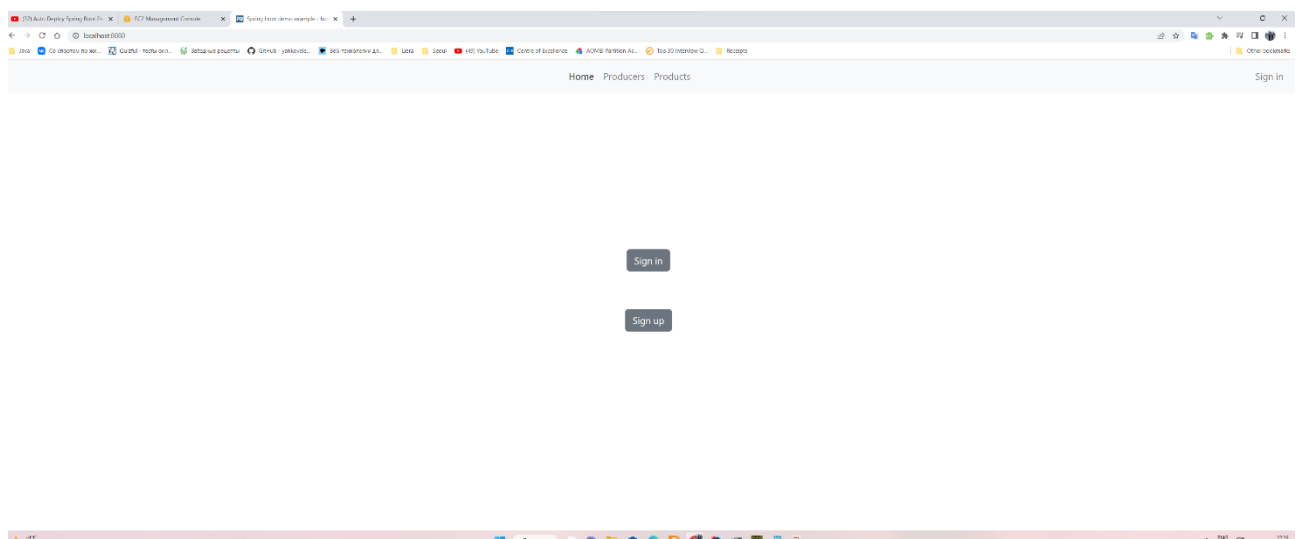


Редагуємо в ідеї конфігурацію для старту з профілем aws



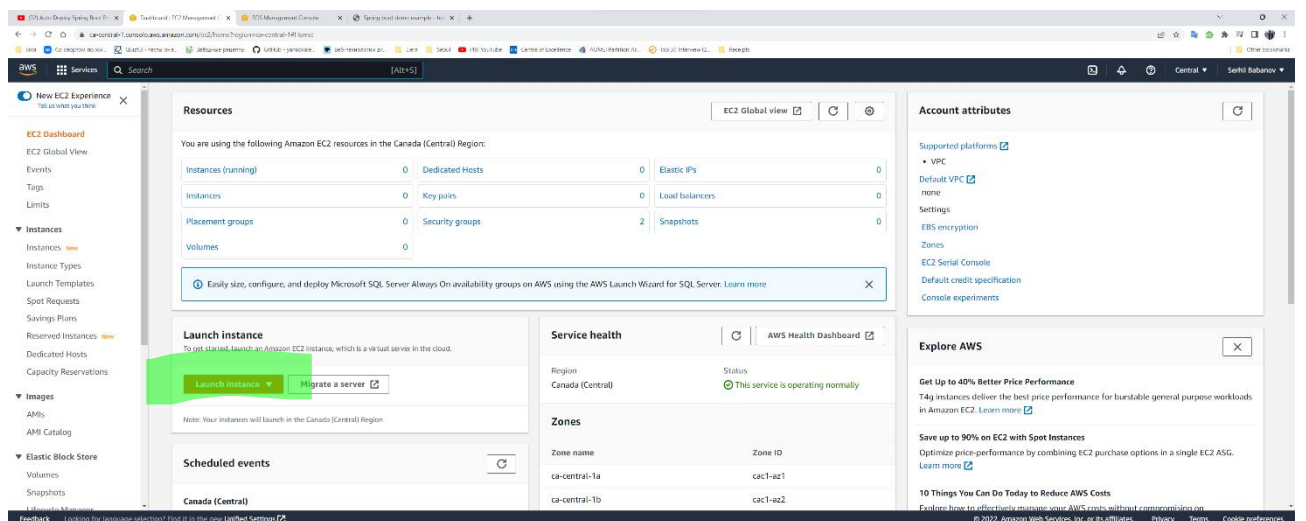
Запускаємо додаток і перевіряємо чи він працює з базою даних. Не забуваємо заповнити її схемою да даними необхідними для старту

```
2022-12-17T21:18:57.825-05:00 INFO 14240 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8888 (http)
2022-12-17T21:18:57.835-05:00 INFO 14240 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-12-17T21:18:57.835-05:00 INFO 14240 --- [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.1]
2022-12-17T21:18:57.914-05:00 INFO 14240 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-12-17T21:18:57.913-05:00 INFO 14240 --- [ restartedMain] w.a.s.ServletWebServerApplicationContext : Root WebApplicationContext: Initialization completed in 1459 ms
2022-12-17T21:18:58.487-05:00 INFO 14240 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2022-12-17T21:18:58.487-05:00 INFO 14240 --- [ restartedMain] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added connection org.postgresql.jdbc.PgConnection@51802d2
2022-12-17T21:18:58.488-05:00 INFO 14240 --- [ restartedMain] o.s.b.a.h2.H2ConsoleAutoConfiguration : HikariPool-1 - Start completed.
2022-12-17T21:18:58.503-05:00 INFO 14240 --- [ restartedMain] o.s.b.a.h2.H2ConsoleAutoConfiguration : H2 console available at '/h2-console'. Database available at 'jdbc:postgresql://database-1.cqumw58rjk3.ca-central-1.rds.amazonaws.com:5432/postgres (PostgreSQL 13.7)'
2022-12-17T21:18:58.634-05:00 INFO 14240 --- [ restartedMain] o.f.c.internal.license.VersionPrinter : Flyway Community Edition 9.5.1 by Redgate
2022-12-17T21:18:58.634-05:00 INFO 14240 --- [ restartedMain] o.f.c.internal.license.VersionPrinter : See what's new here: https://flywaydb.org/documentation/learnmore/releaseNotes9.5.1
2022-12-17T21:18:58.697-05:00 INFO 14240 --- [ restartedMain] o.f.c.i.database.base.BaseDatabaseType : Database: jdbc:postgresql://database-1.cqumw58rjk3.ca-central-1.rds.amazonaws.com:5432/postgres (PostgreSQL 13.7)
2022-12-17T21:18:59.017-05:00 INFO 14240 --- [ restartedMain] o.f.core.internal.command.DbValidate : Successfully validated 3 migrations (execution time 00:00.116s)
2022-12-17T21:18:59.289-05:00 INFO 14240 --- [ restartedMain] o.f.core.internal.command.DbMigrate : Current version of schema "public": 2
2022-12-17T21:18:59.388-05:00 INFO 14240 --- [ restartedMain] o.f.core.internal.command.DbMigrate : Migrating schema "public" to version "3" - add UserRoles and default admin
2022-12-17T21:18:59.393-05:00 INFO 14240 --- [ restartedMain] o.f.core.internal.command.DbMigrate : Successfully applied 1 migration to schema "public", now at version v3 (execution time 00:00.824s)
2022-12-17T21:19:00.208-05:00 INFO 14240 --- [ restartedMain] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2022-12-17T21:19:00.252-05:00 INFO 14240 --- [ restartedMain] org.hibernate.Version : HHH000412: Hibernate ORM core version 6.1.5.Final
2022-12-17T21:19:00.412-05:00 WARN 14240 --- [ restartedMain] org.hibernate.orm.deprecation : HHH9000021: Encountered deprecated setting [javax.persistence.sharedCache.mode], use [jakarta.persistence.sharedCache.mode] instead
2022-12-17T21:19:00.567-05:00 INFO 14240 --- [ restartedMain] SQL dialect : HHH000400: Using dialect: org.hibernate.dialect.PostgreSQLDialect
2022-12-17T21:19:01.478-05:00 INFO 14240 --- [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2022-12-17T21:19:01.487-05:00 INFO 14240 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2022-12-17T21:19:01.958-05:00 WARN 14240 --- [ restartedMain] jpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure it using spring.jpa.open-in-view=false.
2022-12-17T21:19:02.076-05:00 INFO 14240 --- [ restartedMain] o.s.b.a.s.WebContentGeneratorManager : Adding welcome page template: index
2022-12-17T21:19:02.321-05:00 INFO 14240 --- [ restartedMain] o.s.b.web.DefaultSecurityFilterChain : Will secure any request with [org.springframework.security.web.session.DisableEncodeURIComponentFilter@6386edde, org.springframework.security.web.servletapi.SecurityContextHolderAwareRequestFilter@6386edde, org.springframework.security.web.authentication.UsernamePasswordAuthenticationFilter@6386edde, org.springframework.security.web.authentication.logout.LogoutFilter@6386edde]
2022-12-17T21:19:02.421-05:00 INFO 14240 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2022-12-17T21:19:02.463-05:00 INFO 14240 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8888 (http) with context path ''
2022-12-17T21:19:02.674-05:00 INFO 14240 --- [nio-8080-exec-2] ua.goit.GoitJavaDevWebApplication : Started GoitJavaDevWebApplication in 6.688 seconds (process running for 7.44)
2022-12-17T21:19:29.729-05:00 INFO 14240 --- [nio-8080-exec-2] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2022-12-17T21:19:29.729-05:00 INFO 14240 --- [nio-8080-exec-2] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2022-12-17T21:19:29.730-05:00 INFO 14240 --- [nio-8080-exec-2] o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms
```



На цьому етапі ми запускаємо програму локально з використанням Amazon RDS

Наступний етап створення створення EC2 instance і деплой на нього додатку.




## Name and tags [Info](#)


Name


goit-dev6


[Add additional tags](#)


### Quick Start


Amazon  
Linux  


Ubuntu  


Windows  


Red Hat  


SUSE Linux  


  
[Browse more AMIs](#)  
Including AMIs from  
AWS, Marketplace and  
the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type  
ami-06c3426233c180fef (64-bit (x86)) / ami-0e6e68e3f68aa6d18 (64-bit (Arm))  
Virtualization: hvm    ENA enabled: true    Root device type: ebs

Free tier eligible

### Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20221210.1 x86\_64 HVM gp2

Architecture

64-bit (x86)

AMI ID

ami-06c3426233c180fef

Verified provider

## ▼ Instance type [Info](#)

Instance type

t2.micro

Family: t2    1 vCPU    1 GiB Memory

On-Demand Linux pricing: 0.0128 USD per Hour

On-Demand Windows pricing: 0.0174 USD per Hour

Free tier eligible

[Compare instance types](#)

Обов'язково створюємо цифровий ключ

▼ **Key pair (login)** [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Select



Create new key pair

## Create key pair



Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Key pair name

goit-aws-dev6

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type



RSA

RSA encrypted private and public key pair



ED25519

ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format



.pem

For use with OpenSSH



.ppk

For use with PuTTY

Cancel

Create key pair


Та зберігаємо в папку на диску.

subnet-0068a85e4e4450ef4

Auto-assign public IP [Info](#)

[Feedback](#)

Looking for language selection? Find it in the new UI

 goit-aws-dev6.pem



Дозволяємо весь трафік

## ▼ Network settings [Info](#)

Edit

Network [Info](#)

vpc-0ac0236fb02b5c381

Subnet [Info](#)

subnet-0068a85e4e4450ef4

Auto-assign public IP [Info](#)

Enable

### Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group

☐ Select existing security group


We'll create a new security group called **'launch-wizard-1'** with the following rules:

☒ Allow SSH traffic from  
Helps you connect to your instance

Anywhere  
0.0.0.0/0

☒ Allow HTTPS traffic from the internet  
To set up an endpoint, for example when creating a web server

☒ Allow HTTP traffic from the internet  
To set up an endpoint, for example when creating a web server



 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.



▼ **Configure storage** [Info](#)

[Advanced](#)

1x  GiB  ▼ Root volume (Not encrypted)

 Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage 

[Add new volume](#)

0 x File systems

[Edit](#)

## ▼ Summary

Number of instances [Info](#)

1

### Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)  
ami-06c3426233c180fef

### Virtual server type (instance type)

t2.micro

### Firewall (security group)

New security group

### 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 t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of



Cancel

Launch instance



EC2 > Instances > Launch an Instance

**Success**  
Successfully initiated launch of instance (i-01102ced13978a421)

► Launch log

### Next Steps

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.

Create billing alerts

Connect to your instance

Once your instance is running, log into it from your local computer.

Connect to instance

Learn more

Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

Connect an RDS database

Create a new RDS database

Learn more

View all instances

New EC2 Experience

EC2 Dashboard  
EC2 Global View  
Events  
Tags  
Limits

▼ Instances  
Instances **Now**  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances **Now**  
Dedicated Hosts  
Capacity Reservations

▼ Images  
AMIs  
AMI Catalog  
▼ Elastic Block Store  
Volumes

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IPv6 IPs
goit-dev6	i-01102ced13978a421	Running	t2.micro	Initializing	No alarms	ca-central-1a	ec2-3-99-181-248.ca-central-1.compute.amazonaws.com	3.99.181.248	—	—

Instance: i-01102ced13978a421 (goit-dev6)

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance summary Info

Instance ID  
i-01102ced13978a421 (goit-dev6)

IPv6 address  
—

Hostname type  
IP name: ip-172-30-0-209.ca-central-1.compute.internal

Public IPv4 address  
3.99.181.248 | open address

Instance state  
Running

Private IP DNS name (IPv4 only)  
ip-172-30-0-209.ca-central-1.compute.internal

Private IPv4 addresses  
172.30.0.209

Public IPv4 DNS  
ec2-3-99-181-248.ca-central-1.compute.amazonaws.com | open address

Elastic IP addresses

Копіюємо команду з допомогою якої ми будемо підключатися до сервера

EC2 > Instances > i-01102ced13978a421 > Connect to instance

## Connect to instance Info

Connect to your instance i-01102ced13978a421 (goit-dev6) using any of these options

EC2 Instance Connect

Session Manager

**SSH client**

EC2 serial console

Instance ID  
i-01102ced13978a421 (goit-dev6)

- Open an SSH client.
- Locate your private key file. The key used to launch this instance is goit-aws-dev6.pem
- Run this command, if necessary, to ensure your key is not publicly viewable.  
chmod 400 goit-aws-dev6.pem
- Connect to your instance using its Public DNS:  
ec2-3-99-181-248.ca-central-1.compute.amazonaws.com



Example:

```
ssh -i "goit-aws-dev6.pem" ec2-user@ec2-3-99-181-248.ca-central-1.compute.amazonaws.com
```

**Note:** In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

В папці з цифровим ключем відкриваємо термінал Windows PowerShell і виконуємо команду

```
> aws_conn
```

Ім'я	Дата змінення	Тип	Розмір
 goit-aws-dev6.pem	17.12.2022 21:26	Файл PEM	2 КБ
 goit-java-dev-hw8-0.0.1-SNAPSHOT.war	17.12.2022 23:18	Файл WAR	49 081 КБ

```
PS C:\aws_conn> ssh -i "goit-aws-dev6.pem" ec2-user@ec2-3-99-181-248.ca-central-1.compute.amazonaws.com

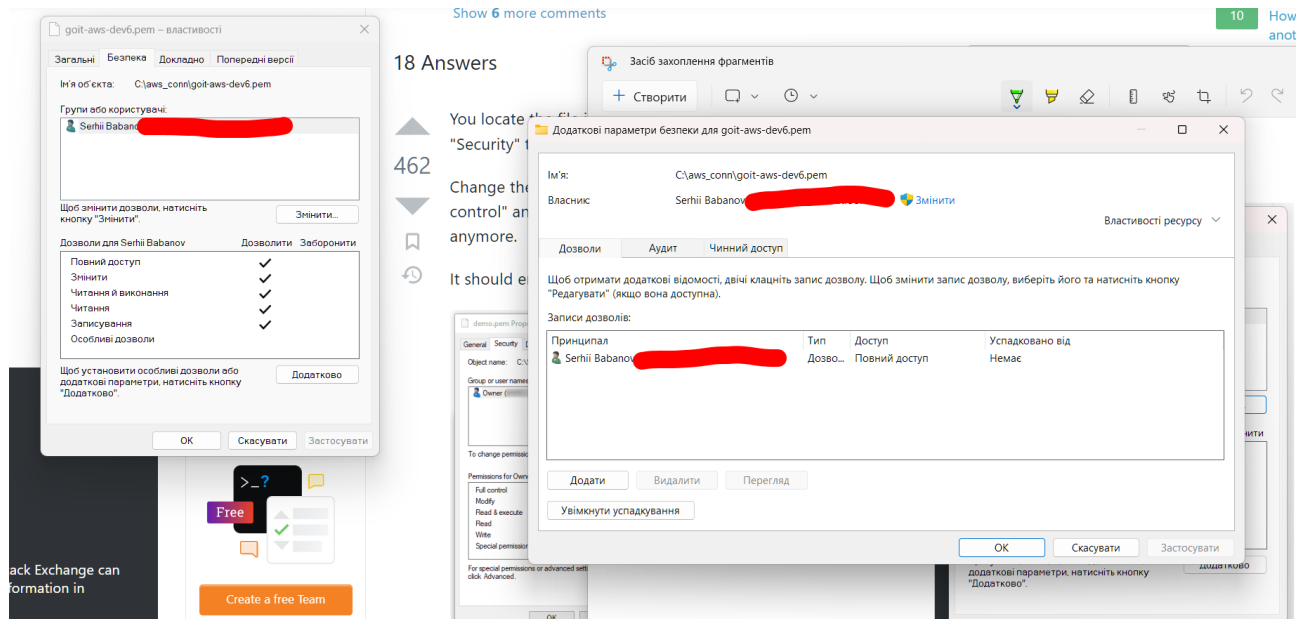
__|  __|_ )
_| (  /  Amazon Linux 2 AMI
---|\---|---
```

<https://aws.amazon.com/amazon-linux-2/>  
[ec2-user@ip-172-30-0-209 ~]\$

## Створюємо папку tmp

```
mkdir tmp
```

Якщо пише що ключ має заширокі права доступу і не дійсний, змінюємо власника ключа на поточного користувача.



Виводимо лист доступних пакетів для встановлення java

yum list java\*

```
ec2-user@ip-172-30-0-209:~  
[ec2-user@ip-172-30-0-209 ~]$ yum list java*  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Available Packages  
java-1.7.0-openjdk.x86_64 1:1.7.0.321-2.6.28.2.amzn2.0.1 amzn2-core  
java-1.7.0-openjdk-accessibility.x86_64 1:1.7.0.321-2.6.28.2.amzn2.0.1 amzn2-core  
java-1.7.0-openjdk-demo.x86_64 1:1.7.0.321-2.6.28.2.amzn2.0.1 amzn2-core  
java-1.7.0-openjdk-devel.x86_64 1:1.7.0.321-2.6.28.2.amzn2.0.1 amzn2-core  
java-1.7.0-openjdk-headless.x86_64 1:1.7.0.321-2.6.28.2.amzn2.0.1 amzn2-core  
java-1.7.0-openjdk-javadoc.noarch 1:1.7.0.321-2.6.28.2.amzn2.0.1 amzn2-core  
java-1.7.0-openjdk-src.x86_64 1:1.7.0.321-2.6.28.2.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-accessibility.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-accessibility-debug.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-debug.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-demo.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-demo-debug.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-devel.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-devel-debug.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-headless.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-headless-debug.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-javadoc.noarch 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-javadoc-debug.noarch 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-javadoc-zip.noarch 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-javadoc-zip-debug.noarch 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-src.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-1.8.0-openjdk-src-debug.x86_64 1:1.8.0.342.b07-1.amzn2.0.1 amzn2-core  
java-11-amazon-corretto.x86_64 1:11.0.17+8-1.amzn2 amzn2-core  
java-11-amazon-corretto-headless.x86_64 1:11.0.17+8-1.amzn2 amzn2-core  
java-11-amazon-corretto-javadoc.x86_64 1:11.0.17+8-1.amzn2 amzn2-core  
java-17-amazon-corretto.x86_64 1:17.0.5+8-1.amzn2.1 amzn2-core  
java-17-amazon-corretto-devel.x86_64 1:17.0.5+8-1.amzn2.1 amzn2-core  
java-17-amazon-corretto-headless.x86_64 1:17.0.5+8-1.amzn2.1 amzn2-core  
java-17-amazon-corretto-javadoc.x86_64 1:17.0.5+8-1.amzn2.1 amzn2-core  
java-17-amazon-corretto-jmods.x86_64 1:17.0.5+8-1.amzn2.1 amzn2-core  
java-atk-wrapper.x86_64 0:30.4-5.amzn2.0.2 amzn2-core  
java_cup.noarch 1:0.11a-16.1.amzn2 amzn2-core  
java_cup-javadoc.noarch 1:0.11a-16.1.amzn2 amzn2-core  
java_cup-manual.noarch 1:0.11a-16.1.amzn2 amzn2-core  
javacc.noarch 5:0-10.1.amzn2 amzn2-core  
javacc-demo.noarch 5:0-10.1.amzn2 amzn2-core  
javacc-javadoc.noarch 5:0-10.1.amzn2 amzn2-core  
javacc-manual.noarch 5:0-10.1.amzn2 amzn2-core  
javacc-maven-plugin.noarch 2:6-17.amzn2 amzn2-core  
javacc-maven-plugin-javadoc.noarch 2:6-17.amzn2 amzn2-core  
javamail.noarch 1:4.6-8.amzn2 amzn2-core  
javamail-javadoc.noarch 1:4.6-8.amzn2 amzn2-core  
javapackages-tools.noarch 3:4.1-11.amzn2 amzn2-core  
javassist.noarch 3:16.1-10.amzn2 amzn2-core  
javassist-javadoc.noarch 3:16.1-10.amzn2 amzn2-core  
[ec2-user@ip-172-30-0-209 ~]$ |
```

Встановлюємо доступну java

`sudo yum install java-17-amazon-corretto.x86_64`

Де необхідно вводимо yes

```
ec2-user@ip-172-30-0-209:~  
[ec2-user@ip-172-30-0-209 ~]$ clear  
[ec2-user@ip-172-30-0-209 ~]$ sudo yum install java-17-amazon-corretto.x86_64  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
amzn2-core | 3.7 kB 00:00:00  
Resolving Dependencies  
--> Running transaction check  
--> Package java-17-amazon-corretto.x86_64 1:17.0.5+8-1.amzn2.1 will be installed  
--> Processing Dependency: java-17-amazon-corretto-headless(x86-64) = 1:17.0.5+8-1.amzn2.1 for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: giflib for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: libXtst for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: libXrandr for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: libXrender for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: libXt for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: libXinerama for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: libXi for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: libX11 for package: 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64  
--> Running transaction check  
--> Package giflib.x86_64 0:4.1.6-9.amzn2.0.2 will be installed  
--> Processing Dependency: libSM.so.6()(64bit) for package: giflib-4.1.6-9.amzn2.0.2.x86_64  
--> Processing Dependency: libICE.so.6()(64bit) for package: giflib-4.1.6-9.amzn2.0.2.x86_64  
--> Package java-17-amazon-corretto-headless.x86_64 1:17.0.5+8-1.amzn2.1 will be installed  
--> Processing Dependency: log4j-cve-2021-44228-cve-mitigations for package: 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: alsa-lib for package: 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: dejavu-sans-mono-fonts for package: 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: dejavu-serif-fonts for package: 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: dejavu-sans-fonts for package: 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: fontconfig for package: 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64  
--> Processing Dependency: jpackage-utils for package: 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64  
--> Package libX11.x86_64 0:1.6.7-3.amzn2.0.2 will be installed  
--> Processing Dependency: libX11-common >= 1.6.7-3.amzn2.0.2 for package: libX11-1.6.7-3.amzn2.0.2.x86_64  
--> Processing Dependency: libxcb.so.1()(64bit) for package: libX11-1.6.7-3.amzn2.0.2.x86_64  
--> Package libXi.x86_64 0:1.7.9-1.amzn2.0.2 will be installed  
--> Processing Dependency: libXext.so.6()(64bit) for package: libXi-1.7.9-1.amzn2.0.2.x86_64  
--> Package libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2 will be installed  
--> Package libXrandr.x86_64 0:1.5.1-2.amzn2.0.3 will be installed  
--> Package libXrender.x86_64 0:0.9.10-1.amzn2.0.2 will be installed  
--> Package libXt.x86_64 0:1.1.5-3.amzn2.0.2 will be installed  
--> Package libXtst.x86_64 0:1.2.3-1.amzn2.0.2 will be installed  
--> Running transaction check  
--> Package alsa-lib.x86_64 0:1.1.4.1-2.amzn2 will be installed  
--> Package dejavu-sans-fonts.noarch 0:2.33-6.amzn2 will be installed  
--> Processing Dependency: dejavu-fonts-common = 2.33-6.amzn2 for package: dejavu-sans-fonts-2.33-6.amzn2.noarch  
--> Package dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 will be installed  
--> Package dejavu-serif-fonts.noarch 0:2.33-6.amzn2 will be installed  
--> Package fontconfig.x86_64 0:2.13.0-4.3.amzn2 will be installed  
--> Processing Dependency: fontpackages-filesystem for package: fontconfig-2.13.0-4.3.amzn2.x86_64  
--> Package javapackages-tools.noarch 0:3.4.1-11.amzn2 will be installed  
--> Processing Dependency: python-javapackages = 3.4.1-11.amzn2 for package: javapackages-tools-3.4.1-11.amzn2.noarch  
--> Processing Dependency: libxslt for package: javapackages-tools-3.4.1-11.amzn2.noarch  
--> Package libICE.x86_64 0:1.0.9-9.amzn2.0.2 will be installed  
--> Package libSM.x86_64 0:1.2.2-2.amzn2.0.2 will be installed
```

```
ec2-user@ip-172-30-0-209:~  
Created symlink from /etc/systemd/system/multi-user.target.wants/log4j-cve-2021-44228-hotpatch.service to /usr/lib/syste  
md/systemd/log4j-cve-2021-44228-hotpatch.service.  
Installing : 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64 27/28  
Installing : 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64 28/28  
Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch 1/28  
Verifying : python-lxml-3.2.1-4.amzn2.0.3.x86_64 2/28  
Verifying : fontpackages-filesystem-1.44-8.amzn2.noarch 3/28  
Verifying : 1:java-17-amazon-corretto-headless-17.0.5+8-1.amzn2.1.x86_64 4/28  
Verifying : libxcb-1.12-1.amzn2.0.2.x86_64 5/28  
Verifying : libXrandr-1.5.1-2.amzn2.0.3.x86_64 6/28  
Verifying : libXext-1.3.3-3.amzn2.0.2.x86_64 7/28  
Verifying : libX11-1.6.7-3.amzn2.0.2.x86_64 8/28  
Verifying : log4j-cve-2021-44228-hotpatch-1.3-7.amzn2.noarch 9/28  
Verifying : 1:java-17-amazon-corretto-17.0.5+8-1.amzn2.1.x86_64 10/28  
Verifying : libXi-1.7.9-1.amzn2.0.2.x86_64 11/28  
Verifying : libX11-common-1.6.7-3.amzn2.0.2.noarch 12/28  
Verifying : dejavu-fonts-common-2.33-6.amzn2.noarch 13/28  
Verifying : libXau-1.0.8-2.1.amzn2.0.2.x86_64 14/28  
Verifying : libSM-1.2.2-2.amzn2.0.2.x86_64 15/28  
Verifying : libXrender-0.9.10-1.amzn2.0.2.x86_64 16/28  
Verifying : dejavu-sans-fonts-2.33-6.amzn2.noarch 17/28  
Verifying : fontconfig-2.13.0-4.3.amzn2.x86_64 18/28  
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 19/28  
Verifying : giflib-4.1.6-9.amzn2.0.2.x86_64 20/28  
Verifying : libXinerama-1.1.3-2.1.amzn2.0.2.x86_64 21/28  
Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 22/28  
Verifying : libxslt-1.1.28-6.amzn2.x86_64 23/28  
Verifying : python-javapackages-3.4.1-11.amzn2.noarch 24/28  
Verifying : libXtst-1.2.3-1.amzn2.0.2.x86_64 25/28  
Verifying : alsa-lib-1.1.4-1-2.amzn2.x86_64 26/28  
Verifying : libICE-1.0.9-9.amzn2.0.2.x86_64 27/28  
Verifying : javapackages-tools-3.4.1-11.amzn2.noarch 28/28  
  
Installed:  
java-17-amazon-corretto.x86_64 1:17.0.5+8-1.amzn2.1  
  
Dependency Installed:  
alsa-lib.x86_64 0:1.1.4-1-2.amzn2  
dejavu-sans-fonts.noarch 0:2.33-6.amzn2  
dejavu-serif-fonts.noarch 0:2.33-6.amzn2  
fontpackages-filesystem.noarch 0:1.44-8.amzn2  
java-17-amazon-corretto-headless.x86_64 1:17.0.5+8-1.amzn2.1  
libICE.x86_64 0:1.0.9-9.amzn2.0.2  
libX11.x86_64 0:1.6.7-3.amzn2.0.2  
libXau.x86_64 0:1.0.8-2.1.amzn2.0.2  
libXi.x86_64 0:1.7.9-1.amzn2.0.2  
libXrandr.x86_64 0:1.5.1-2.amzn2.0.3  
libXt.x86_64 0:1.1.5-3.amzn2.0.2  
libxcb.x86_64 0:1.12-1.amzn2.0.2  
log4j-cve-2021-44228-hotpatch.noarch 0:1.3-7.amzn2  
python-lxml.x86_64 0:3.2.1-4.amzn2.0.3  
dejavu-fonts-common.noarch 0:2.33-6.amzn2  
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2  
fontconfig.x86_64 0:2.13.0-4.3.amzn2  
giflib.x86_64 0:4.1.6-9.amzn2.0.2  
javapackages-tools.noarch 0:3.4.1-11.amzn2  
libSM.x86_64 0:1.2.2-2.amzn2.0.2  
libX11-common.noarch 0:1.6.7-3.amzn2.0.2  
libXext.x86_64 0:1.3.3-3.amzn2.0.2  
libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2  
libXrender.x86_64 0:0.9.10-1.amzn2.0.2  
libXtst.x86_64 0:1.2.3-1.amzn2.0.2  
libxslt.x86_64 0:1.1.28-6.amzn2  
python-javapackages.noarch 0:3.4.1-11.amzn2  
  
Complete!  
[ec2-user@ip-172-30-0-209 ~]$ |
```

Додаємо в профіль aws в ідеї сервер порт 80

```
application-aws.properties x application-local.properties x application.properties x V1_init.sql x V3_add_UserRoles_and_default_admin.sql x dml.sql x  
1 spring.datasource.url=jdbc:postgresql://database-1.cqumemj0zjk3.ca-central-1.rds.amazonaws.com:5432/postgres  
2 spring.datasource.username=postgres  
3 spring.datasource.password=postgres  
4 server.port=80  
5
```

Виконуємо clean – install. Копіюємо war файл в папку з ключом для доступу до сервера



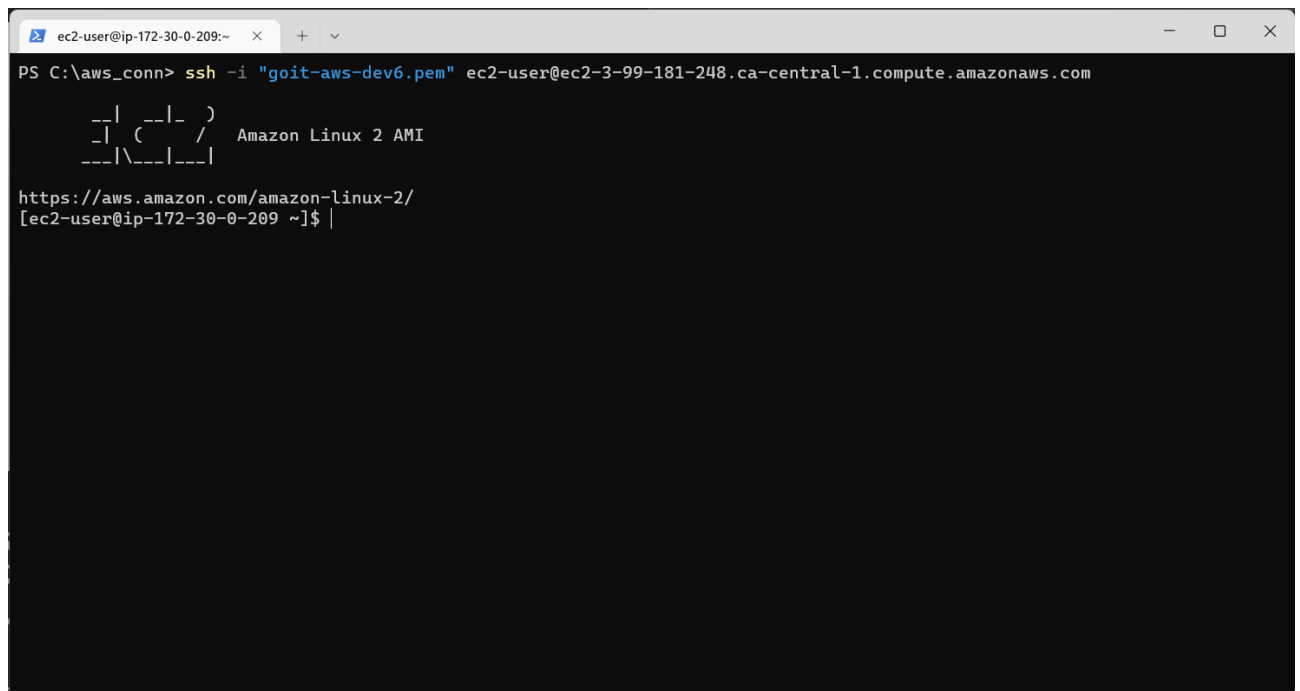
Ім'я	Дата змінення	Тип	Розмір
goit-aws-dev6.pem	17.12.2022 21:26	Файл PEM	2 КБ
goit-java-dev-hw8-0.0.1-SNAPSHOT.war	15.12.2022 12:54	Файл WAR	49 080 КБ

Відкриваємо тут термінал і вводимо команду для копіювання файлу на сервер

`scp -i "goit-aws-dev6.pem" goit-java-dev-hw8-0.0.1-SNAPSHOT.war ec2-user@ec2-3-99-181-248.ca-central-1.compute.amazonaws.com:tmp/`



Потім підключаємося до сервера

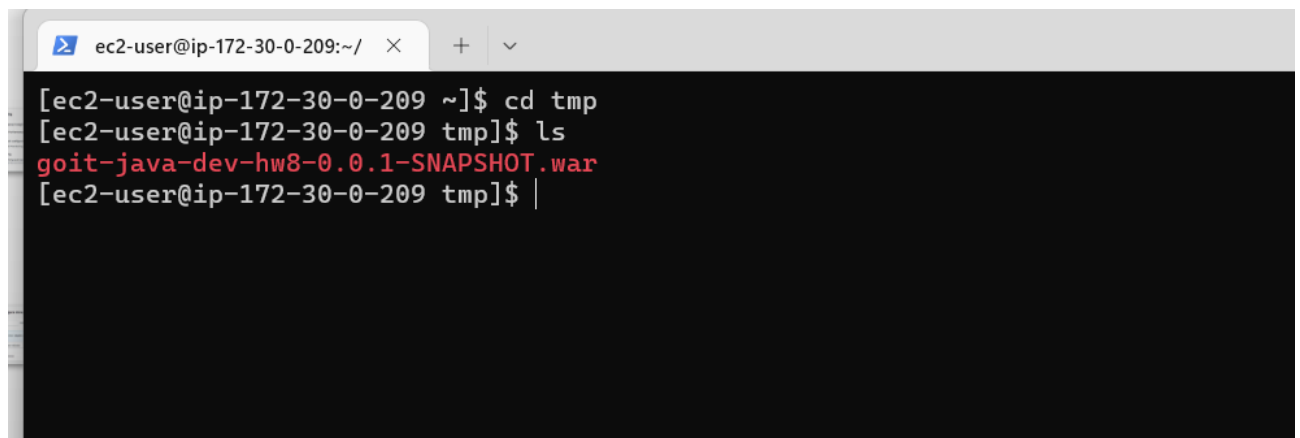


```
PS C:\aws_conn> ssh -i "goit-aws-dev6.pem" ec2-user@ec2-3-99-181-248.ca-central-1.compute.amazonaws.com

__|  __|_ )
_| (  /   Amazon Linux 2 AMI
---|\\---|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-30-0-209 ~]$ |
```

Переходимо в папку tmp і перевіряємо що файл скопійовано



```
[ec2-user@ip-172-30-0-209 ~]$ cd tmp
[ec2-user@ip-172-30-0-209 tmp]$ ls
goit-java-dev-hw8-0.0.1-SNAPSHOT.war
[ec2-user@ip-172-30-0-209 tmp]$ |
```



## Спробуємо виконати

[illegible]

Тут вибиває помилку підключення до бази даних. Щоб її усунути, треба дозволити доступ з ір адреси віртуального сервера до бази даних. Я додав дві адреси, приватну і публічну.

EC2

Instances > i-01102ced13978a421

### Instance summary for i-01102ced13978a421 (goit-dev6) Info

Updated less than a minute ago

Instance ID

i-01102ced13978a421 (goit-dev6)

IPv6 address

—

Hostname type

IP name: ip-172-30-0-209.ca-central-1.compute.internal

Answer private resource DNS name

IPv4 (A)

Auto-assigned IP address

5.99.181.248 [Public IP]

IAM Role

—

Public IPv4 address

5.99.181.248 | [open address](#)

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-30-0-209.ca-central-1.compute.internal

Instance type

t2.micro

VPC ID

vpc-0ax0236fb02b5c381 | [open](#)

Subnet ID

subnet-0068a85e4e4450ef4 | [open](#)

Private IPv4 addresses

172.30.0.209

Public IPv4 DNS

ec2-5-99-181-248.ca-central-1.compute.amazonaws.com | [open address](#)

Elastic IP addresses

—

AWS Compute Optimizer finding

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Auto Scaling Group name

—

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

RDS > Databases > database-1

database-1

Summary

DB identifier

database-1

CPU

3.64%

Status

Available

Class

db.t3.mi

Role

Instance

Current activity

0 Connections

Engine

PostgreSQL

Region

ca-central-1

Connectivity & security

Monitoring

Logs & events

Configuration

Maintenance & backups

Tags

Connectivity & security

Endpoint & port

Endpoint

database-1.cqumenj0zjk3.ca-central-1.rds.amazonaws.com

Port

5432

Networking

Availability Zone

ca-central-1b

VPC

vpc-0ac0236fb02b5c381

Security

VPC security groups

PostgresDB (sg-020de181d80f895b2)

Active

Publicly accessible

Yes

Security Groups (1/1)

Filter security groups

search: sg-020de181d80f895b2

Clear filters

Actions

Export security groups to CSV

Create security group

Name	Security group ID	Security group name	VPC ID	Description	Owner	Inbound rules count	Outbound rules count
-	sg-020de181d80f895b2	PostgresDB	vpc-0ac0236fb02b5c381	Created by RDS manag...	767359459482	1 Permission entry	1 Permission entry

sg-020de181d80f895b2 - PostgresDB

Details

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (1/1)

Filter security group rules

Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
-	sgr-05cf67dc5d58b07a5	IPv4	PostgreSQL	TCP	5432	99.211.2.207/32	-

EC2 > Security Groups > sg-020de181d80f895b2 - PostgresDB > Edit inbound rules

Edit inbound rules

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

Inbound rules

Security group rule ID

Type

Protocol

Port range

Source

Description - optional

sg-05cf67dc5d58b07a5

PostgreSQL

TCP

5432

Custom

99.211.2.207/32

Delete

sg-019d5b7b6b922c7f7

PostgreSQL

TCP

5432

Custom

3.99.181.248/32

Delete

sg-020be523315924481

PostgreSQL

TCP

5432

Custom

172.30.0.209/32

Delete

Add rule

Cancel







Preview changes

Save rules

Через дві хвилини знову пробуємо запустити додаток на сервері. В мене зміни примінилися не моментально, успішний запуск вдався за дві хвилини, хоча при видаленні адреси з дозволених доступ пропадав відразу.



Перевіряємо що додаток доступний і працює.

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Щоб при закритті консолі програма не закривалася, запускаємо її в фоновому режимі командою

```
sudo nohup java -Dspring.profiles.active=aws -jar goit-java-dev-hw8-0.0.1-SNAPSHOT.war
```

```
[ec2-user@ip-172-30-0-209 tmp]$ nohup java -Dspring.profiles.active=aws -jar goit-java-dev-hw8-0.0.1-SNAPSHOT.war
nohup: ignoring input and appending output to 'nohup.out'
[ec2-user@ip-172-30-0-209 tmp]$ |
```

При перепідключенні до сервера при необхідності вимкнути фонову задачу виводимо список всіх задач командою

```
ps -ef
```

Дивимось на PID нашого процесу і вбиваємо його командою

```
sudo kill PID
```

```
root      10728      2  0  04:04 ?        00:00:00 [kworker/0:4-cgr]
root      10875      2  0  04:04 ?        00:00:00 [kworker/u30:2-e]
postfix   12765    3069  0  04:10 ?        00:00:00 pickup -l -t unix -u
root      15208      1  0  04:16 ?        00:00:00 sudo java -Dspring.profiles.active=aws -jar goit-java-dev-hw8-0.0.1-SNAP
root      15211  15208  3  04:16 ?        00:00:18 java -Dspring.profiles.active=aws -jar goit-java-dev-hw8-0.0.1-SNAPSHOT.
root      15577      2  0  04:16 ?        00:00:00 [kworker/0:2-cgr]
root      18380   3220  0  04:21 ?        00:00:00 sshd: ec2-user [priv]
ec2-user  18398  18380  0  04:21 ?        00:00:00 sshd: ec2-user@pts/1
ec2-user  18399  18398  0  04:21 pts/1    00:00:00 -bash
root      18553      2  0  04:22 ?        00:00:00 [kworker/0:0-mm_]
root      18752      2  0  04:22 ?        00:00:00 [kworker/0:1-cgr]
root      19089      2  0  04:22 ?        00:00:00 [kworker/0:3-eve]
root      21458      1  0  04:25 ?        00:00:00 /bin/bash /usr/bin/log4j-cve-2021-44228-hotpatch -w 1800 -m 10
root      22158  21458  0  04:25 ?        00:00:00 sleep 1
ec2-user  22159  18399  0  04:25 pts/1    00:00:00 ps -ef
root      32346      2  0  03:35 ?        00:00:00 [kworker/u30:1-e]
[ec2-user@ip-172-30-0-209 tmp]$ sudo kill 15208
[ec2-user@ip-172-30-0-209 tmp]$ ps -ef
```

```
sudo tail -f -n1000 nohup.out
```

Вийти з перегляду можна натиснувши **cntr + c**

<https://youtu.be/1-CKqngg6GY>