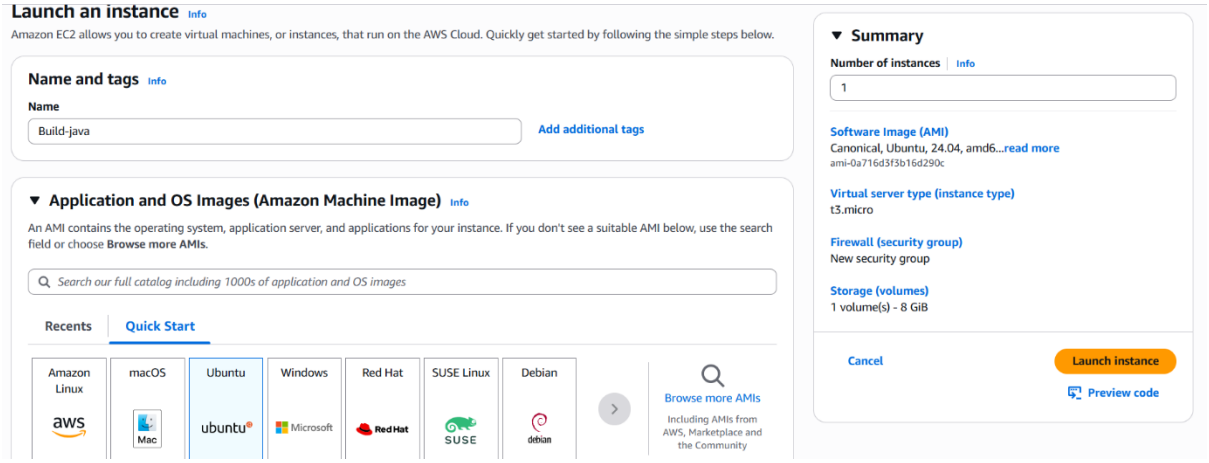
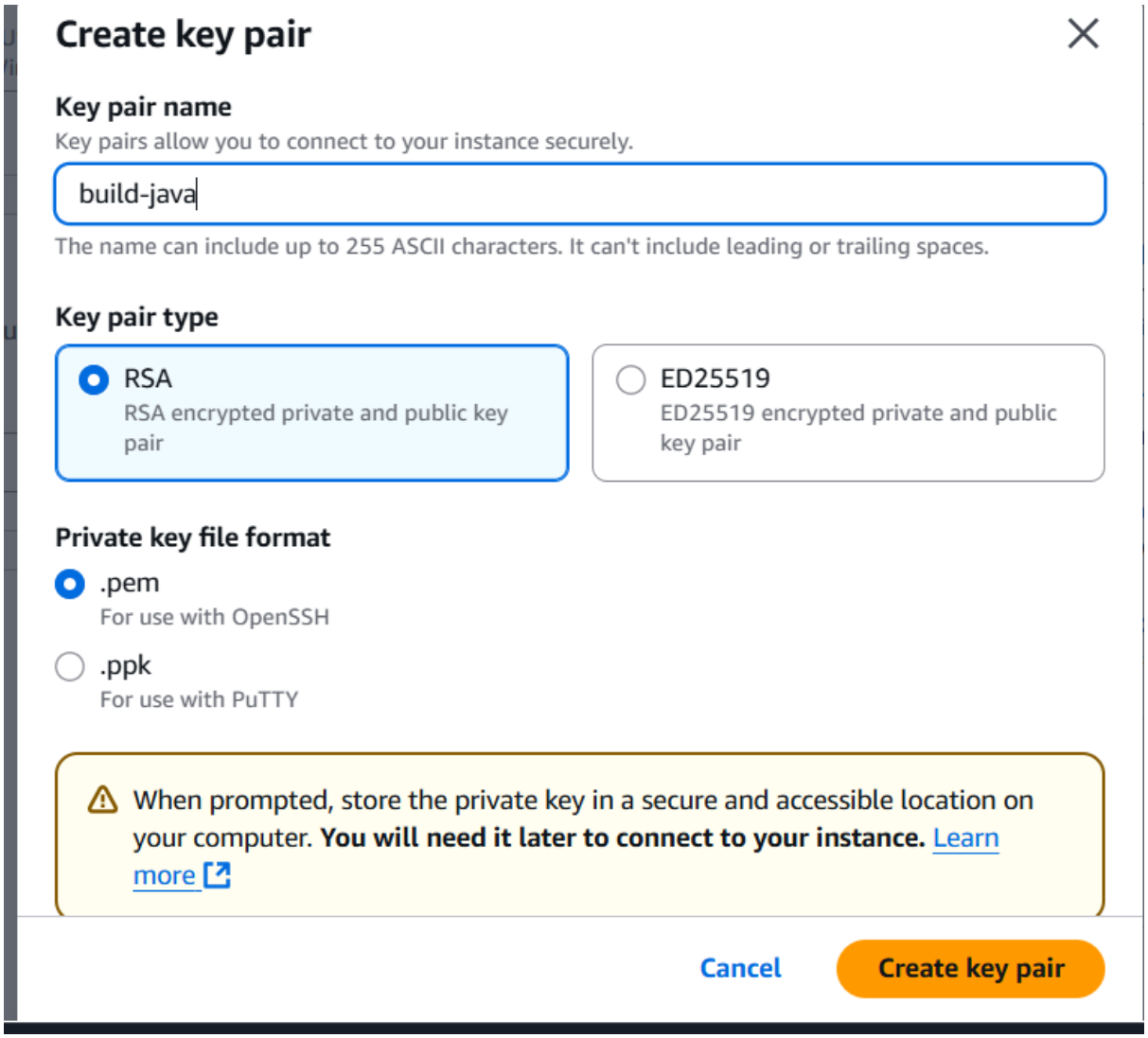
Jboss-Wildfly Deployment

Step:1 (Build server)

*Launch instance name as Build server.



*Create key-pair.



Step 2

*sudo apt update -y

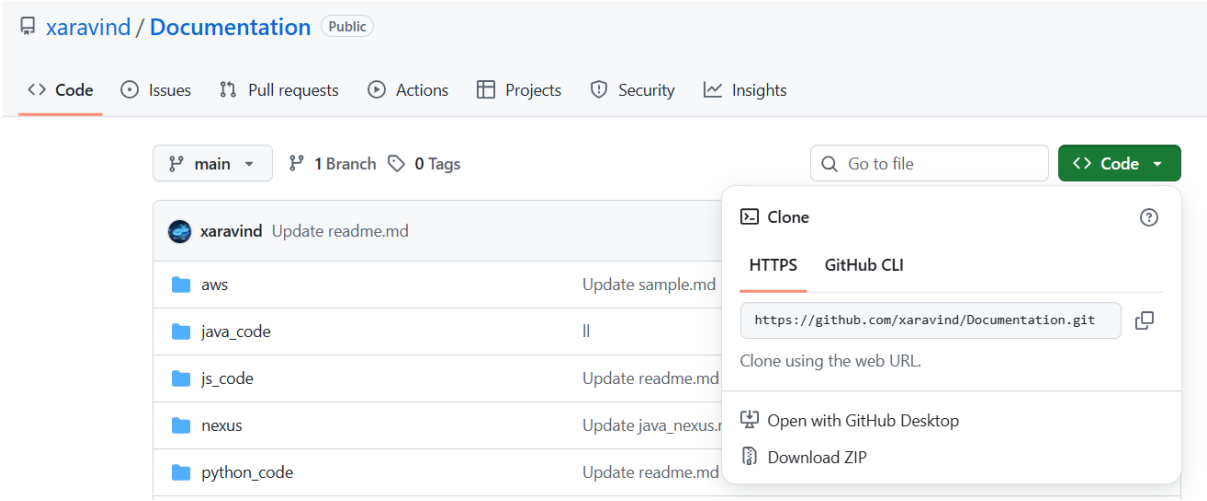
```
/usr/bin/xauth:  file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-16-28:~$ sudo apt update -y
```

*Install java

```
ubuntu@ip-172-31-16-28:~$ java --version
Command 'java' not found, but can be installed with:
sudo apt install openjdk-17-jre-headless  # version 17.0.16+8~us1-0ubuntu1~24.04.1, or
sudo apt install openjdk-21-jre-headless  # version 21.0.8+9~us1-0ubuntu1~24.04.1
sudo apt install default-jre              # version 2:1.17-75
sudo apt install openjdk-11-jre-headless  # version 11.0.28+6-1ubuntu1~24.04.1
sudo apt install openjdk-8-jre-headless   # version 8u462-ga~us1-0ubuntu2~24.04.2
sudo apt install openjdk-19-jre-headless  # version 19.0.2+7-4
sudo apt install openjdk-20-jre-headless  # version 20.0.2+9-1
sudo apt install openjdk-22-jre-headless  # version 22~22ea-1
ubuntu@ip-172-31-16-28:~$ sudo apt install openjdk-17-jre-headless
```

*Install maven

*Clone the code form github.



*git clone

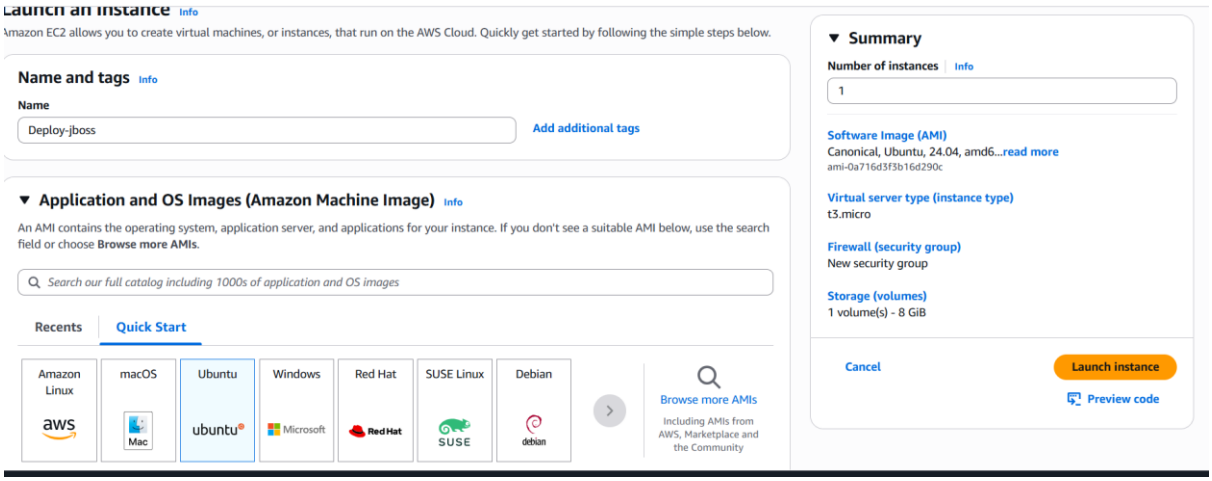
```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-16-28:~$ git clone https://github.com/xaravind/Documentation.git
Cloning into 'Documentation'...
remote: Enumerating objects: 1845, done.
remote: Counting objects: 100% (30/30), done.
remote: Compressing objects: 100% (23/23), done.
remote: Total 1845 (delta 13), reused 1 (delta 1), pack-reused 1815 (from 3)
Receiving objects: 100% (1845/1845), 13.96 MiB | 28.60 MiB/s, done.
```

*mvn package(Build success)

```
[INFO] Packaging webapp
[INFO] Assembling webapp [WebCarRental] in [/home/ubuntu/Documentation/java_code/target/WebC
arRental]
[INFO] Processing war project
[INFO] Copying webapp resources [/home/ubuntu/Documentation/java_code/src/main/webapp]
[INFO] Building war: /home/ubuntu/Documentation/java_code/target/WebCarRental.war
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  29.333 s
[INFO] Finished at: 2025-10-07T11:33:41Z
[INFO] ------------------------------------------------------------------------
ubuntu@ip-172-31-16-28:~/Documentation/java_code$
```

Step-3

*Launch 2nd instance named as Jboss Deploy



- Install jboss-wildfly

```
ubuntu@ip-172-31-20-253:~$ sudo wget https://github.com/wildfly/wildfly/releases/download/38
.0.0.Beta1/wildfly-preview-38.0.0.Beta1.tar.gz
```

*untar jboss-wildfly

```
ubuntu@ip-172-31-20-253:~$ ls
wildfly-preview-38.0.0.Beta1.tar.gz
ubuntu@ip-172-31-20-253:~$ tar -xvf wildfly-preview-38.0.0.Beta1.tar.gz
```

*Rename wildfly.

```
ubuntu@ip-172-31-20-253:~$ ls
wildfly-preview-38.0.0.Beta1  wildfly-preview-38.0.0.Beta1.tar.gz
ubuntu@ip-172-31-20-253:~$ mv wildfly-preview-38.0.0.Beta1 wildfly
ubuntu@ip-172-31-20-253:~$ ls
wildfly  wildfly-preview-38.0.0.Beta1.tar.gz
```

*Start wildfly .

```
domain.conf.ps1      jdr.bat                              wsprovide.sh
ubuntu@ip-172-31-20-253:~/wildfly/bin$ ./standalone.sh -b=0.0.0.0
```

Step-4

*Create ssh-keygen.

*Here pub id will be created copy this keys and paste in wildfly authorized keys.

Step-5

*cd .ssh

*vi authorized keys

```
ubuntu@ip-172-31-16-28:~/.ssh$ ls
authorized_keys  id_ed25519  id_ed25519.pub
ubuntu@ip-172-31-16-28:~/.ssh$ cat id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAICwLa0pEiX+wXSNaDzDJ9gHa4qi4sUg5bldik9fh/7qU ubuntu@ip-1
72-31-16-28
ubuntu@ip-172-31-16-28:~/.ssh$ cd
```

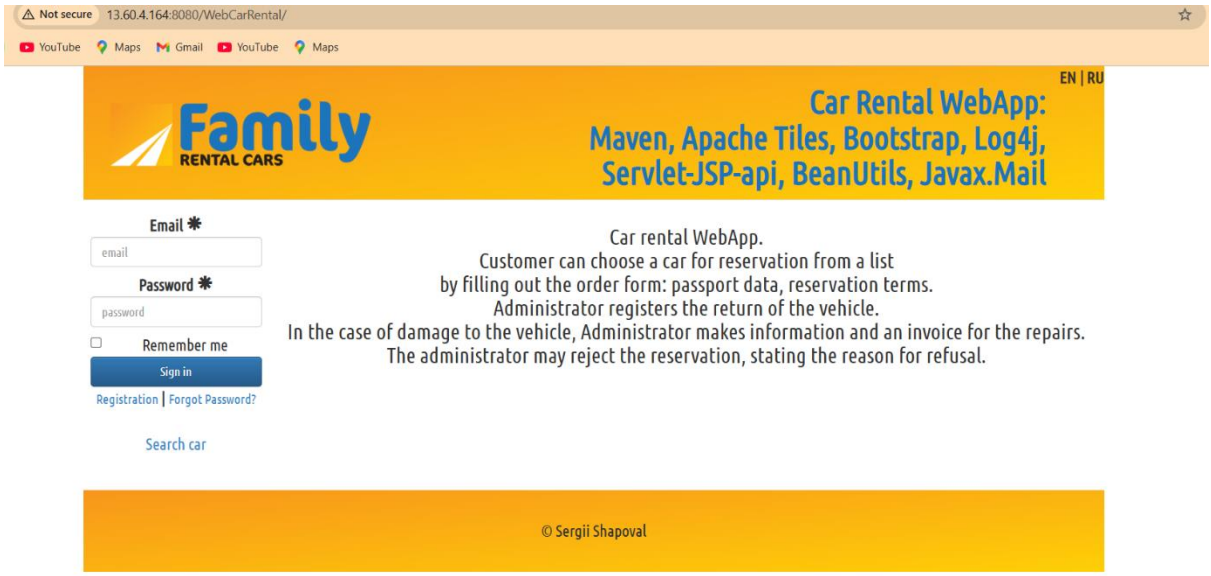
Step-6

*Communicate this two servers by scp

```
ubuntu@ip-172-31-16-28:~/Documentation/java_code/target$ scp /home/ubuntu/Documentation/java
_code/target/*.war ubuntu@13.60.4.164:/home/ubuntu/wildfly/standalone/deployments
The authenticity of host '13.60.4.164 (13.60.4.164)' can't be established.
ED25519 key fingerprint is SHA256:RvEcQ6cmIYjKKlhneR4N/XbHeL2id4ed3CxuwpSfDGs.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '13.60.4.164' (ED25519) to the list of known hosts.
WebCarRental.war                                      100% 3932KB  28.2MB/s   00:00
ubuntu@ip-172-31-16-28:~/Documentation/java_code/target$ ^C
ubuntu@ip-172-31-16-28:~/Documentation/java_code/target$
```

*Here war file is created

* We can access wildfly by publicip ,port number 8080 and app name.



*Now the app is deployed and exposed.