AWS
Web App in Cloud

amazon EC2

Easy

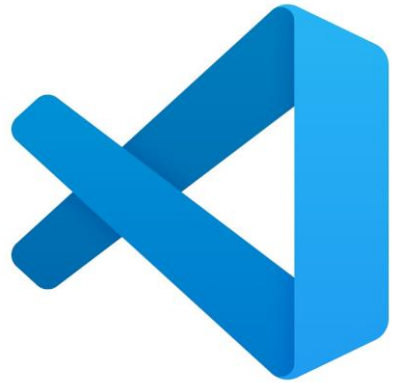
Free

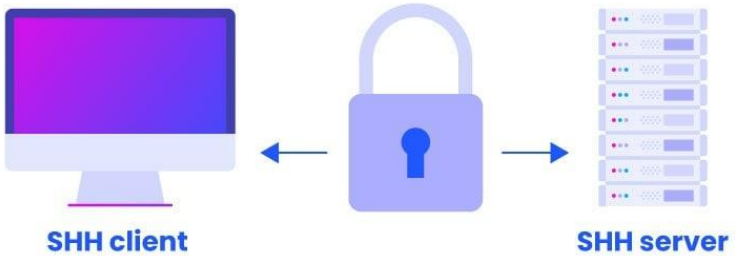
Topics:

EC2

VS Code

SSH





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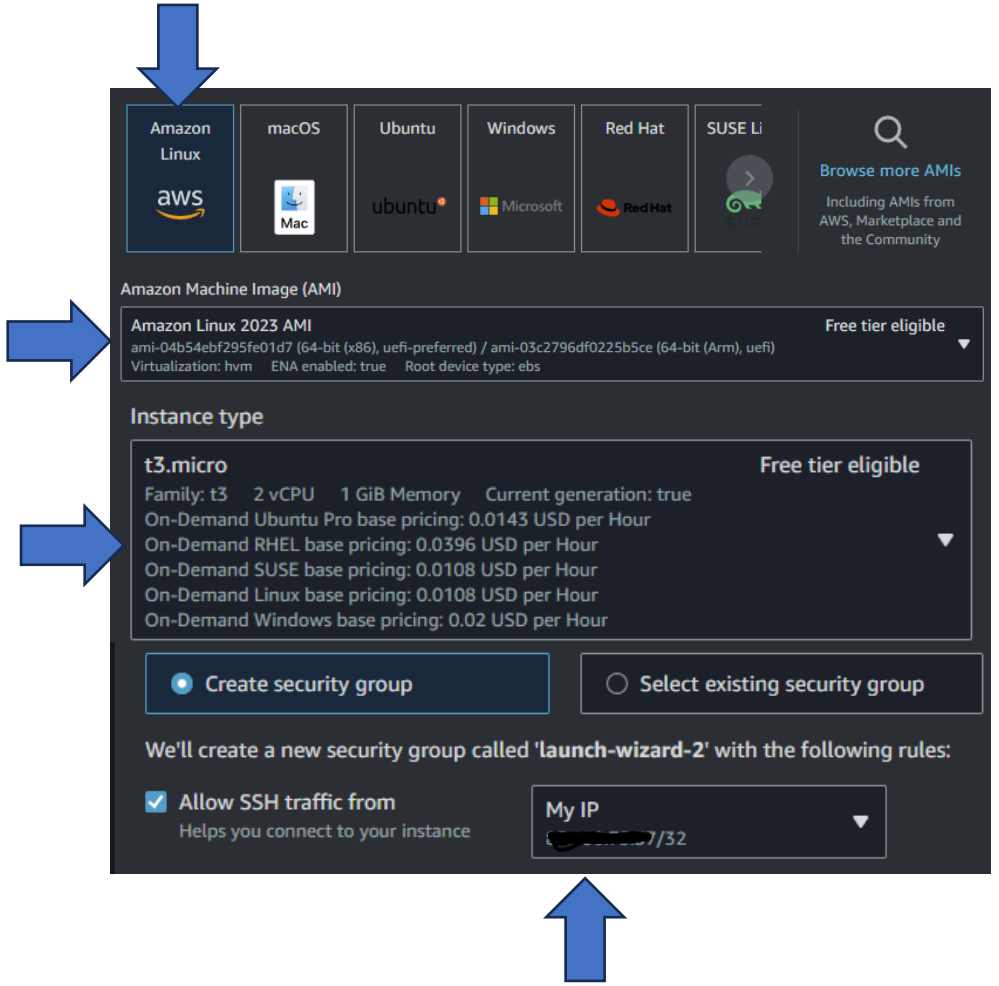
Create AWS EC2 Instance

- Create an EC2 Instance
  1. Pick a name
  2. OS: Amazon Linux-
     - Amazon Linux 2023 AMI (Free)
  3. Instance type
     - t3.micro (Free)
  4. Key Pair Login- Create ne key pair
     - Name, RSA, (.pem) – A file will be downloaded
  5. Network Settings: Allow SSH from
     - My IP
  6. Create the EC2 Instance



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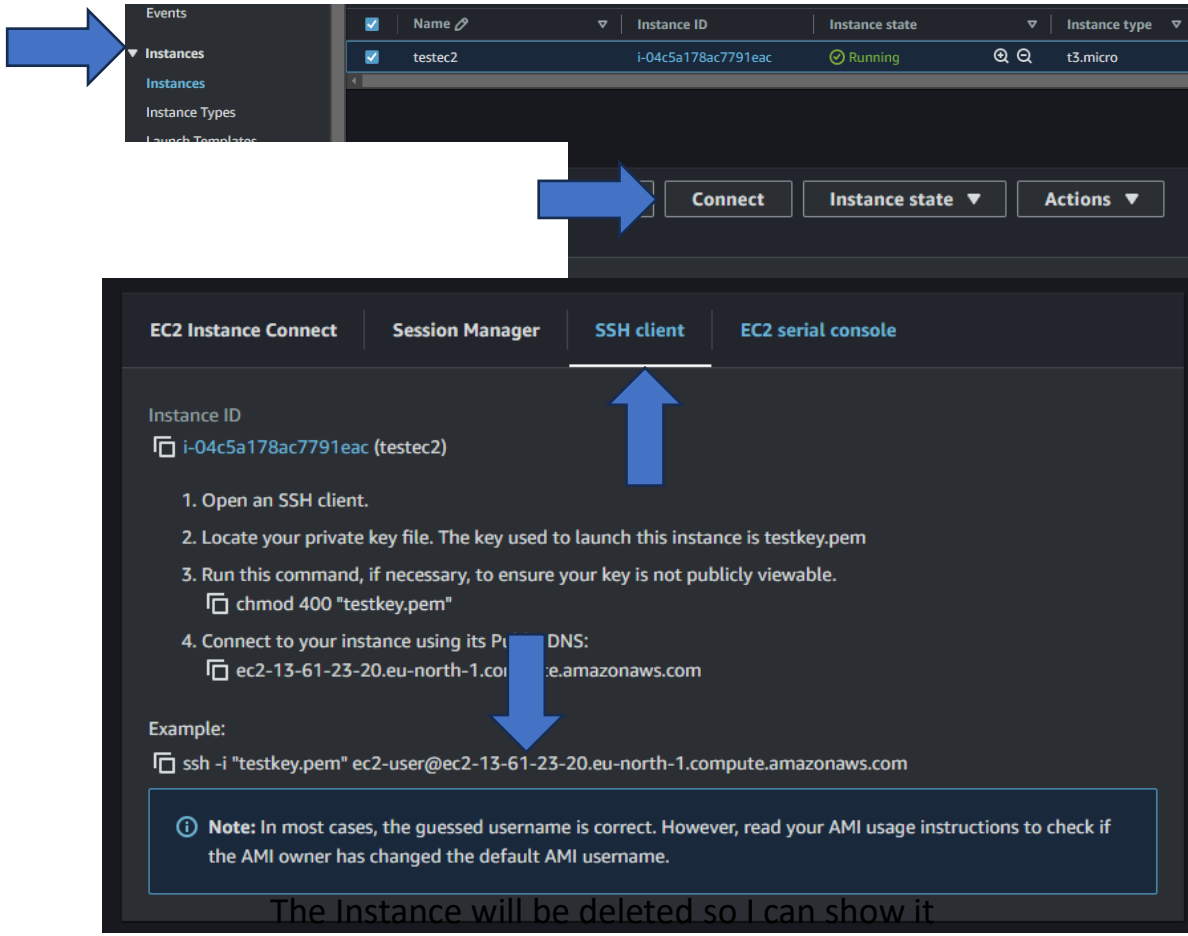
Getting started with SSH

- In the Instance label, pick your instance
- On the top right, click “Connect”
- Pick the “SSH Client” Option
- Copy the example:
  - *ssh -i ”</path/to/file.pem>" ec2-user@ec2-<Publie-IPv4-DNS>.<AZ>.compute.amazonaws.com*



The Instance will be deleted so I can show it

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Connect to EC2 Instance with SSH

- We need to change permissions to the ".pem" file we got from AWS
  - In Linux/MacOS: "***Sudo chmod 400 <fille.pem>***"
  - In Windows: "***icacls "<path/to/file.pem>" /grant:r "<username>:R***"
- Open VS Code Terminal
- Insert the SSH commend
  - ssh -i "</path/to/file.pem>" ec2-user@ec2-<Publie-IPv4-DNS>.<AZ>.compute.amazonaws.com

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Install Apache Maven & Amazon Corretto 8 (JAVA)

- The commands:
  - Apache Maven:
    - *wget https://archive.apache.org/dist/maven/maven-3/3.5.2/binaries/apache-maven-3.5.2-bin.tar.gz*
    - *sudo tar -xzf apache-maven-3.5.2-bin.tar.gz -C /opt*
    - *echo "export PATH=/opt/apache-maven-3.5.2/bin:$PATH" >> ~/.bashrc*
    - *source ~/.bashrc*
  - Amazon Corretto 8 / JAVA
    - *sudo dnf install -y java-1.8.0-amazon-corretto-devel*
    - *export JAVA_HOME=/usr/lib/jvm/java-1.8.0-amazon-corretto.x86_64*
    - *export PATH=/usr/lib/jvm/java-1.8.0-amazon-corretto.x86_64/jre/bin/:$PATH*

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Run Maven

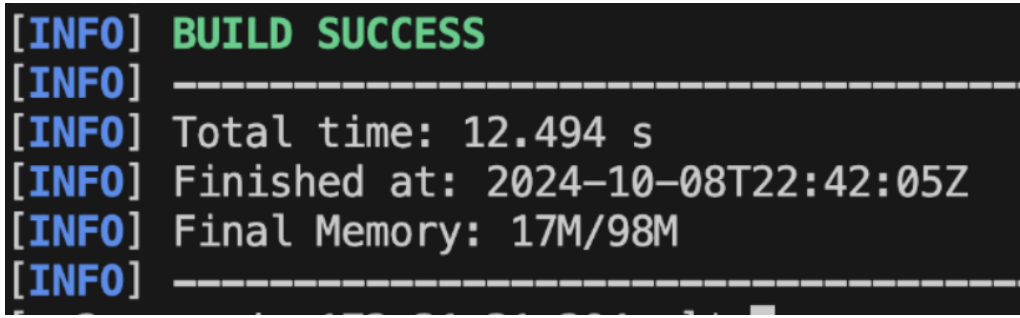
- Run the commends in the VS Code Terminal:
- ***mvn archetype:generate ***

  DgroupId=com.<Name>

  ***DartifactId=<Name> ***

  ***DarchetypeArtifactId=maven-archetype-webapp ***

  DinteractiveMode=false



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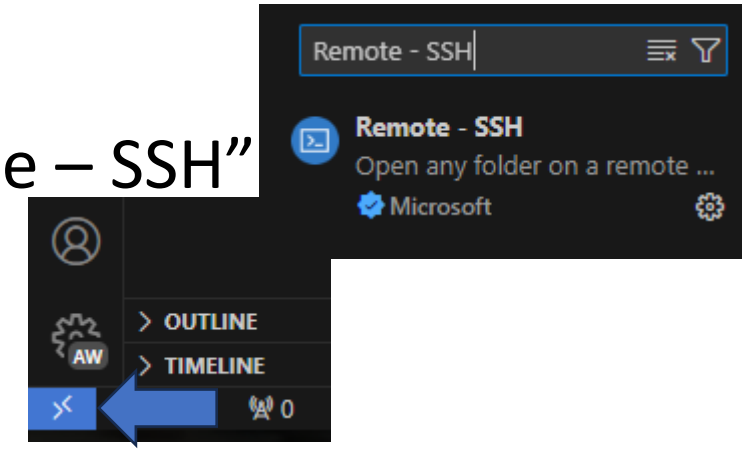
VS Code SSH Connection

- In VS Code download the extension “Remote – SSH”
- Click the blue “><“ on the button left color
- Click “Connect to host”
- Click “+ Add New SSH Host”
- Run the SSH Commend
- Check the “config” file that every thing is correct
- Now we can Connect with SSH




```
Host ec2-13-60-80-233.eu-north-1.compute.amazonaws.com
  HostName ec2-13-60-80-233.eu-north-1.compute.amazonaws.com
  IdentityFile "D:\VS Code\AWS\Website AWS\tested.pem"
  User ec2-user

```

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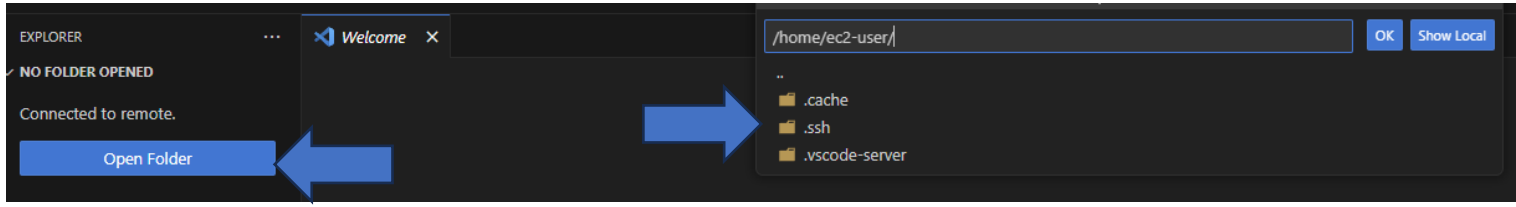
VS Code SSH



- Now you can check the files in the EC2 Instance and edit them or work on the Web app you created with Maven and Amazon Corretto 8.

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