



**AWS EC2**

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## Spring Boot Application on AWS EC2

### Create a Spring Boot Application

- <https://start.spring.io/>
- Dependencies
  - Spring Web
  - Generate
  - Unzip the file
  - Use IntelliJ to open it
- Open the terminal in your IntelliJ
- Write the following commands for Windows:
  - \$Env:JAVA\_HOME = "C:\Program Files\Java\jdk-21"
  - .mvnw.cmd clean package

### Create a repository

- Need it for later

### Step Up an Amazon EC2 Instance:

- Log in to the AWS Management Console.
- Navigate to the EC2 dashboard.
- Launch a new EC2 Instance:
  - Choose an Amazon Machine Image (Ubuntu)
  - Choose the Free tier eligible
  - Keep the instance type as Free tier eligible
  - Create a new key pair
    - Give it a name
    - Key pair type(RSA)
    - Private key file format(.ppk)
    - Create key pair
  - Inside the Network setting
    - Create security group
    - Allow all the following rules
  - Inside the Configure storage
    - Keep it default
    - Or chose any volume you want
  - Lunch instance

### Connect to Your EC2 Instance:

- Write the following commands
  - sudo su (super user)
  - yum install git
  - will ask you for installed size, type y for yes
  - git clone (your GitHub repository you've created)
  - ls
  - cd (directory name)
  - java -version (to check if you already has one installed)
  - open this link: <https://docs.aws.amazon.com/corretto/latest/corretto-21-ug/generic-linux-install.html>

- `wget -O - https://apt.corretto.aws/corretto.key | sudo gpg --dearmor -o /usr/share/keyrings/corretto-keyring.gpg && \`
- `echo "deb [signed-by=/usr/share/keyrings/corretto-keyring.gpg] https://apt.corretto.aws stable main" | sudo tee /etc/apt/sources.list.d/corretto.list`
- `sudo apt-get update; sudo apt-get install -y java-21-amazon-corretto-jdk`
- `java -version`
- `java -jar (the name of the app).jar`

### Configure Security Groups:

- Go to your instances
- Press on your instance and Security
- Security groups
- Press on the long number starts with sg-\*\*\*\*\*
- Edit inbound rules
- Add rule
- Type
  - Custom TCP
- Protocol Info
  - TCP
- Port range
  - 8080
- Source Info
  - Custom
- Save rules

### How to run

- Go back to your instances
- Press on Instance ID
- Copy the Public IPv4 address
- Open your browser
- Paste your Public IPv4 address:8080/your endpoint

