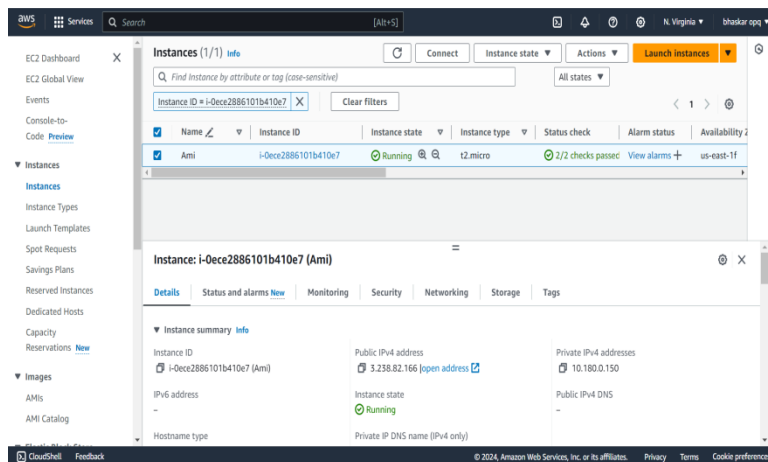
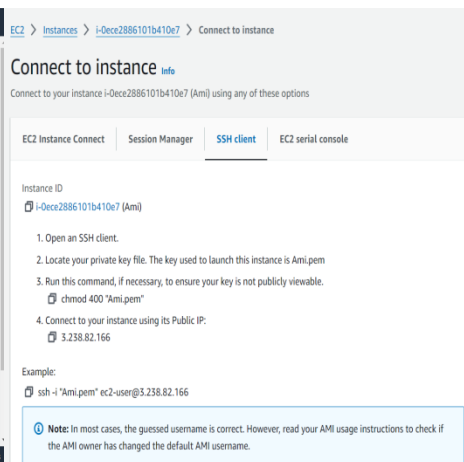


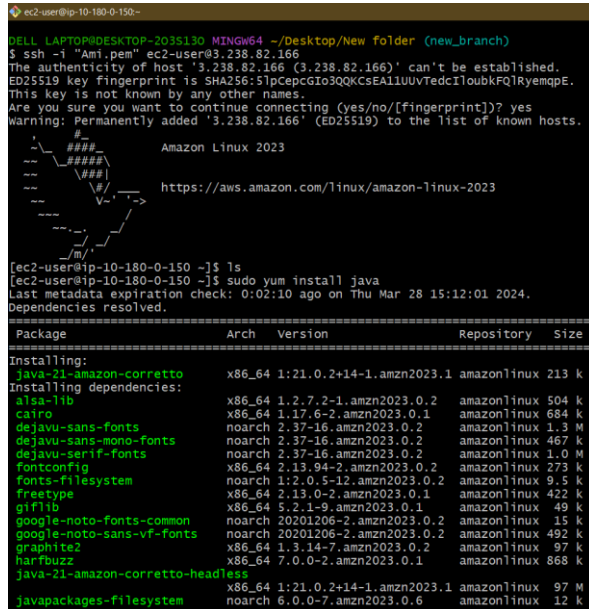
## 1. Creating Ec2 instance for Ami (amazon machine image)



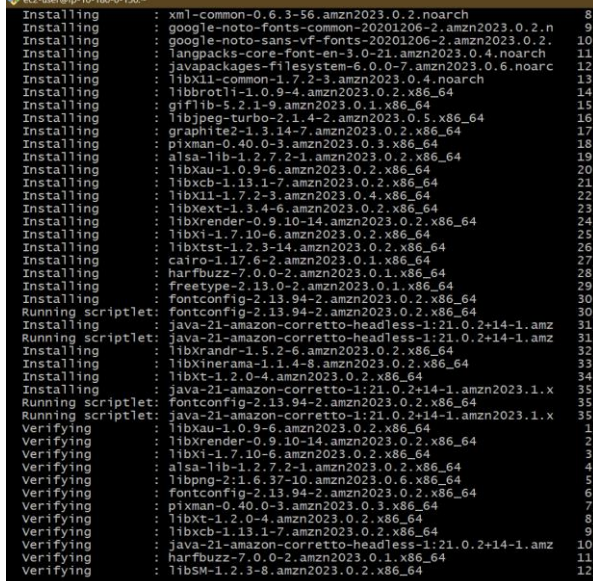
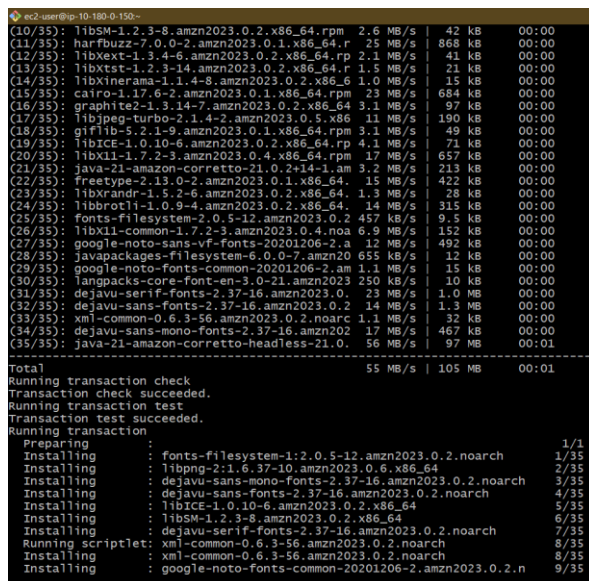
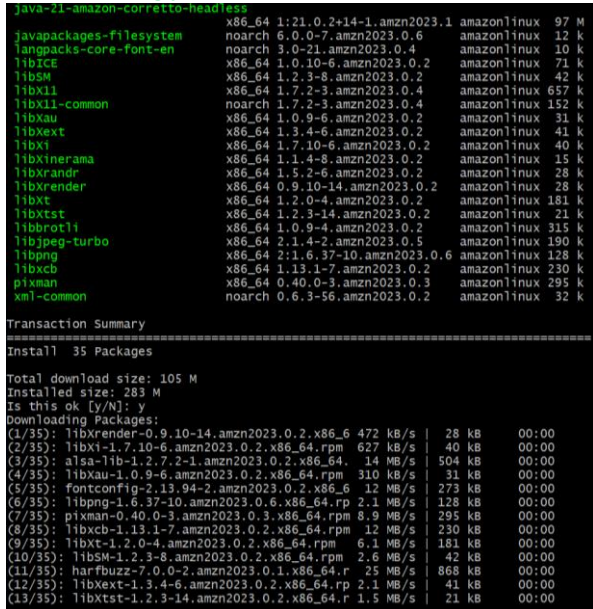
## 2. Copy ssh



## 3. connect ec2 instance in bashrc



## 4. Installing java



```

ec2-user@ip-10-180-0-150-~
Verifying : java-21-amazon-corretto-headless-1:21.0.2+14-1.amzn2023.0.2.x86_64 10/35
Verifying : harfbuzz-7.0.0-2.amzn2023.0.1.x86_64 11/35
Verifying : libSM-1.2.3-8.amzn2023.0.2.x86_64 12/35
Verifying : libXext-1.3.4-6.amzn2023.0.2.x86_64 13/35
Verifying : libXtst-1.2.3-14.amzn2023.0.2.x86_64 14/35
Verifying : libXinerama-1.1.4-8.amzn2023.0.2.x86_64 15/35
Verifying : cairo-1.17.6-2.amzn2023.0.1.x86_64 16/35
Verifying : graphite2-1.3.14-7.amzn2023.0.2.x86_64 17/35
Verifying : libjpeg-turbo-2.1.4-2.amzn2023.0.5.x86_64 18/35
Verifying : giflib-5.2.1-9.amzn2023.0.1.x86_64 19/35
Verifying : libICE-1.0.10-6.amzn2023.0.2.x86_64 20/35
Verifying : java-21-amazon-corretto-1:21.0.2+14-1.amzn2023.1.x86_64 21/35
Verifying : libX11-1.7.2-3.amzn2023.0.4.x86_64 22/35
Verifying : freetype-2.13.0-2.amzn2023.0.1.x86_64 23/35
Verifying : libXrandr-1.5.2-6.amzn2023.0.2.x86_64 24/35
Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 25/35
Verifying : fonts-filesystem-1:2.0.5-12.amzn2023.0.2.noarch 26/35
Verifying : google-noto-sans-vf-fonts-20201206-2.amzn2023.0.2.noarch 27/35
Verifying : libX11-common-1.7.2-3.amzn2023.0.4.noarch 28/35
Verifying : javapackages-filesystem-6.0.0-7.amzn2023.0.6.noarch 29/35
Verifying : langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch 30/35
Verifying : google-noto-sans-vf-fonts-20201206-2.amzn2023.0.2.noarch 31/35
Verifying : dejavu-sans-fonts-2.37-16.amzn2023.0.2.noarch 32/35
Verifying : dejavu-serif-fonts-2.37-16.amzn2023.0.2.noarch 33/35
Verifying : xml-common-0.6.3-56.amzn2023.0.2.noarch 34/35
Verifying : dejavu-sans-mono-fonts-2.37-16.amzn2023.0.2.noarch 35/35

Installed:
alsa-lib-1.2.7.2-1.amzn2023.0.2.x86_64
cairo-1.17.6-2.amzn2023.0.1.x86_64
dejavu-sans-fonts-2.37-16.amzn2023.0.2.noarch
dejavu-sans-mono-fonts-2.37-16.amzn2023.0.2.noarch
dejavu-serif-fonts-2.37-16.amzn2023.0.2.noarch
fontconfig-2.13.94-2.amzn2023.0.2.x86_64
fonts-filesystem-1:2.0.5-12.amzn2023.0.2.noarch
freetype-2.13.0-2.amzn2023.0.1.x86_64
giflib-5.2.1-9.amzn2023.0.1.x86_64
google-noto-sans-vf-fonts-20201206-2.amzn2023.0.2.noarch
google-noto-sans-vf-fonts-20201206-2.amzn2023.0.2.noarch
graphite2-1.3.14-7.amzn2023.0.2.x86_64
harfbuzz-7.0.0-2.amzn2023.0.1.x86_64
java-21-amazon-corretto-1:21.0.2+14-1.amzn2023.1.x86_64
java-21-amazon-corretto-headless-1:21.0.2+14-1.amzn2023.1.x86_64
javapackages-filesystem-6.0.0-7.amzn2023.0.6.noarch

```

## 1. Installing git

```

[ec2-user@ip-10-180-0-150 ~]$ sudo yum install git
Last metadata expiration check: 0:02:47 ago on Thu Mar 28 15:12:01 2024.
Dependencies resolved.
=====
Package           Arch      Version      Repository    Size
=====
Installing:
git               x86_64    2.40.1-1.amzn2023.0.1    amazonlinux   57 k
Installing dependencies:
git-core          x86_64    2.40.1-1.amzn2023.0.1    amazonlinux   4.3 M
git-core-doc      noarch    2.40.1-1.amzn2023.0.1    amazonlinux   2.6 M
perl-Error        noarch    1:0.17029-5.amzn2023.0.2    amazonlinux   41 k
perl-File-Find    noarch    1.37-477.amzn2023.0.6      amazonlinux   26 k
perl-Git          noarch    2.40.1-1.amzn2023.0.1    amazonlinux   45 k
perl-TermReadKey  x86_64    2.38-9.amzn2023.0.2        amazonlinux   36 k
perl-lib          x86_64    0.65-477.amzn2023.0.6      amazonlinux   15 k
Transaction Summary
=====
Install 8 Packages
Total download size: 7.1 M

```

```

ec2-user@ip-10-180-0-150-~
Install 8 Packages

Total download size: 7.1 M
Installed size: 34 M
Is this ok [y/N]: y
Downloading Packages:
(1/8): git-2.40.1-1.amzn2023.0.1.x86_64.rpm    949 kB/s | 57 kB    00:00
(2/8): perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64.rpm    555 kB/s | 36 kB    00:00
(3/8): perl-lib-0.65-477.amzn2023.0.6.x86_64.rpm    716 kB/s | 15 kB    00:00
(4/8): git-core-2.40.1-1.amzn2023.0.1.x86_64.rpm    35 MB/s | 4.3 MB    00:00
(5/8): perl-File-Find-1.37-477.amzn2023.0.6.noarch    622 kB/s | 26 kB    00:00
(6/8): git-core-doc-2.40.1-1.amzn2023.0.1.noarch    32 MB/s | 2.6 MB    00:00
(7/8): perl-Git-2.40.1-1.amzn2023.0.1.noarch    1.7 MB/s | 45 kB    00:00
(8/8): perl-Error-0.17029-5.amzn2023.0.2.noarch    993 kB/s | 41 kB    00:00
-----
Total                                           31 MB/s | 7.1 MB    00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing :
Installing : git-core-2.40.1-1.amzn2023.0.1.x86_64 1/1
Installing : git-core-doc-2.40.1-1.amzn2023.0.1.noarch 2/8
Installing : perl-Error-1:0.17029-5.amzn2023.0.2.noarch 3/8
Installing : perl-File-Find-1.37-477.amzn2023.0.6.noarch 4/8
Installing : perl-lib-0.65-477.amzn2023.0.6.x86_64 5/8
Installing : perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 6/8
Installing : perl-Git-2.40.1-1.amzn2023.0.1.noarch 7/8
Installing : git-2.40.1-1.amzn2023.0.1.x86_64 8/8
Running scriptlet: git-2.40.1-1.amzn2023.0.1.x86_64 8/8
Verifying : git-2.40.1-1.amzn2023.0.1.x86_64 1/8
Verifying : git-core-2.40.1-1.amzn2023.0.1.x86_64 2/8
Verifying : perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64 3/8
Verifying : perl-lib-0.65-477.amzn2023.0.6.x86_64 4/8
Verifying : git-core-doc-2.40.1-1.amzn2023.0.1.noarch 5/8
Verifying : perl-File-Find-1.37-477.amzn2023.0.6.noarch 6/8
Verifying : perl-Error-1:0.17029-5.amzn2023.0.2.noarch 7/8
Verifying : perl-Git-2.40.1-1.amzn2023.0.1.noarch 8/8

Installed:
git-2.40.1-1.amzn2023.0.1.x86_64
git-core-2.40.1-1.amzn2023.0.1.x86_64

```

## 5. Java successfully installed

```

ec2-user@ip-10-180-0-150-~
javapackages-filesystem-6.0.0-7.amzn2023.0.6.noarch
langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch
libICE-1.0.10-6.amzn2023.0.2.x86_64
libSM-1.2.3-8.amzn2023.0.2.x86_64
libX11-1.7.2-3.amzn2023.0.4.x86_64
libX11-common-1.7.2-3.amzn2023.0.4.noarch
libXau-1.0.9-6.amzn2023.0.2.x86_64
libXext-1.3.4-6.amzn2023.0.2.x86_64
libXi-1.7.10-6.amzn2023.0.2.x86_64
libXinerama-1.1.4-8.amzn2023.0.2.x86_64
libXrandr-1.5.2-6.amzn2023.0.2.x86_64
libXrender-0.9.10-14.amzn2023.0.2.x86_64
libXt-1.2.0-4.amzn2023.0.2.x86_64
libXtst-1.2.3-14.amzn2023.0.2.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64
libjpeg-turbo-2.1.4-2.amzn2023.0.5.x86_64
libpng-2:1.6.37-10.amzn2023.0.6.x86_64
libxcb-1.13.1-7.amzn2023.0.2.x86_64
pixman-0.40.0-3.amzn2023.0.3.x86_64
xml-common-0.6.3-56.amzn2023.0.2.noarch

Complete!

```

## Successfully downloaded git



## 1. Maven installing

```
[ec2-user@ip-10-180-0-150 ~]$ sudo yum install maven
Last metadata expiration check: 0:03:08 ago on Thu Mar 28 15:12:01 2024.
Dependencies resolved.
=====
Package                Arch Version      Repository    Size
=====
Installing:
maven                  noarch 1:3.8.4-3.amzn2023.0.5 amazonlinux 18 k
Installing dependencies:
apache-commons-cli     noarch 1.5.0-3.amzn2023.0.3 amazonlinux 76 k
apache-commons-codec   noarch 1.15-6.amzn2023.0.3 amazonlinux 303 k
apache-commons-io      noarch 1:2.8.0-7.amzn2023.0.4 amazonlinux 284 k
apache-commons-lang3   noarch 3.12.0-7.amzn2023.0.3 amazonlinux 559 k
atinject               noarch 1.0.5-3.amzn2023.0.3 amazonlinux 23 k
cdi-api                noarch 2.0.2-6.amzn2023.0.3 amazonlinux 54 k
google-guice           noarch 4.2.3-8.amzn2023.0.6 amazonlinux 473 k
guava                  noarch 31.0.1-3.amzn2023.0.6 amazonlinux 2.4 M
httpcomponents-client  noarch 4.5.13-4.amzn2023.0.4 amazonlinux 657 k
httpcomponents-core    noarch 4.4.13-6.amzn2023.0.3 amazonlinux 632 k
jakarta-annotations   noarch 1.3.5-13.amzn2023.0.3 amazonlinux 46 k
jansi                  x86_64 2.4.0-3.amzn2023.0.3 amazonlinux 113 k
java-17-amazon-corretto-devel x86_64 1:17.0.10+8-1.amzn2023.1 amazonlinux 142 k
java-17-amazon-corretto-headless x86_64 1:17.0.10+8-1.amzn2023.1 amazonlinux 91 M
jcl-over-slf4j         noarch 1.7.32-3.amzn2023.0.4 amazonlinux 25 k
jsoup                  noarch 1.13.1-9.amzn2023.0.5 amazonlinux 377 k
jsr-305                noarch 3.0.2-5.amzn2023.0.4 amazonlinux 32 k
maven-amazon-corretto17 noarch 1:3.8.4-3.amzn2023.0.5 amazonlinux 9.4 k
maven-lib              noarch 1:3.8.4-3.amzn2023.0.5 amazonlinux 1.5 M
maven-resolver         noarch 1.1.7-3-3.amzn2023.0.4 amazonlinux 557 k
maven-shared-utils    noarch 3.3.4-4.amzn2023.0.3 amazonlinux 152 k
maven-wagon            noarch 3.4.2-6.amzn2023.0.4 amazonlinux 113 k
plexus-cipher          noarch 1.8-3.amzn2023.0.3 amazonlinux 27 k
```

```
[ec2-user@ip-10-180-0-150 ~]$
(32/32): maven-wagon-3.4.2-6.amzn2023.0.4.noarch 1.2 MB/s | 113 kB 00:00
Total 63 MB/s | 101 MB 00:01
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing :
Installing : java-17-amazon-corretto-headless-1:17.0.10+8-1.amzn2023.1.x86_64 1/32
Running scriptlet: java-17-amazon-corretto-headless-1:17.0.10+8-1.amzn2023.1.x86_64 1/32
Installing : slf4j-1.7.32-3.amzn2023.0.4.noarch 2/32
Installing : atinject-1.0.5-3.amzn2023.0.3.noarch 3/32
Installing : plexus-utils-3.3.0-9.amzn2023.0.4.noarch 4/32
Installing : apache-commons-io-1:2.8.0-7.amzn2023.0.4.noarch 5/32
Installing : jakarta-annotations-1.3.5-13.amzn2023.0.3.noarch 6/32
Installing : plexus-cipher-1.8-3.amzn2023.0.3.noarch 7/32
Installing : apache-commons-lang3-3.12.0-7.amzn2023.0.3.noarch 8/32
Installing : httpcomponents-client-4.5.13-4.amzn2023.0.4.noarch 9/32
Installing : plexus-containers-component-annotations-2.1.0-9.amzn2023.0.4.noarch 10/32
Installing : plexus-classworlds-2.6.0-10.amzn2023.0.4.noarch 11/32
Installing : plexus-sec-dispatcher-2.0-3.amzn2023.0.3.noarch 12/32
Installing : maven-shared-utils-3.3.4-4.amzn2023.0.3.noarch 13/32
Installing : cdi-api-2.0.2-6.amzn2023.0.3.noarch 14/32
Installing : sisu-1:0.3.4-9.amzn2023.0.4.noarch 15/32
Installing : jcl-over-slf4j-1.7.32-3.amzn2023.0.4.noarch 16/32
Installing : java-17-amazon-corretto-devel-1:17.0.10+8-1.amzn2023.1.x86_64 17/32
Running scriptlet: java-17-amazon-corretto-devel-1:17.0.10+8-1.amzn2023.1.x86_64 17/32
Installing : jansi-2.4.0-3.amzn2023.0.3.x86_64 18/32
Installing : apache-commons-codec-1.15-6.amzn2023.0.3.noarch 19/32
Installing : jsoup-1.13.1-9.amzn2023.0.5.noarch 20/32
Installing : apache-commons-cli-1.5.0-3.amzn2023.0.3.noarch 21/32
Installing : plexus-interpolation-1.26-10.amzn2023.0.4.noarch 22/32
Installing : jsr-305-3.0.2-5.amzn2023.0.4.noarch 23/32
Installing : guava-31.0.1-3.amzn2023.0.6.noarch 24/32
Installing : google-guice-4.2.3-8.amzn2023.0.6.noarch 25/32
Installing : publicsuffix-list-20240212-61.amzn2023.noarch 26/32
Installing : httpcomponents-client-4.5.13-4.amzn2023.0.4.noarch 27/32
Installing : maven-wagon-3.4.2-6.amzn2023.0.4.noarch 28/32
Installing : maven-resolver-1.1.7-3-3.amzn2023.0.4.noarch 29/32
Installing : maven-lib-1:3.8.4-3.amzn2023.0.5.noarch 30/32
Installing : maven-amazon-corretto17-1:3.8.4-3.amzn2023.0.5.noarch 31/32
Installing : maven-1:3.8.4-3.amzn2023.0.5.noarch 32/32
Running scriptlet: maven-1:3.8.4-3.amzn2023.0.5.noarch 32/32
```

```
[ec2-user@ip-10-180-0-150 ~]$
plexus-interpolation  noarch 1.26-10.amzn2023.0.4 amazonlinux 19 k
plexus-sec-dispatcher noarch 2.0-3.amzn2023.0.3 amazonlinux 80 k
plexus-utils          noarch 3.3.0-9.amzn2023.0.4 amazonlinux 254 k
publicsuffix-list     noarch 20240212-61.amzn2023 amazonlinux 80 k
sisu                  noarch 1:0.3.4-9.amzn2023.0.4 amazonlinux 510 k
slf4j                 noarch 1.7.32-3.amzn2023.0.4 amazonlinux 70 k

Transaction Summary
Install 32 Packages

Total download size: 101 M
Installed size: 248 M
Is this ok [y/N]: y
Downloading Packages:
(1/32): jansi-2.4.0-3.amzn2023.0.3.x86_64.rpm 1.0 MB/s | 113 kB 00:00
(2/32): java-17-amazon-corretto-devel-17.0.10+8-1.x86_64.rpm 977 KB/s | 142 kB 00:00
(3/32): sisu-1:0.3.4-9.amzn2023.0.4.noarch.rpm 4.7 MB/s | 510 kB 00:00
(4/32): plexus-sec-dispatcher-2.0-3.amzn2023.0.3.noarch.rpm 784 KB/s | 34 kB 00:00
(5/32): apache-commons-io-2.8.0-7.amzn2023.0.4.noarch.rpm 3.6 MB/s | 284 kB 00:00
(6/32): maven-amazon-corretto17-1:3.8.4-3.amzn2023.0.5.noarch.rpm 2.75 MB/s | 9.4 kB 00:00
(7/32): apache-commons-codec-1.15-6.amzn2023.0.3.noarch.rpm 5.1 MB/s | 303 kB 00:00
(8/32): jakarta-annotations-1.3.5-13.amzn2023.0.3.noarch.rpm 846 KB/s | 46 kB 00:00
(9/32): plexus-cipher-1.8-3.amzn2023.0.3.noarch.rpm 9.3 MB/s | 27 kB 00:00
(10/32): atinject-1.0.5-3.amzn2023.0.3.noarch.rpm 784 KB/s | 23 kB 00:00
(11/32): slf4j-1.7.32-3.amzn2023.0.4.noarch.rpm 2.0 MB/s | 70 kB 00:00
(12/32): maven-lib-1:3.8.4-3.amzn2023.0.5.noarch.rpm 12 MB/s | 1.5 MB 00:00
(13/32): plexus-interpolation-1.26-10.amzn2023.0.4.noarch.rpm 846 KB/s | 19 kB 00:00
(14/32): httpcomponents-client-4.5.13-4.amzn2023.0.4.noarch.rpm 8.9 MB/s | 657 kB 00:00
(15/32): maven-shared-utils-3.3.4-4.amzn2023.0.3.noarch.rpm 2.4 MB/s | 152 kB 00:00
(16/32): google-guice-4.2.3-8.amzn2023.0.6.noarch.rpm 9.3 MB/s | 2.4 MB 00:00
(17/32): publicsuffix-list-20240212-61.amzn2023.0.3.noarch.rpm 5.9 MB/s | 80 kB 00:00
(18/32): cdi-api-2.0.2-6.amzn2023.0.3.noarch.rpm 1.0 MB/s | 54 kB 00:00
(19/32): httpcomponents-core-4.4.13-6.amzn2023.0.4.noarch.rpm 8.8 MB/s | 632 kB 00:00
(20/32): guava-31.0.1-3.amzn2023.0.6.noarch.rpm 4.2 MB/s | 2.4 MB 00:00
(21/32): plexus-sec-dispatcher-2.0-3.amzn2023.0.3.noarch.rpm 9.3 MB/s | 34 kB 00:00
(22/32): plexus-containers-component-annotations-2.1.0-9.amzn2023.0.4.noarch.rpm 5.9 MB/s | 80 kB 00:00
(23/32): google-guice-4.2.3-8.amzn2023.0.6.noarch.rpm 9.3 MB/s | 2.4 MB 00:00
(24/32): plexus-classworlds-2.6.0-10.amzn2023.0.4.noarch.rpm 849 KB/s | 61 kB 00:00
(25/32): java-17-amazon-corretto-headless-17.0.10+8-1.x86_64.rpm 91 MB/s | 91 MB 00:01
(26/32): maven-resolver-1.1.7-3-3.amzn2023.0.4.noarch.rpm 1.1 MB/s | 557 kB 00:00
(27/32): jsoup-1.13.1-9.amzn2023.0.5.noarch.rpm 981 KB/s | 377 kB 00:00
(28/32): jcl-over-slf4j-1.7.32-3.amzn2023.0.4.noarch.rpm 1.5 MB/s | 25 kB 00:00
```

```
[ec2-user@ip-10-180-0-150 ~]$
Verifying : apache-commons-codec-1.15-6.amzn2023.0.3.noarch 6/32
Verifying : maven-amazon-corretto17-1:3.8.4-3.amzn2023.0.5.noarch 7/32
Verifying : jakarta-annotations-1.3.5-13.amzn2023.0.3.noarch 8/32
Verifying : plexus-sec-dispatcher-2.0-3.amzn2023.0.3.noarch 9/32
Verifying : slf4j-1.7.32-3.amzn2023.0.4.noarch 10/32
Verifying : guava-31.0.1-3.amzn2023.0.6.noarch 11/32
Verifying : maven-lib-1:3.8.4-3.amzn2023.0.5.noarch 12/32
Verifying : plexus-cipher-1.8-3.amzn2023.0.3.noarch 13/32
Verifying : apache-commons-lang3-3.12.0-7.amzn2023.0.3.noarch 14/32
Verifying : maven-1:3.8.4-3.amzn2023.0.5.noarch 15/32
Verifying : httpcomponents-client-4.5.13-4.amzn2023.0.4.noarch 16/32
Verifying : maven-shared-utils-3.3.4-4.amzn2023.0.3.noarch 17/32
Verifying : publicsuffix-list-20240212-61.amzn2023.noarch 18/32
Verifying : atinject-1.0.5-3.amzn2023.0.3.noarch 19/32
Verifying : cdi-api-2.0.2-6.amzn2023.0.3.noarch 20/32
Verifying : httpcomponents-core-4.4.13-6.amzn2023.0.3.noarch 21/32
Verifying : plexus-utils-3.3.0-9.amzn2023.0.4.noarch 22/32
Verifying : plexus-interpolation-1.26-10.amzn2023.0.4.noarch 23/32
Verifying : google-guice-4.2.3-8.amzn2023.0.6.noarch 24/32
Verifying : maven-resolver-1.1.7-3-3.amzn2023.0.4.noarch 25/32
Verifying : plexus-classworlds-2.6.0-10.amzn2023.0.4.noarch 26/32
Verifying : jsoup-1.13.1-9.amzn2023.0.5.noarch 27/32
Verifying : apache-commons-cli-1.5.0-3.amzn2023.0.3.noarch 28/32
Verifying : jcl-over-slf4j-1.7.32-3.amzn2023.0.4.noarch 29/32
Verifying : plexus-interpolation-1.26-10.amzn2023.0.4.noarch 30/32
Verifying : jsr-305-3.0.2-5.amzn2023.0.4.noarch 31/32
Verifying : maven-wagon-3.4.2-6.amzn2023.0.4.noarch 32/32

Installed:
apache-commons-cli-1.5.0-3.amzn2023.0.3.noarch
apache-commons-codec-1.15-6.amzn2023.0.3.noarch
apache-commons-io-1:2.8.0-7.amzn2023.0.4.noarch
apache-commons-lang3-3.12.0-7.amzn2023.0.3.noarch
atinject-1.0.5-3.amzn2023.0.3.noarch
cdi-api-2.0.2-6.amzn2023.0.3.noarch
google-guice-4.2.3-8.amzn2023.0.6.noarch
httpcomponents-client-4.5.13-4.amzn2023.0.4.noarch
httpcomponents-core-4.4.13-6.amzn2023.0.3.noarch
jakarta-annotations-1.3.5-13.amzn2023.0.3.noarch
jansi-2.4.0-3.amzn2023.0.3.x86_64
java-17-amazon-corretto-devel-1:17.0.10+8-1.amzn2023.1.x86_64
java-17-amazon-corretto-headless-1:17.0.10+8-1.amzn2023.1.x86_64
jcl-over-slf4j-1.7.32-3.amzn2023.0.4.noarch
```

## Successfully installed maven

```
[ec2-user@ip-10-180-0-150 ~]$
Complete!
```

## 1. Installing tomcat9

```
ec2-user@ip-10-180-0-150:~$ sudo yum install tomcat9
Last metadata expiration check: 0:03:42 ago on Thu Mar 28 15:12:01 2024.
Dependencies resolved.
=====================================================================================================================================
Package               Arch      Version                                Repository      Size
=====================================================================================================================================
Installing:
tomcat9               noarch    1:9.0.83-1.amzn2023.0.1              amazonlinux     93 k
Installing dependencies:
ecj                   noarch    1:4.23-1.amzn2023.0.4                amazonlinux     2.4 M
javapackages-tools   noarch    6.0.0-7.amzn2023.0.6                amazonlinux     25 k
tomcat9-el-3.0-api    noarch    1:9.0.83-1.amzn2023.0.1              amazonlinux     107 k
tomcat9-jsp-2.3-api   noarch    1:9.0.83-1.amzn2023.0.1              amazonlinux     74 k
tomcat9-lib           noarch    1:9.0.83-1.amzn2023.0.1              amazonlinux     6.0 M
tomcat9-servlet-4.0-api noarch    1:9.0.83-1.amzn2023.0.1              amazonlinux     286 k
=====================================================================================================================================
Transaction Summary
-----
Install 7 Packages
Total download size: 9.0 M
Installed size: 14 M
Is this ok [y/N]: y
Downloading Packages:
(1/7): tomcat9-el-3.0-api-9.0.83-1.amzn2023.0.1.noarch.rpm 1.5 MB/s | 107 kB 00:00
(2/7): ecj-4.23-1.amzn2023.0.4.noarch.rpm                  24 MB/s | 2.4 MB 00:00
(3/7): javapackages-tools-6.0.0-7.amzn2023.0.6.noarch.rpm 762 kB/s | 25 kB 00:00
(4/7): tomcat9-jsp-2.3-api-9.0.83-1.amzn2023.0.1.noarch.rpm 697 kB/s | 74 kB 00:00
(5/7): tomcat9-servlet-4.0-api-9.0.83-1.amzn2023.0.1.noarch.rpm 16 MB/s | 286 kB 00:00
(6/7): tomcat9-9.0.83-1.amzn2023.0.1.noarch.rpm            4.9 MB/s | 93 kB 00:00
(7/7): tomcat9-lib-9.0.83-1.amzn2023.0.1.noarch.rpm         55 MB/s | 6.0 MB 00:00
-----
Total: 32 MB/s | 9.0 MB 00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing                : 1/1
  Installing tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 1/7
  Running scriptlet: tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 1/7
  Installing tomcat9-el-3.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 2/7
```

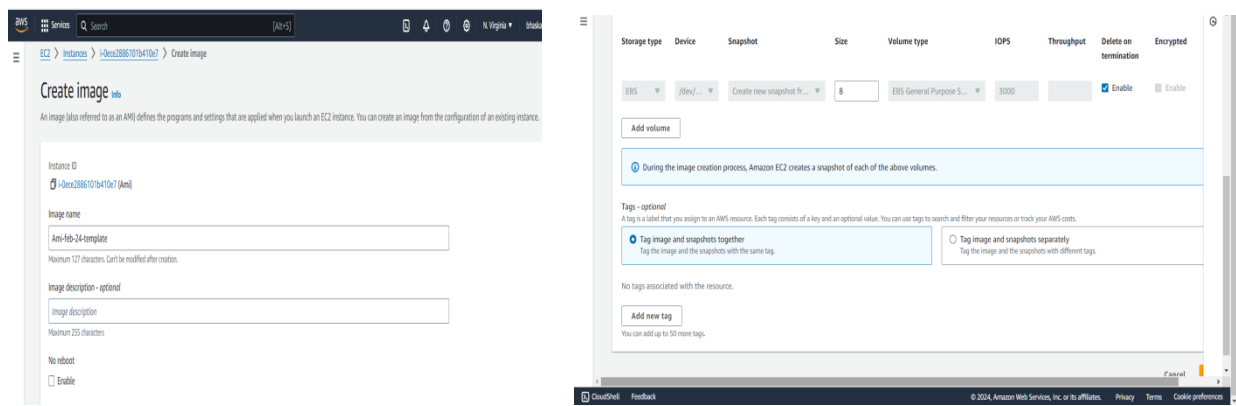
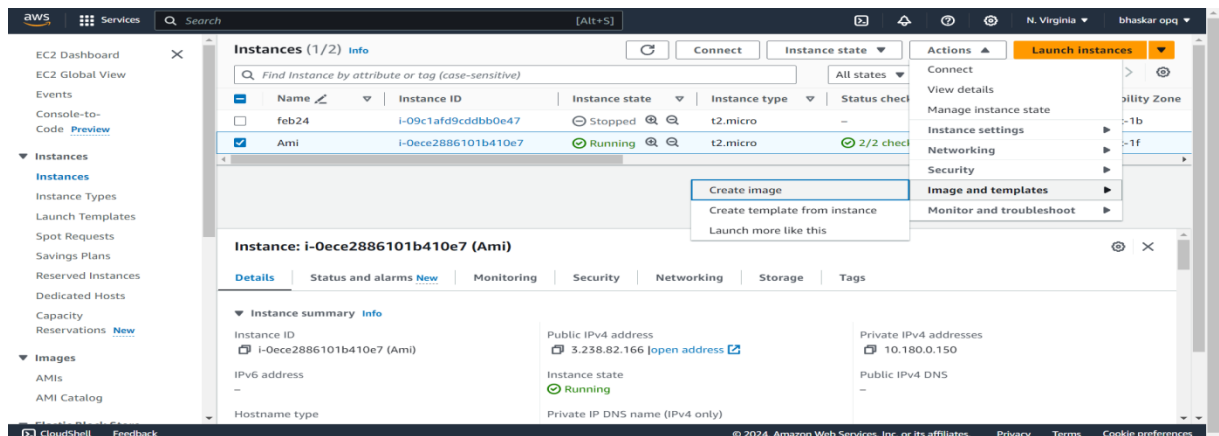
```
ec2-user@ip-10-180-0-150:~$ sudo yum install tomcat9
Transaction Summary
-----
Install 7 Packages
Total download size: 9.0 M
Installed size: 14 M
Is this ok [y/N]: y
Downloading Packages:
(1/7): tomcat9-el-3.0-api-9.0.83-1.amzn2023.0.1.noarch.rpm 1.5 MB/s | 107 kB 00:00
(2/7): ecj-4.23-1.amzn2023.0.4.noarch.rpm                  24 MB/s | 2.4 MB 00:00
(3/7): javapackages-tools-6.0.0-7.amzn2023.0.6.noarch.rpm 762 kB/s | 25 kB 00:00
(4/7): tomcat9-jsp-2.3-api-9.0.83-1.amzn2023.0.1.noarch.rpm 697 kB/s | 74 kB 00:00
(5/7): tomcat9-servlet-4.0-api-9.0.83-1.amzn2023.0.1.noarch.rpm 16 MB/s | 286 kB 00:00
(6/7): tomcat9-9.0.83-1.amzn2023.0.1.noarch.rpm            4.9 MB/s | 93 kB 00:00
(7/7): tomcat9-lib-9.0.83-1.amzn2023.0.1.noarch.rpm         55 MB/s | 6.0 MB 00:00
-----
Total: 32 MB/s | 9.0 MB 00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing                : 1/1
  Installing tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 1/7
  Running scriptlet: tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 1/7
  Installing tomcat9-el-3.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 2/7
  Running scriptlet: tomcat9-el-3.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 2/7
  Installing tomcat9-jsp-2.3-api-1:9.0.83-1.amzn2023.0.1.noarch : 3/7
  Running scriptlet: tomcat9-jsp-2.3-api-1:9.0.83-1.amzn2023.0.1.noarch : 3/7
  Installing tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 4/7
  Running scriptlet: tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 4/7
  Installing tomcat9-lib-1:9.0.83-1.amzn2023.0.1.noarch : 5/7
  Running scriptlet: tomcat9-lib-1:9.0.83-1.amzn2023.0.1.noarch : 5/7
  Installing tomcat9-1:9.0.83-1.amzn2023.0.1.noarch : 6/7
  Running scriptlet: tomcat9-1:9.0.83-1.amzn2023.0.1.noarch : 6/7
  Verifying tomcat9-el-3.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
  Verifying tomcat9-jsp-2.3-api-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
  Verifying tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
  Verifying tomcat9-lib-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
  Verifying tomcat9-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
```

```
ec2-user@ip-10-180-0-150:~$ sudo yum install tomcat9
Running scriptlet: tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 1/7
Installing tomcat9-el-3.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 2/7
Running scriptlet: tomcat9-el-3.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 2/7
Installing tomcat9-jsp-2.3-api-1:9.0.83-1.amzn2023.0.1.noarch : 3/7
Running scriptlet: tomcat9-jsp-2.3-api-1:9.0.83-1.amzn2023.0.1.noarch : 3/7
Installing tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 4/7
Running scriptlet: tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 4/7
Installing tomcat9-lib-1:9.0.83-1.amzn2023.0.1.noarch : 5/7
Running scriptlet: tomcat9-lib-1:9.0.83-1.amzn2023.0.1.noarch : 5/7
Installing tomcat9-1:9.0.83-1.amzn2023.0.1.noarch : 6/7
Running scriptlet: tomcat9-1:9.0.83-1.amzn2023.0.1.noarch : 6/7
Verifying tomcat9-el-3.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
Verifying tomcat9-jsp-2.3-api-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
Verifying tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
Verifying tomcat9-lib-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
Verifying tomcat9-1:9.0.83-1.amzn2023.0.1.noarch : 7/7
Installed:
ecj-1:4.23-1.amzn2023.0.4.noarch
javapackages-tools-6.0.0-7.amzn2023.0.6.noarch
tomcat9-1:9.0.83-1.amzn2023.0.1.noarch
tomcat9-el-3.0-api-1:9.0.83-1.amzn2023.0.1.noarch
tomcat9-jsp-2.3-api-1:9.0.83-1.amzn2023.0.1.noarch
tomcat9-lib-1:9.0.83-1.amzn2023.0.1.noarch
tomcat9-servlet-4.0-api-1:9.0.83-1.amzn2023.0.1.noarch
Complete!
```

## Check All installed Softwares:

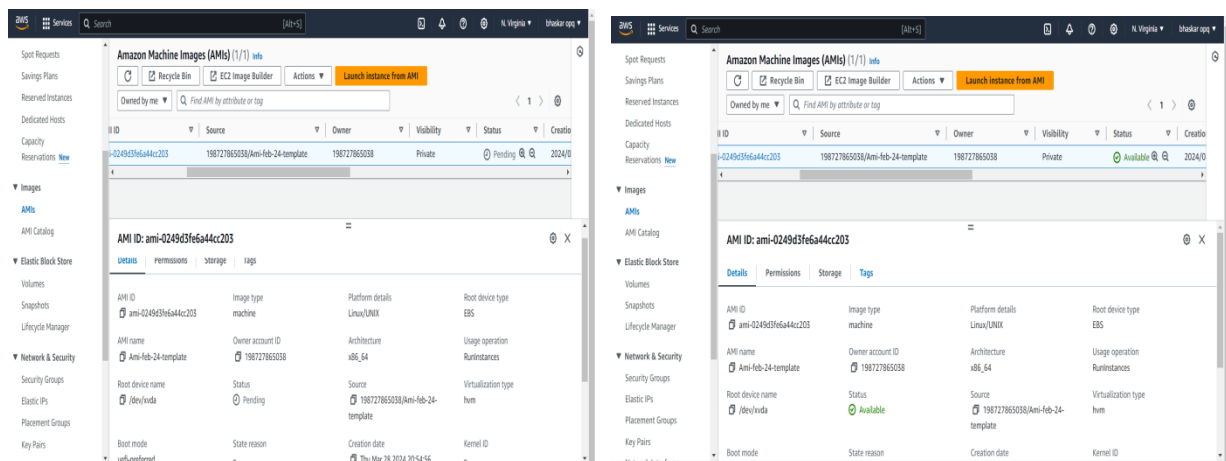
```
ec2-user@ip-10-180-0-150:~$ java --version
openjdk 21.0.2 2024-01-16 LTS
OpenJDK Runtime Environment Corretto-21.0.2.14.1 (build 21.0.2+14-LTS)
OpenJDK 64-Bit Server VM Corretto-21.0.2.14.1 (build 21.0.2+14-LTS, mixed mode, sharing)
ec2-user@ip-10-180-0-150:~$ git --version
git version 2.40.1
ec2-user@ip-10-180-0-150:~$ mvn --version
Apache Maven 3.8.4 (Red Hat 3.8.4-3.amzn2023.0.5)
Maven home: /usr/share/maven
Java version: 17.0.10, vendor: Amazon.com Inc., runtime: /usr/lib/jvm/java-17-amazon-corretto.x86_64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.1.79-99.167.amzn2023.x86_64", arch: "amd64", family: "unix"
ec2-user@ip-10-180-0-150:~$ tomcat9 --version
Usage: /usr/sbin/tomcat9 {start|stop|version} [server-id]
ec2-user@ip-10-180-0-150:~$
```

## 1. Creating image

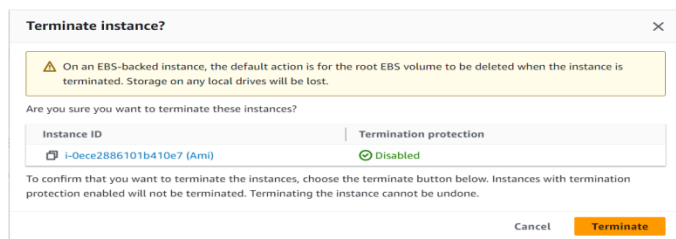


Status: Pending stage

Status: Available



Terminating (Delete) instance



## 2. Selecting our Ami template

aws

Services

Search

[Alt+S]

☰

EC2 > Instances > Launch an Instance

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

Ami from instance created

Add additional tags

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Q Search our full catalog including 1000s of application and OS images

My AMIs

Quick Start

Owned by me

Shared with me

Browse more AMIs
   
Including AMIs from
   
AWS, Marketplace and
   
the Community

Amazon Machine Image (AMI)

Ami-feb-24-template

ami-0249d3fe6a44cc203

2024-03-28T15:24:56.000Z

Virtualization: hvm

ENA enabled: true

Root device type: ebs

Q |

Ami-feb-24-template

ami-0249d3fe6a44cc203

2024-03-28T15:24:56.000Z

Virtualization: hvm

ENA enabled: true

Root device type: ebs

architecture

ami-0249d3fe6a44cc203

x86\_64

▼ Instance type [Info](#) [Get advice](#)

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true  
On-Demand Windows base pricing: 0.0162 USD per Hour  
On-Demand SUSE base pricing: 0.0116 USD per Hour  
On-Demand RHEL base pricing: 0.0716 USD per Hour  
On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible

▼

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ 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

Ami

▼

↺

Create new key pair

Network settings

Info

VPC - required

Info

vpc-0b6b61ab36ff1c384 (Devops)

10.180.0.0/16

Subnet

Info

subnet-0c11a59b8147a7dd9

PublicSubNet1

VPC: vpc-0b6b61ab36ff1c384 Owner: 198727865038 Availability Zone: us-east-1f IP addresses available: 250 CIDR: 10.180.0.0/24

Create new subnet

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

Security group name - required

launch-wizard-9

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_-./!@,.[+&|]\$\*

A screenshot of the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and various utility icons. The breadcrumb trail shows 'EC2 > Instances > Launch an instance'. A blue progress bar indicates the 'Launching Instance' process is at 21% completion, specifically showing 'Creating security group rules'. Below the progress bar, there is a 'Details' link. At the bottom, a message states: 'Please wait while we launch your instance. Do not close your browser while this is loading.'

[EC2](#) > [Instances](#) > Launch an instance

✔ **Success**  
Successfully initiated launch of instance (i-025ac80df5f1b7938)


Instances (1/1) Info

↺


Connect

Instance state ▾


Actions ▾









Launch instances 

All states ▾



Instance ID = i-025ac80df5f1b7938 


Clear filters

< 1 > 

<input checked="" type="checkbox"/>	Name 	Instance ID	Instance state 	Instance type 	Status check	Alarm status	Availability 
<input checked="" type="checkbox"/>	Ami_from_inst...	i-025ac80df5f1b7938	 Running  	t2.micro	 Initializing	<a href="#">View alarms +</a>	us-east-1f



 Services  Search [Alt+S]



[EC2](#) > [Instances](#) > [i-025ac80df5f1b7938](#) > [Connect to instance](#)

## Connect to instance Info

Connect to your instance i-025ac80df5f1b7938 (Ami\_from\_instance\_created) using any of these options


EC2 Instance Connect



Session Manager

**SSH client**


EC2 serial console


Instance ID


 i-025ac80df5f1b7938 (Ami\_from\_instance\_created)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is Ami.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
 `chmod 400 "Ami.pem"`
4. Connect to your instance using its Public IP:  
 `3.230.143.187`

Example:

 `ssh -i "Ami.pem" root@3.230.143.187`

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

 CloudShell [Feedback](#)

```
OS name: "linux", version: "6.1.79-99.167.amzn2023.x86_64", arch: "amd64", family: "unix"  
[ec2-user@ip-10-180-0-203 ~]$  
usage: /usr/sbin/tomcat9 {start|stop|version} [server-id]  
[ec2-user@ip-10-180-0-150 ~]$ client_loop: send disconnect: Connection reset by peer  
  
DELL LAPTOPWIDEKSTOP-203S130 MINGW64 ~/Desktop/New folder (new_branch)  
$ ssh -i "Ami.pen" root@3.230.143.187  
The authenticity of host '3.230.143.187 (3.230.143.187)' can't be established.  
EDB5519 key fingerprint is SHA256:VUKVlH3wR/QSzi2yVtM1+zu/9XTmY/GPm85vFdGk.  
This key is not known by any other names.  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '3.230.143.187' (EDB5519) to the list of known hosts.  
Please login as the user 'ec2-user' rather than the user 'root'.  
  
^CConnection to 3.230.143.187 closed.  
  
DELL LAPTOPWIDEKSTOP-203S130 MINGW64 ~/Desktop/New folder (new_branch)  
$ ssh -i "Ami.pen" ec2-user@3.230.143.187  
  
Amazon Linux 2023  
  
https://aws.amazon.com/linux/amazon-linux-2023  
  
Last login: Thu Mar 28 15:13:50 2024 from 157.50.6.179  
[ec2-user@ip-10-180-0-203 ~]$ java --version  
openjdk 21.0.2 2024-01-16 LTS  
OpenJDK Runtime Environment Corretto-21.0.2.14-i (build1 21.0.2+14-LTS)  
OpenJDK 64-bit Server VM Corretto-21.0.2.14-i (Build 21.0.2+14-LTS, mixed mode, sharing)  
[ec2-user@ip-10-180-0-203 ~]$ mvn --version  
Apache Maven 3.8.4 (Red Hat 3.8.4-3.amzn2023.0.5)  
Maven home: /usr/share/maven  
Java version: 17.0.10, vendor: Amazon.com Inc., runtime: /usr/lib/jvm/java-17-amazon-corretto.x86_64  
default locale: en, platform encoding: UTF-8  
OS name: "linux", version: "6.1.79-99.167.amzn2023.x86_64", arch: "amd64", family: "unix"  
[ec2-user@ip-10-180-0-203 ~]$ git --version  
git version 2.40.1  
[ec2-user@ip-10-180-0-203 ~]$ tomcat9 --version  
usage: /usr/sbin/tomcat9 {start|stop|version} [server-id]  
[ec2-user@ip-10-180-0-203 ~]$
```