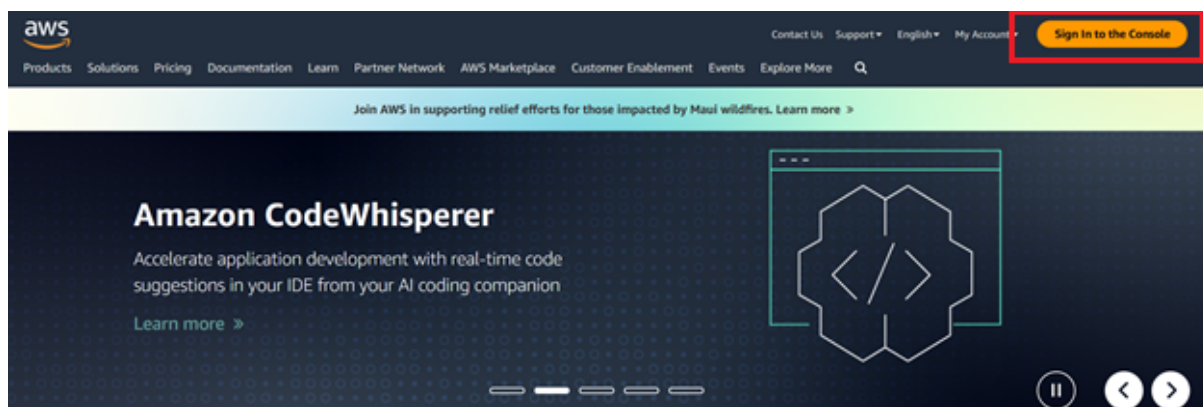


How To Create a AWS Account and LOGIN TO EC2 MACHINE

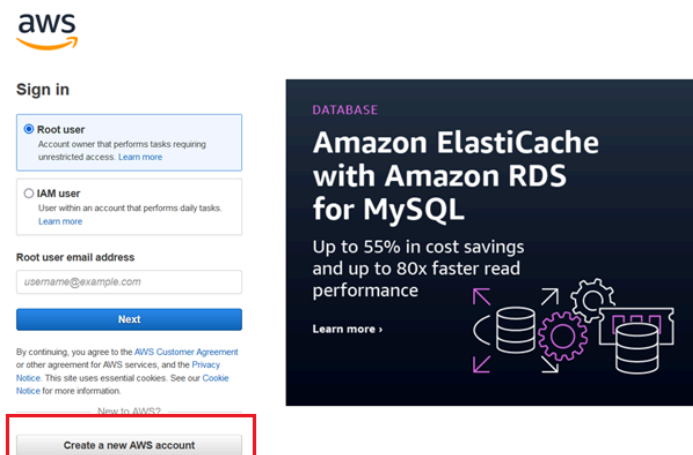
Step 1: Visit AWS Website

Go to the AWS website at [URL](https://aws.amazon.com/) click on “Sign into the Console”




Step 2: Click “Create an AWS Account”

Click the “Create an AWS Account” button on the top right corner of the AWS homepage.




Step 3: Provide Your Email Address

Enter your email address and choose “I am a new user.” then enter the verification code process then Click “Next.”



Explore Free Tier products with a new AWS account.

To learn more, visit aws.amazon.com/free.



Sign up for AWS

Root user email address
Used for account recovery and some administrative functions

AWS account name
Choose a name for your account. You can change this name in your account settings after you sign up.

Verify email address

OR

Sign in to an existing AWS account




Step 4: Enter Your Account Information

Fill in the required information, including your name, desired AWS account name, and password. Click “Next.”

Sign up for AWS

Free Tier offers

All AWS accounts can explore 3 different types of free offers, depending on the product used.

-  **Always free**
Never expires
-  **12 months free**
Start from initial sign-up date
-  **Trials**
Start from service activation date

Contact Information

How do you plan to use AWS?


☐ Business - for your work, school, or organization

☐ Personal - for your own projects

Who should we contact about this account?

Full Name

Phone Number

 +1 222-333-4444

Country or Region

United States

Address

Apartment, suite, unit, building, floor, etc.

City

Step 5: Update Contact Information

Provide your contact information, including your phone number and address. Click “Next.”

Address

Apartment, suite, unit, building, floor, etc.

City

State, Province, or Region

Postal Code


☐ I have read and agree to the terms of the [AWS Customer Agreement](#)

Continue (step 2 of 5)

Step 6: Payment Information

Enter your payment information. AWS requires a valid credit card for account creation, even for the free tier. Fill in the necessary details and click “Secure Submit.”

Secure verification

 We will not charge you for usage below AWS Free Tier limits. We may temporarily hold up to \$1 USD (or an equivalent amount in local currency) as a pending transaction for 3-5 days to verify your identity.



Sign up for AWS

Billing Information

Credit or Debit card number



AWS accepts all major credit and debit cards. To learn more about payment options, review our [FAQ](#)

Expiration date

Month▼

Year▼

Security code 

••••••••

Cardholder's name

Billing address

☒ Use my contact address

••••••••••
••••••••••
IN

☐ Use a new address

Step 7: Identity Verification

AWS will perform an identity verification process, usually by making an automated call to the phone number you provided. Follow the instructions for verification.



Sign up for AWS

Confirm your identity

Verify code

Continue (step 4 of 5)

Having trouble? Sometimes it takes up to 10 minutes to retrieve a verification code. If it's been longer than that, [return to the previous page](#) and try again.

Step 8: Choose a Support Plan

Choose the desired AWS support plan. If you're just starting out, you might choose the free Basic support plan. Click "Continue."



Sign up for AWS

Confirm your identity [Info](#)

Primary purpose of account registration

Choose one that best applies to you. If your account is tied to a business, select the one that applies to your business.

Personal use ▼

Ownership type

Individual ▼

Continue (step 4 of 5)

Sign up for AWS

Select a support plan

Choose a support plan for your business or personal account. [Compare plans and pricing examples](#)
[🔗](#). You can change your plan anytime in the AWS Management Console.

☒ **Basic support - Free**

- Recommended for new users just getting started with AWS
- 24x7 self-service access to AWS resources
- For account and billing issues only
- Access to Personal Health Dashboard & Trusted Advisor



☐ **Developer support - From \$29/month**

- Recommended for developers experimenting with AWS
- Email access to AWS Support during business hours
- 12 (business)-hour response times



☐ **Business support - From \$100/month**

- Recommended for running production workloads on AWS
- 24x7 tech support via email, phone, and chat
- 1-hour response times
- Full set of Trusted Advisor best-practice recommendations





Need Enterprise level support?

From \$15,000 a month you will receive 15-minute response times and concierge-style experience with an assigned Technical Account Manager. [Learn more](#) 🔗

[Complete sign up](#)

Step 9: Confirmation

Review your details and make sure everything is accurate. Read and accept the AWS Customer Agreement, AWS Service Terms, and AWS Privacy Notice. Click “Create Account and Continue.” And your account will be created.



Congratulations

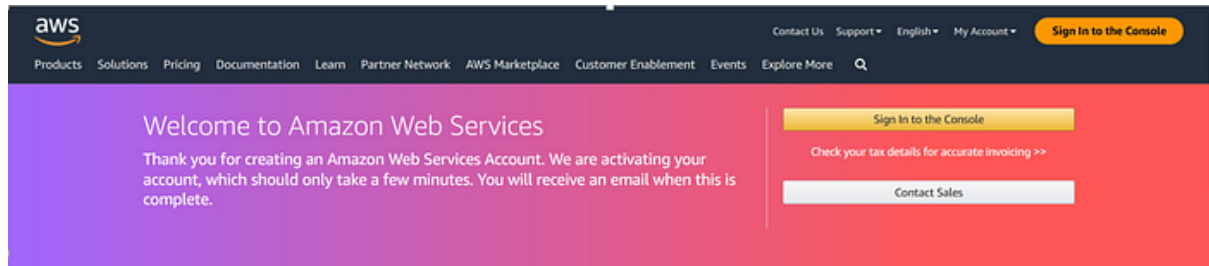
Thank you for signing up for AWS.

We are activating your account, which should only take a few minutes. You will receive an email when this is complete.

[Go to the AWS Management Console](#)

Step 10: Access the AWS Management Console

Once the setup is complete, you can access the AWS Management Console using your new AWS account credentials.



Then , Sign In with your credentials !!!

Create your First ec2 instance

1. Sign in to the AWS Management Console and open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>.
2. On the EC2 Dashboard, choose Launch instance.
3. Under Name and tags, for Name, enter a name to identify your instance. For this tutorial, name the instance tutorial-instance-manual-1. While the instance name is not mandatory, the name will help you easily identify it.
4. Under Application and OS Images, choose an AMI that meets your web server needs. This tutorial uses Amazon Linux.

5. Under Instance type, for Instance type, select an instance type that meets your web server needs. This tutorial uses t2.micro.


6. Under **Key pair (login)**, for **Key pair name**, choose your key pair. (if already created or create new key pair)

▼ **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 pair name
Key pairs allow you to connect to your instance securely.

Enter key pair name

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

Private key file format

☒ **.pem**
For use with OpenSSH

☐ **.ppk**
For use with PuTTY

 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](#) 

Cancel

Create key pair

Download it locally for future Login!!!!

7. Under **Network settings**

▼ **Network settings** [Info](#)

Edit

Network | [Info](#)

vpc-01c31d967ccfa1136

Subnet | [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP | [Info](#)

Enable

Additional charges apply when outside of free tier allowance

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-17' 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

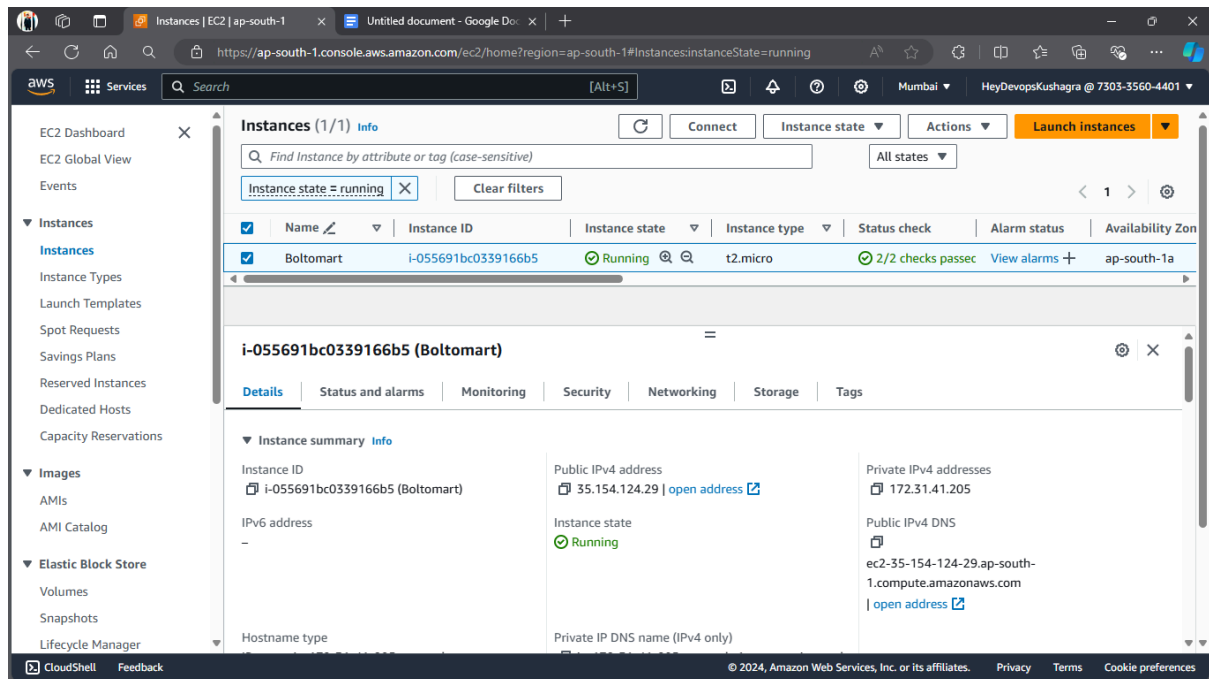
☐ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

8. In the Summary panel, review your instance configuration and then choose **Launch instance**.

9. Choose **View all instances** to close the confirmation page and return to the console. Your instance will first be in a pending state, and will then go into the running state.

How To Login Using Command Prompt



This Is your Key pair .

```
MINGW64 ~/Downloads
$ cd Downloads/

akush@DESKTOP-CK23I6B MINGW64 ~/Downloads
$ cat javaappkey.pem
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEAx08Y5ahkma8e10bYbd+cIXwN5pZ3+RZEeZIdMYLMBndzGjuq
e/GZcmRgyFBxqCfQs8J7JB/S12kuOrQ+1quN+WR3XB142xw1Zr/SduP1qxTxPYa6
r/c5jKuzS1AV5GCUkLSyH/B7UFpxCWqGXVQI7g34LsaGDZnKLDZ1HnCZ+8fs1Yyt
xSNyH1ucJFg90P5RPYmEzBYP/vOTb/n10UdeoAtDCovwsVQn1dPckaG8U6oA/Ctk
OFawt3y7pucCyNx+86Z2vCM73PB1dvzdxZcWk29cJDRaFSVfZybGp50VQfXpGgwr
I2SR2JrKwNpqrbbJFsqDYrZrcaCjXnb3auz+wiDAQABaoIBAFwOHMIvzKPKfQL
qMnpC3YLA7T/gtZBoZCU0kuog1FKZj/bTyqpTn1ZwUwxyLcXk/djTtUlbAhu9p
DeDVE2RqSYcoyy1oMTukfd/+S219axz4EH8gHbEMP2qMvQCPL4Ms41SaPocVZva
yzRRJqgFAget9pgdRpo1VEwTY14BQX8ZT1u8SqnTxsRbX+Dv8VgY+pYcbNxm1z
CgAbyhnyqfqcBoaB4DsInJk6VQ/6p71RF11UhaF33U1GS17WA9/3TjHudWpqbUd
871kx69VUqjGmHYccIp9LWEX/rpb/M01wsut6ISLvcvt80nxt01164Jq1tumjwZt
rATOZyECgYEA9+xyhPHt403103Q/rA0+vkFY00A/21UDPUVrKOK8guH069ZBxy9J
FRkFeaRKR8KJE+4B54J1Dhec8TzoR-B1KwNralbnrtfRaxJ1y768aCCK2KH2FyTu
41qFMnqOr1f2n8bjIdn071wyrgWk81jJdHf3PteY4I64fTMhkyVLycECgYEAZgkC
14gurwFsspCXnyv5PGs1OYSZBLrbs5jFLNqW91oEK9YFBV/1morp578KhMyTI/I
hiYjtrTjJgP/M08dSEtyu//KjVmt1/NmB53AX3t4y+8brQX8da6+s7NTfs83XM6a
j8hzWUTU1oVe1xo+E+4S66bnt28SPHh7JLacVLSGyAUDpa42Ld5M0wL9Nd4VJwd
IEDoo1L2msu6YUX1j/FLbLqUscaHGS8QTIh1auXkF7KggRqIA+QJf/hdXJwpr82Z
nm6M9M+90e/PLD278r8v5XN1mba2jLKnDjucc/V4b9GcZ9nb2jKwMRP34d0YrN3
QVCDgt7YAs1c6LkiTVxsAQK8gQCPkJPcXLY4PEtgyRMEVbQEEB0Pw4t10R8CN
1e9VHE1vp562D+zhqIV+VTD0kf/Afyf6geTrruyI7pwkwpv1312sg1Y/rCVqmm2D
3RZi8h5P4bu/qQYosIWNbe1GNvmcX51tAHSPxxhCNwbkd8y90mx4q7g4kzqfzEvy
WozDNQK8gFeBwbmCOWF2AogULF92GMXFCxVSLc/Lc8AV6scgwY3brrPHS+w/yk9F
nLtbNsurLOYPqWesVYlwr5j71jst3wzYG6c1b2/UAD77bxJAFnvsserGhw7f8BHF
9gRTaxyPpDNI2om324TbxdARA1nkj9OglW3ZEhms96tTo4yTMM
-----END RSA PRIVATE KEY-----
```

Make it Executable , Give permissions

chmod 400 /path_to_key/my_key.pem

```
MINGW64/c/Users/akush/Downloads
$
akush@DESKTOP-CK23I6B MINGW64 ~/Downloads
$ cat javaappkey.pem
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEAx08YSahxma8e10bYBd+cIXwN5pZ3+RZEeZidMYLMBndzGjuq
e/GZcmRgyFBXqCfQsBj7JB/Si2kuOrQ+iquN+wR3XBI42Xw1Zr/SDuP1qxTxPYa6
r/c5jkuZS1Av5GCUkLSyH/B7UFpxCwqGXVQI7g34LsaGDZNkLDZlHnCZ+8fsiYyt
xsNyHlucJFg90P5RPYmEzBYP/vOTb/niOUdeoAtDCoVwsVQn1dPckaG8U6oA/CtK
0fAwT3y7purCyNx+86Z2vCM73PBidvdxZcwKz9cjDRaFSVfZybGpS0VQfxpGqWf
1ZSR2JrkWnpqrBp1FsqDYrZrcaCnjxnb3auz+wIDAQABAoI8AFw0HMIvznkPkf0L
qMrpcJY1AYT/gIzBo2CU0kuog1fkZj/bTyqpIw12WUwxytLCXk/DjT1ULbAhUp9e
DeDVE2RqSYcoyy1oMTuKfd/+SZ19axz4EH8gHbEMP2qMvQCfPL4Ms4I5aPoCVZVa
yzRRJqgFAqet9pgdRpo1VEwTY14BQX8ZT1uBSqntxtswRbx+Dv8VgY+pYcbNxm1Z
CgAbyhnyqfVcBoaB4DsInJk6VQ/6p71Rf1lUhaf33U1GSI7WA9/3TjHudWpqbUd
87ikx69VUqjGmHYccIp9LWEX/rpb/M0iwsut6I5LVcvt8onxTo1164Jq1tumjwZt
rATOZEcgYEA9rXyhPhT403103Q/rAO+vKFY00A/2iUDPuVrK0K8guh069ZBxy9J
frKFeaBxRK8kJE+4B54J1JHec8TzOrB1KVNraLbNrtFraxJ1y768aCKZKoH2Fytu
41qFMnqOr1f2nBbjIDn07iWYrGMK81jJdHfJpTEy4I64fTMHkyVLyECgYEAgkC
14qurwFssPCXnYv5PGSi0YSZBLRbsSjFLNqW9ioEK9YFbV/lmorp578KhMyTI/I
hiYjRTTjjgP/M08dsEtYu//KjVmt1/NmB53AX3t4y+BbrQX8dA6+s7NTfs83XM6a
jBHzwUTUiove1xo+E+4S66bNt28SPHh7JLacVLscgyAUDpa42Ld5M0wL9Nd4VJwd
IEDo01L2mSu6Yux1j/fLbLqUscaHGS8QTih1auXKf7KggRq1A+QjF/hdXJwph82Z
nn6M9M+j90e/PLD273rBvI5XNlmbaJyLKnDjucZ/v4b9CZ9Nb2jKM6RF34d0YTN3
QVCdgt7AsJc61kiTVXsAQKBgQCPkJPcX1Y4PEtgeYRMEVbQEEDB0PvW4t1OR8CN
le9VHEiVp562D+zhgIV+vTd0kF/AfYf6geTruyI7pwKwpvi3i2sgiy/rCVqmn2D
3RZi8h5P4bu/qQYosIWNbe1GNVmcX5ItAHSPPXhcnWbKd8y90mx4q7g4kzqfzEvY
wozDNQKBgFeBwBmCOWF2AogULF92GMXFCxVSLc/Lc8Av6scgwY3brrPHS+w/yK9F
nLtbN5UrLOYpQwESVYlwrSj71jst3wzYG6c1b2/UAD77bxJAfNvsseRghw7f8bHF
90rTaXyPpJniIom324TbXD4RA1Nkj90gLw3ze3hms96tIo4yTMM
-----END RSA PRIVATE KEY-----
akush@DESKTOP-CK23I6B MINGW64 ~/Downloads
$ chmod 400 javaappkey.pem
```

SSH INTO MACHINE

ssh -i /path to key/my key.pem user name@public dns name

```
ec2-user@ip-172-31-41-205/
akush@DESKTOP-CK23I6B MINGW64 ~/Downloads
$ ssh -i javaappkey.pem ec2-user@35.154.124.29
Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboar
Last login: Fri Jun 28 14:53:39 2024 from 223.233.79.54
[ec2-user@ip-172-31-41-205 ~]$ ls
[ec2-user@ip-172-31-41-205 ~]$ cd /
[ec2-user@ip-172-31-41-205 /]$
```

Get Root Privileges

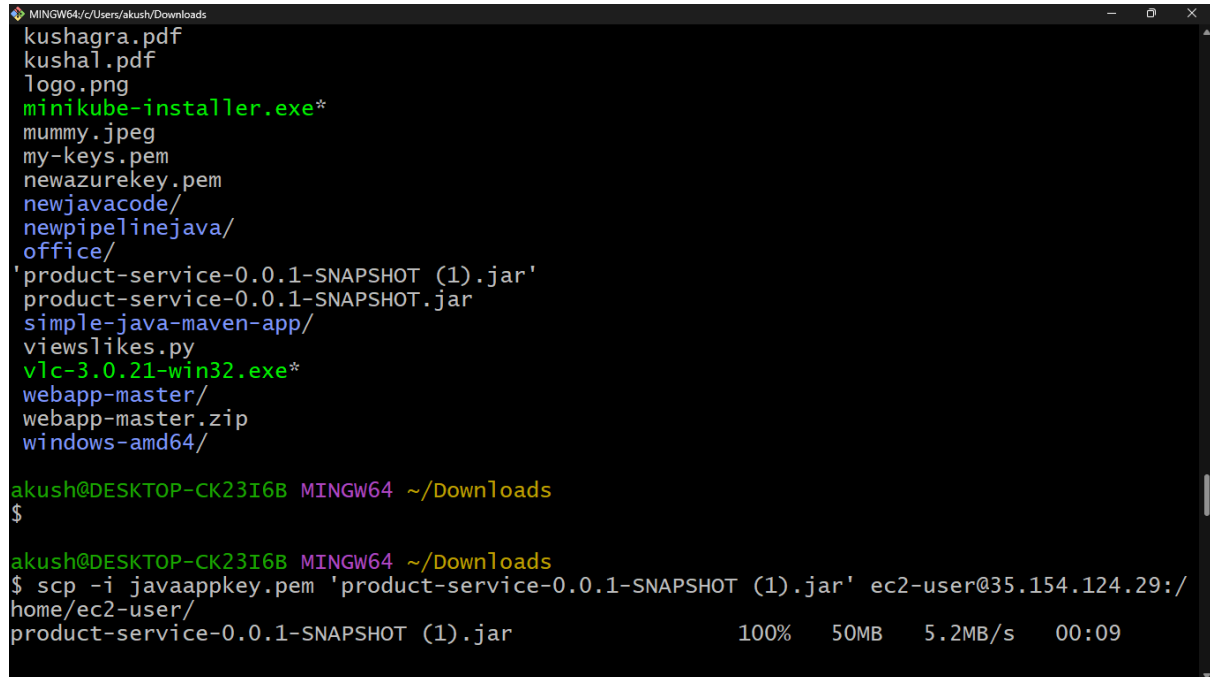
```
root@ip-172-31-41-205/opt/product
[root@ip-172-31-41-205 product]# sudo su
[root@ip-172-31-41-205 product]#
```

Get into opt folder which contains both the jars of product and Auth-service.

```
ec2-user@ip-172-31-41-205/opt/product
[ec2-user@ip-172-31-41-205 /]$ ls
afs  boot  efi  home  lib64  mnt          opt  root  sbin  sys  usr
bin  dev   etc  lib   media  openlogic-openjdk-17.0.11+9-linux-x64.tar.gz  proc  run  srv  tmp  var
[ec2-user@ip-172-31-41-205 /]$ pwd
/
[ec2-user@ip-172-31-41-205 /]$ cd opt/
[ec2-user@ip-172-31-41-205 opt]$ ls
login  openlogic-openjdk-17.0.11+9-linux-x64  product
[ec2-user@ip-172-31-41-205 opt]$ cd login/
[ec2-user@ip-172-31-41-205 login]$ ls
[ec2-user@ip-172-31-41-205 login]$ cd ..
[ec2-user@ip-172-31-41-205 opt]$ cd product/
[ec2-user@ip-172-31-41-205 product]$ ls
nohup.out  product.jar
[ec2-user@ip-172-31-41-205 product]$ |
```

HOW CAN WE MOVE NEW JAVA FILE FROM WINDOWS TO THIS INSTANCES /OPT/PRODUCT OR /OPT/LOGIN FOLDER

Scp -i keyname jarfile-name username@ip:path_where_to_save

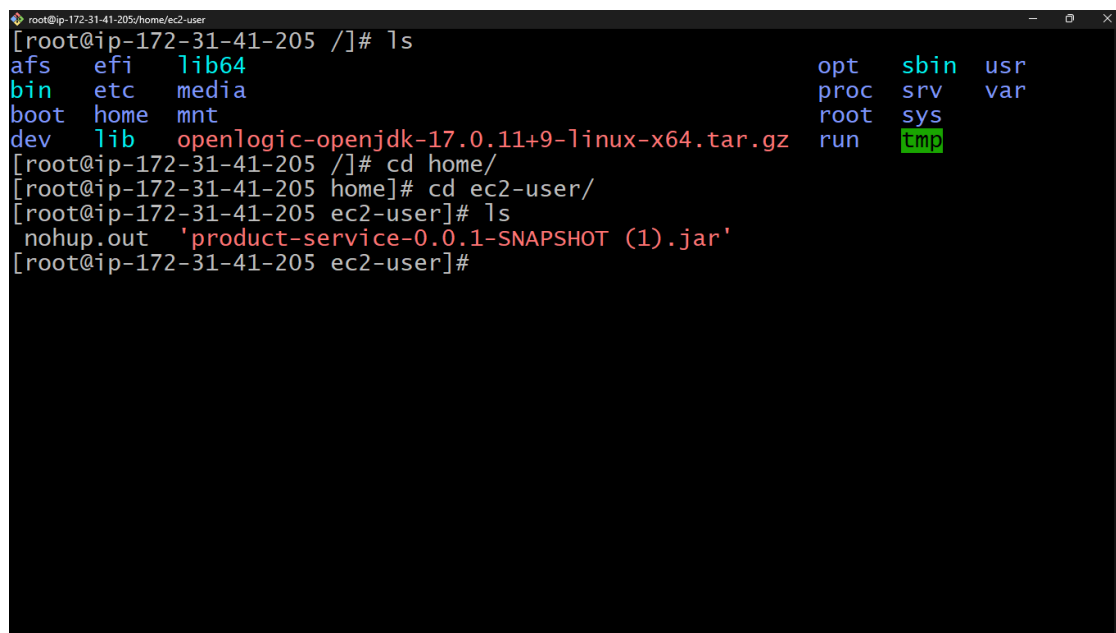


```
MINGW64/c/Users/akush/Downloads
kushagra.pdf
kushal.pdf
logo.png
minikube-installer.exe*
mummy.jpeg
my-keys.pem
newazurekey.pem
newjavacode/
newpipelinejava/
office/
'product-service-0.0.1-SNAPSHOT (1).jar'
product-service-0.0.1-SNAPSHOT.jar
simple-java-maven-app/
viewslikes.py
vlc-3.0.21-win32.exe*
webapp-master/
webapp-master.zip
windows-amd64/

akush@DESKTOP-CK23I6B MINGW64 ~/Downloads
$

akush@DESKTOP-CK23I6B MINGW64 ~/Downloads
$ scp -i javaappkey.pem 'product-service-0.0.1-SNAPSHOT (1).jar' ec2-user@35.154.124.29:/
home/ec2-user/
product-service-0.0.1-SNAPSHOT (1).jar          100%  50MB  5.2MB/s  00:09
```

Got It Here !!



```
root@ip-172-31-41-205/home/ec2-user
[root@ip-172-31-41-205 /]# ls
afs  efi  lib64  opt  sbin  usr
bin  etc  media  proc  srv  var
boot home mnt    root  sys
dev  lib  openlogic-openjdk-17.0.11+9-linux-x64.tar.gz  run  tmp

[root@ip-172-31-41-205 /]# cd home/
[root@ip-172-31-41-205 home]# cd ec2-user/
[root@ip-172-31-41-205 ec2-user]# ls
nohup.out 'product-service-0.0.1-SNAPSHOT (1).jar'
[root@ip-172-31-41-205 ec2-user]#
```

Rename First and Move to /opt/product or /opt/login

```
root@ip-172-31-41-205/opt/product
[root@ip-172-31-41-205 ec2-user]# ls
nohup.out 'product-service-0.0.1-SNAPSHOT (1).jar'
[root@ip-172-31-41-205 ec2-user]# mv product-service-0.0.1-SNAPSHOT\ \ (1\).jar
product2.jar
[root@ip-172-31-41-205 ec2-user]# ls
nohup.out product2.jar
[root@ip-172-31-41-205 ec2-user]# mv product2.jar /opt/product/
[root@ip-172-31-41-205 ec2-user]# ls
nohup.out
[root@ip-172-31-41-205 ec2-user]# cd /
[root@ip-172-31-41-205 /]# cd opt/product/
[root@ip-172-31-41-205 product]# ls
nohup.out product2.jar product.jar
[root@ip-172-31-41-205 product]# |
```

- If the jar file is of auth-service then move to /opt/login


How Can we run the Jar File ?

Using The Nohup command to run in background

```
root@ip-172-31-41-205/opt/product
[ec2-user@ip-172-31-41-205 product]$ sudo su
[root@ip-172-31-41-205 product]# ls
product.jar
[root@ip-172-31-41-205 product]# nohup java -jar product.jar &
[1] 1953
[root@ip-172-31-41-205 product]# nohup: ignoring input and appending output to 'nohup.out'
```

USING SIMPLE **JAR -JAR JAR FILE_NAME**

```
[root@ip-172-31-41-205:/opt/product]#  
[root@ip-172-31-41-205:/opt/product]# sudo su  
[root@ip-172-31-41-205:/opt/product]#  
[root@ip-172-31-41-205:/opt/product]# ls  
nohup.out  product.jar  
[root@ip-172-31-41-205:/opt/product]# java -jar product.jar
```



```
:: Spring Boot ::                                (v3.3.0)
```

```
2024-06-28T15:24:16.478Z INFO 2034 --- [product-service] [           main] c.b  
.p.ProductServiceApplication : Starting ProductServiceApplication v0.0  
.1-SNAPSHOT using Java 17.0.11 with PID 2034 (/opt/product/product.jar started  
by root in /opt/product)  
2024-06-28T15:24:16.487Z INFO 2034 --- [product-service] [           main] c.b  
.p.ProductServiceApplication : No active profile set, falling back to  
1 default profile: "default"  
2024-06-28T15:24:18.587Z INFO 2034 --- [product-service] [           main] .s.  
d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositor
```