

# Step-by-Step Guide: Installation of IntelliJ IDEA on Linux private instance at AWS

Scribe 

## 1 Assuming you have SSH into private instance already

```
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=440 ttl=102 time=1.80 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=441 ttl=102 time=1.85 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=442 ttl=102 time=1.84 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=443 ttl=102 time=1.87 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=444 ttl=102 time=1.86 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=445 ttl=102 time=1.79 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=446 ttl=102 time=1.78 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=447 ttl=102 time=1.86 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=448 ttl=102 time=1.82 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=449 ttl=102 time=1.85 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=450 ttl=102 time=1.88 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=451 ttl=102 time=2.82 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=452 ttl=102 time=1.87 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=453 ttl=102 time=1.81 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=454 ttl=102 time=1.80 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=455 ttl=102 time=1.78 ms
from wv-in-f100.1e100.net (142.251.163.100): icmp_seq=456 ttl=102 time=1.85 ms

e.com ping statistics ---
ts transmitted, 42 received, 90.7895% packet loss, time 471658ms
vg/max/mdev = 1.764/1.887/2.821/0.189 ms
@ip-10-0-2-131 ~]$ ll

-x. 2 ec2-user ec2-user 30 Oct 13 01:47 privatefiles
@ip-10-0-2-131 ~]$ █

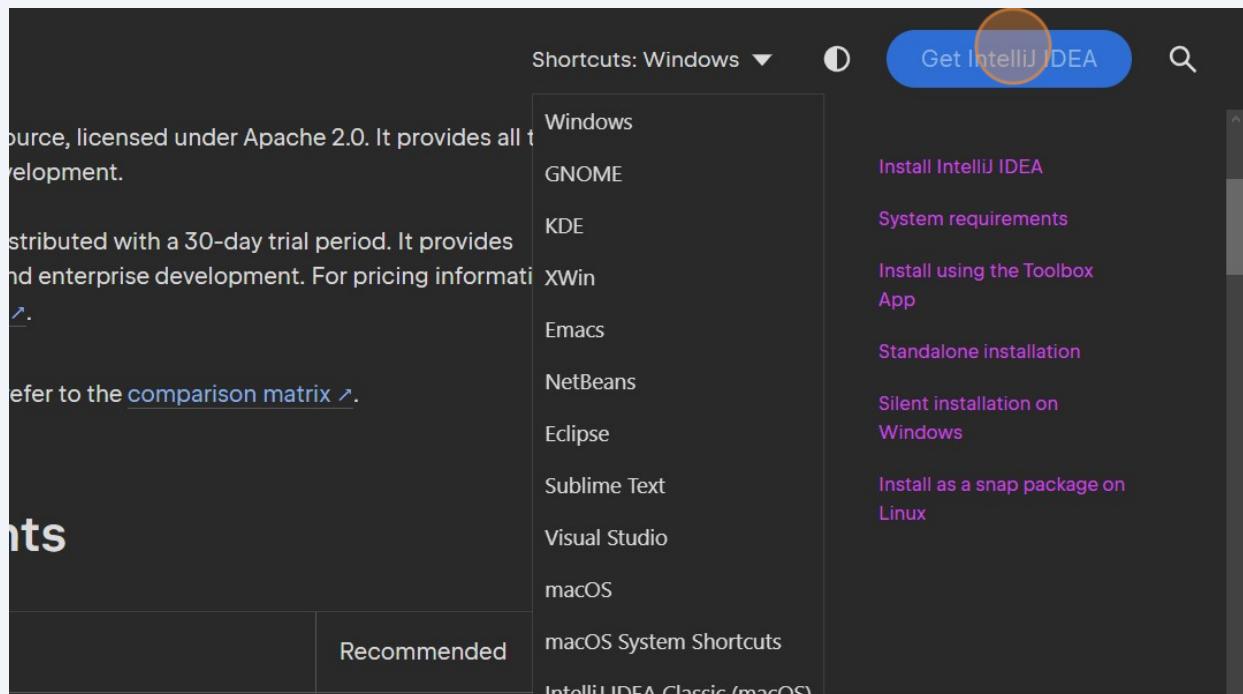
620fb367048f (rootlinuxbastion)
: 23.23.13.38 PrivateIPs: 10.0.1.17


```

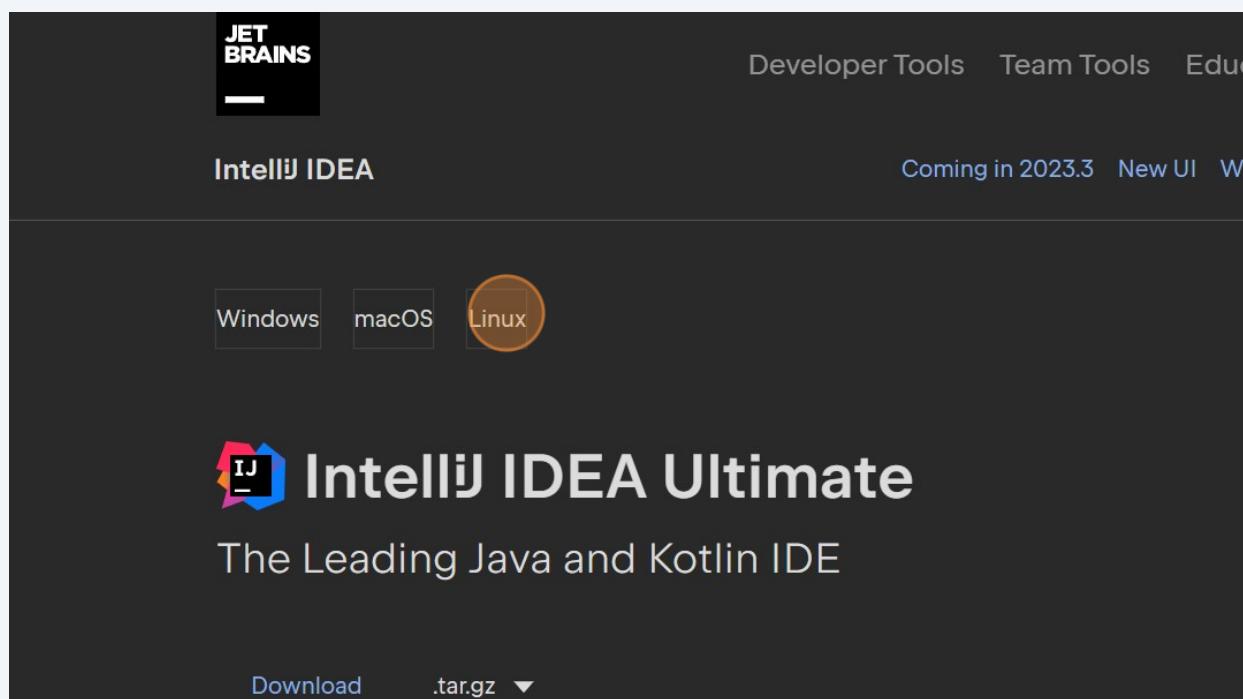
Shell Feedback

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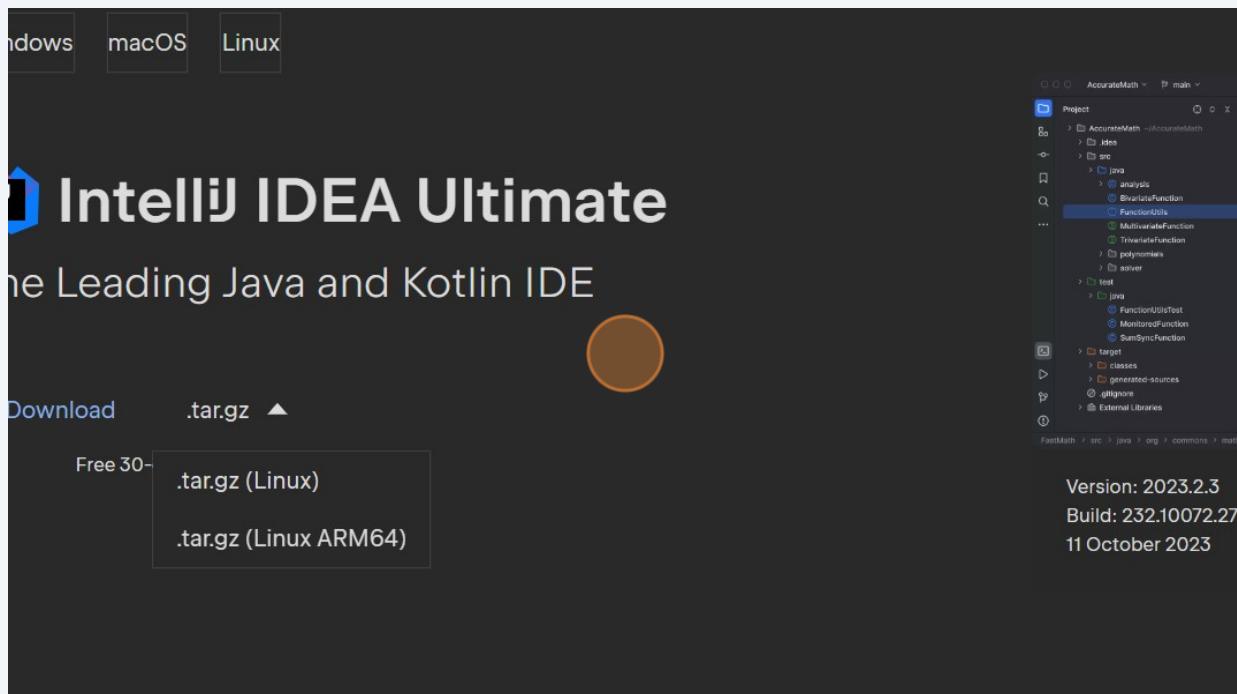
2 "Get IntelliJ IDEA" from website



3 Click "Linux"



- 4 Choose .tar.gz file



- 5 Click "Download"



6

Copy the download url and run the command sudo wget <Copy the url>  
Started downloading to the /opt folder named intellij

The screenshot shows a terminal window within the AWS CloudShell interface. The terminal title is 'Search [Alt+S]'. The AWS navigation bar at the top includes RDS, EFS, VPC, IAM, N. Virginia, and S/Host. The terminal content displays a series of commands and their outputs:

```
2-131 intellij]$ sudo snap install intelliij-idea-community --classic
d not found
2-131 intellij]$ sudo snap install intelliij-dea-community --classic
[...]
2-131 intellij]$ sudo yum install intelliij-dea-community --classic
[...]
2-131 intellij]$ wget https://download-cdn.jetbrains.com/idea/ideaIU-2023.2.3.tar.gz
:00-- https://download-cdn.jetbrains.com/idea/ideaIU-2023.2.3.tar.gz
-cdn.jetbrains.com (download-cdn.jetbrains.com)... 108.138.64.4, 108.138.64.20, 108.138.64.60, ...
load-cdn.jetbrains.com (download-cdn.jetbrains.com)|108.138.64.4|:443... connected.
awaiting response... 200 OK
(1.1G) [binary/octet-stream]
r.gz: Permission denied

ideaIU-2023.2.3.tar.gz' (Permission denied).
2-131 intellij]$ sudo wget https://download-cdn.jetbrains.com/idea/ideaIU-2023.2.3.tar.gz
:07-- https://download-cdn.jetbrains.com/idea/ideaIU-2023.2.3.tar.gz
-cdn.jetbrains.com (download-cdn.jetbrains.com)... 108.138.64.114, 108.138.64.4, 108.138.64.20, ...
load-cdn.jetbrains.com (download-cdn.jetbrains.com)|108.138.64.114|:443... connected.
awaiting response... 200 OK
(1.1G) [binary/octet-stream]
-2023.2.3.tar.gz'
```

The terminal shows a download progress bar for 'r.gz' at 40%, with a speed of 447.00M and an estimated time of 7s remaining. The status bar at the bottom indicates the session is 048f (rootlinuxbastion), the private IP is 10.0.1.17, and the copyright notice: © 2023, Amazon Web Services India Private Limited or its affiliates. It also includes links for Privacy, Terms, and Cookie preferences.

7

you will get a zip file

Extract the file using the below command

**Use the tar command to extract the contents of the .tar.gz file:**

```
tar -xzvf <past the zip file name>
```

-x: Extract the archive.

- -z: Decompress the archive using gzip.
- -v: Verbose mode to see the progress.
- -f: Specify the filename to extract (ideaIU-2023.2.3.tar.gz in this case).

```
-10-13 02:32:00-- https://download-cdn.jetbrains.com/idea/ideaIU-2023.2.3.tar.gz
ing download-cdn.jetbrains.com (download-cdn.jetbrains.com)... 108.138.64.4, 108.138.64.20, 108.138.64.60, ...
ting to download-cdn.jetbrains.com (download-cdn.jetbrains.com)|108.138.64.4|:443... connected.
equest sent, awaiting response... 200 OK
: 1154365472 (1.1G) [binary/octet-stream]
-2023.2.3.tar.gz: Permission denied

write to 'ideaIU-2023.2.3.tar.gz' (Permission denied).
ser@ip-10-0-2-131 intelijj$ sudo wget https://download-cdn.jetbrains.com/idea/ideaIU-2023.2.3.tar.gz
-10-13 02:32:17-- https://download-cdn.jetbrains.com/idea/ideaIU-2023.2.3.tar.gz
ing download-cdn.jetbrains.com (download-cdn.jetbrains.com)... 108.138.64.114, 108.138.64.4, 108.138.64.20, ...
ting to download-cdn.jetbrains.com (download-cdn.jetbrains.com)|108.138.64.114|:443... connected.
equest sent, awaiting response... 200 OK
: 1154365472 (1.1G) [binary/octet-stream]
to: 'ideaIU-2023.2.3.tar.gz'

-2023.2.3.tar.gz          100%[=====] 0.00B/s
0-13 02:32:32 (70.2 MB/s) - 'ideaIU-2023.2.3.tar.gz' saved [1154365472/1154365472]

ser@ip-10-0-2-131 intelijj$ ll
1127312
-r--. 1 root root 1154365472 Oct 11 14:27 ideaIU-2023.2.3.tar.gz
ser@ip-10-0-2-131 intelijj$ tar -xzvf ideaIU-2023.2.3.tar.gz
8fe620fb367048f (rootlinuxbastion)
clPs: 23.23.13.38  PrivateIPs: 10.0.1.17

```

CloudShell   Feedback

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## 8 Extraction completed

A screenshot of an AWS CloudShell terminal window. The terminal shows the extraction of Java files from a tar.gz archive. The output of the command `tar -xvf ideaIU-2023.2.3.tar.gz` is displayed, listing various Java header files like `javac.h`, `jmap.h`, and `jni\_md.h`. The terminal also shows the current directory as `/root/idea-2023.2.3/bin` and the user as `rootlinuxbastion`.

```
Search [Alt+S] RDS EFS VPC IAM
27/jbr/bin/serialver
27/jbr/bin/jstack
27/jbr/bin/jhsdb
27/jbr/bin/javac
27/jbr/bin/jmap
27/jbr/bin/jcmd
27/jbr/bin/jps
27/jbr/bin/jdb
27/jbr/bin/rmiregistry
27/jbr/bin/jfr
27/jbr/bin/keytool
27/jbr/bin/javadoc
27/jbr/bin/jrunscript
27/jbr/bin/jstat
27/jbr/bin/java
27/jbr/bin/jinfo
27/jbr/include/
27/jbr/include/jni.h
27/jbr/include/jawt.h
27/jbr/include/jvmticmlr.h
27/jbr/include/jvmti.h
27/jbr/include/jdwpTransport.h
27/jbr/include/linux/
27/jbr/include/linux/jni_md.h
27/jbr/include/linux/jawt_md.h
27/jbr/include/classfile_constants.h
27/jbr/release
27/
27/product-info.json
2-131 inteliij]$ []
048f (rootlinuxbastion)
Private IPs: 10.0.1.17
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```

## 9 Go to the location where the file has been extracted

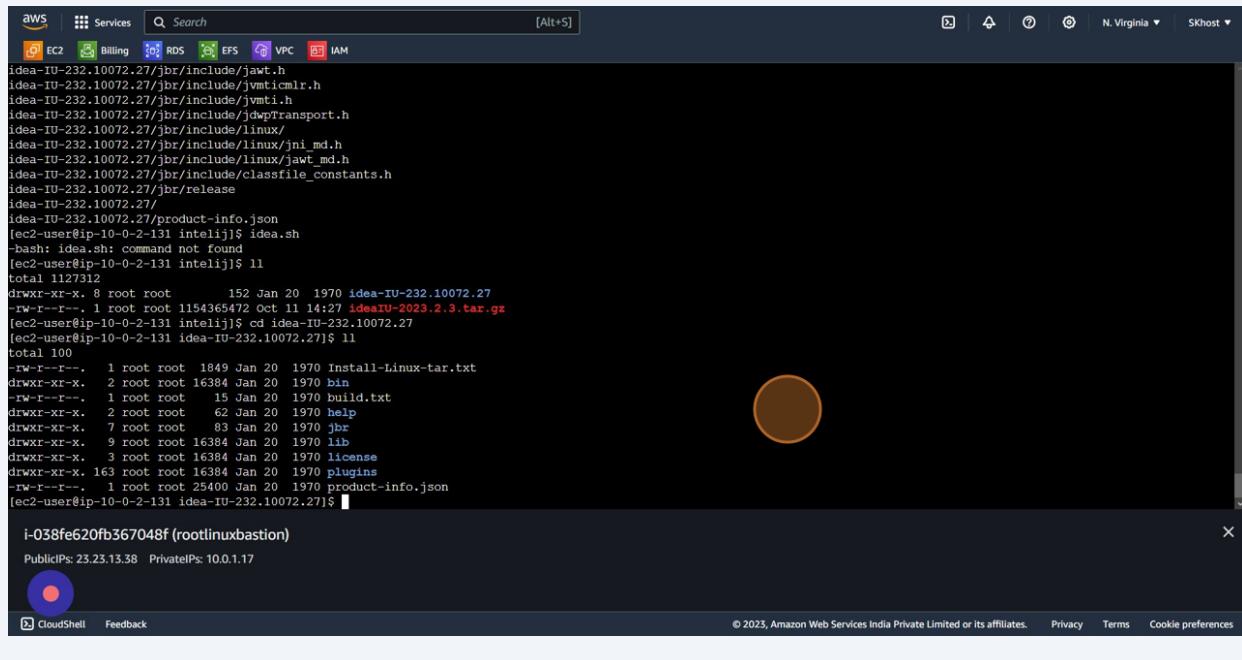
A screenshot of a terminal window showing the user navigating to the directory where Java files were extracted. The user runs `cd /root/idea-2023.2.3/bin` to change the working directory. The terminal shows the current directory as `/root/idea-2023.2.3/bin` and the user as `rootlinuxbastion`.

```
e/jawt.h
e/jvmticmlr.h
e/jvmti.h
e/jdwpTransport.h
e/linux/
e/linux/jni_md.h
e/linux/jawt_md.h
e/classfile_constants.h
e

fo.json
]$ idea.sh
nd
]$ ll
152 Jan 20 1970 idea-IU-232.10072.27
472 Oct 11 14:27 ideaIU-2023.2.3.tar.gz
]$ cd [REDACTED]
xbastion)
.1.17
© 2023, Amazon Web Services India Private
```

10

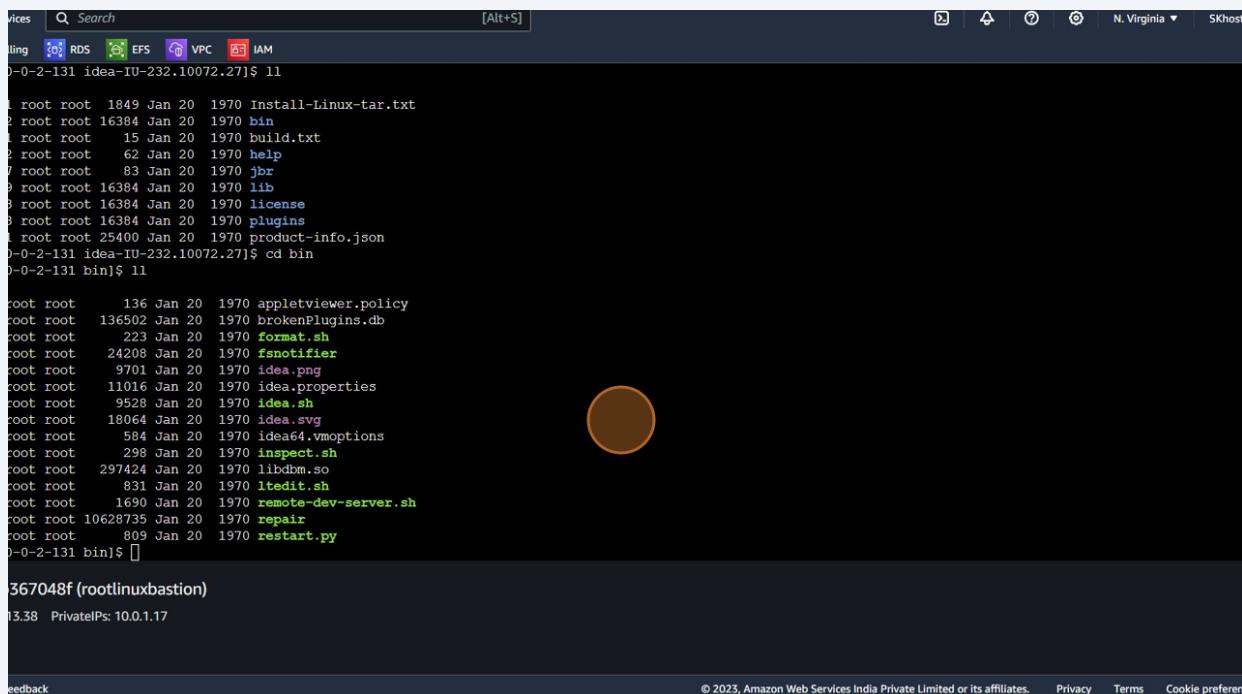
Since the Bash script to run the intellij program resides in /bin/idea.sh  
Go to the location



```
aws | Services | Search [Alt+S] | N. Virginia | SHost
EC2 Billing RDS EFS VPC IAM
idea-IU-232.10072.27/jbr/include/jawt.h
idea-IU-232.10072.27/jbr/include/jvmclr.h
idea-IU-232.10072.27/jbr/include/jvmti.h
idea-IU-232.10072.27/jbr/include/jdwp/transport.h
idea-IU-232.10072.27/jbr/include/linux/
idea-IU-232.10072.27/jbr/include/linux/jni_md.h
idea-IU-232.10072.27/jbr/include/linux/jawt_md.h
idea-IU-232.10072.27/jbr/include/classfile_constants.h
idea-IU-232.10072.27/jbr/release
idea-IU-232.10072.27/
idea-IU-232.10072.27/product-info.json
[ec2-user@ip-10-0-2-131 intellij]$ idea.sh
-bash: idea.sh: command not found
[ec2-user@ip-10-0-2-131 intellij]$ ll
total 1127312
drwxr-xr-x. 8 root root 154 Jan 20 1970 idea-IU-232.10072.27
-rw-r--r--. 1 root root 1154365472 oct 11 14:27 idea-IU-232.10072.27.tar.gz
[ec2-user@ip-10-0-2-131 intellij]$ cd idea-IU-232.10072.27
[ec2-user@ip-10-0-2-131 idea-IU-232.10072.27]$ ll
total 100
-rw-r--r--. 1 root root 1849 Jan 20 1970 Install-Linux-tar.txt
drwxr-xr-x. 2 root root 16384 Jan 20 1970 bin
-rw-r--r--. 1 root root 15 Jan 20 1970 build.txt
drwxr-xr-x. 2 root root 62 Jan 20 1970 help
drwxr-xr-x. 7 root root 83 Jan 20 1970 jbr
drwxr-xr-x. 9 root root 16384 Jan 20 1970 lib
drwxr-xr-x. 3 root root 16384 Jan 20 1970 license
drwxr-xr-x. 163 root root 16384 Jan 20 1970 plugins
-rw-r--r--. 1 root root 25400 Jan 20 1970 product-info.json
[ec2-user@ip-10-0-2-131 idea-IU-232.10072.27]$ ll
i-038fe620fb367048f (rootlinuxbastion)
PublicIPs: 23.23.13.38 PrivateIPs: 10.0.1.17
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```

11

Find idea.sh script file



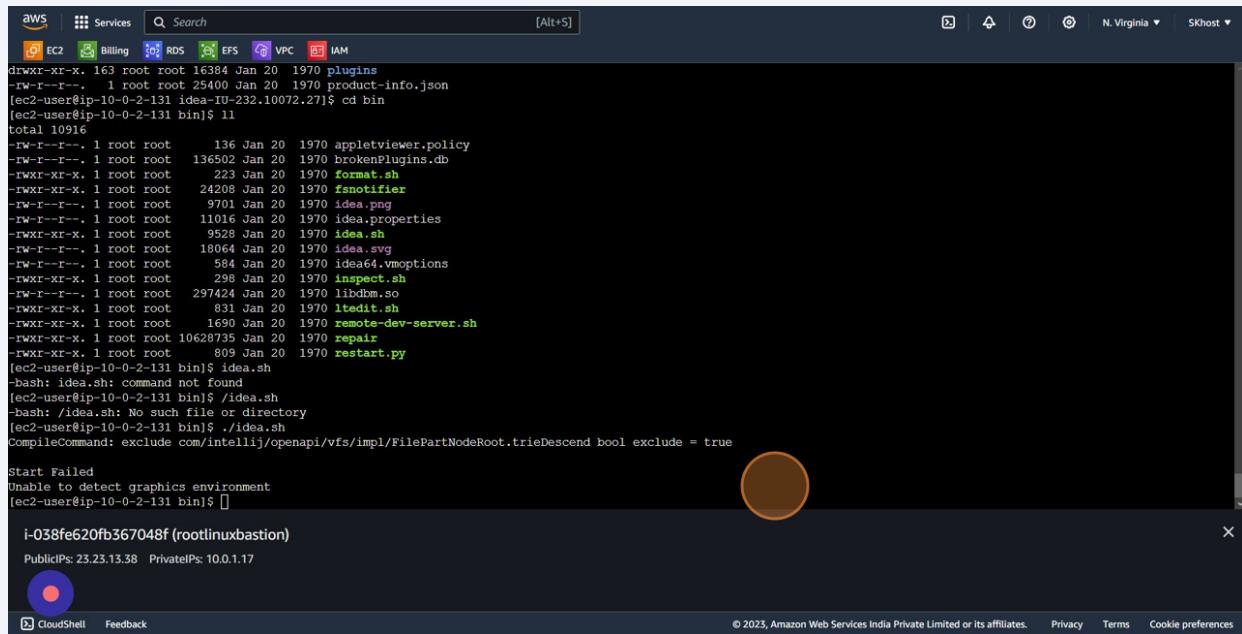
```
Services | Search [Alt+S] | N. Virginia | SHost
Billing RDS EFS VPC IAM
0-0-2-131 idea-IU-232.10072.27]$ ll
1 root root 1849 Jan 20 1970 Install-Linux-tar.txt
2 root root 16384 Jan 20 1970 bin
1 root root 15 Jan 20 1970 build.txt
2 root root 62 Jan 20 1970 help
7 root root 83 Jan 20 1970 jbr
9 root root 16384 Jan 20 1970 lib
9 root root 16384 Jan 20 1970 license
9 root root 16384 Jan 20 1970 plugins
1 root root 25400 Jan 20 1970 product-info.json
0-0-2-131 idea-IU-232.10072.27]$ cd bin
0-0-2-131 bin]$ ll
root root 136 Jan 20 1970 appletviewer.policy
root root 136502 Jan 20 1970 brokenPlugins.db
root root 223 Jan 20 1970 format.sh
root root 24208 Jan 20 1970 fsnotifier
root root 9701 Jan 20 1970 idea.png
root root 11016 Jan 20 1970 idea.properties
root root 9528 Jan 20 1970 idea.sh
root root 18064 Jan 20 1970 idea.svg
root root 584 Jan 20 1970 idea64.vmoptions
root root 298 Jan 20 1970 inspect.sh
root root 297424 Jan 20 1970 libddm.so
root root 831 Jan 20 1970 ltedit.sh
root root 1690 Jan 20 1970 remote-dev-server.sh
root root 10628735 Jan 20 1970 repair
root root 809 Jan 20 1970 restart.py
0-0-2-131 bin]$ ll
367048f (rootlinuxbastion)
13.38 PrivateIPs: 10.0.1.17
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```

12

run below command  
./bash.sh

Output: unable to detect the graphical environment

Reason: We have to enable the Linux GUI version and run the command to execute the intellij program.



The screenshot shows a terminal window within the AWS CloudShell interface. The terminal title is "CloudShell". The user has run the command `./bash.sh`. The output shows the user navigating to the `bin` directory and listing files. The terminal then attempts to run `idea.sh`, which fails because it cannot detect a graphical environment. A brown circle highlights the error message "unable to detect graphics environment".

```
drwxr-xr-x. 163 root root 16384 Jan 20 1970 plugins
-rw-r--r--. 1 root root 25400 Jan 20 1970 product-info.json
[ec2-user@ip-10-0-2-131 idea-IU-232.10072.27]$ cd bin
[ec2-user@ip-10-0-2-131 bin]$ ll
total 10916
-rw-r--r--. 1 root root 136 Jan 20 1970 appletviewer.policy
-rw-r--r--. 1 root root 136502 Jan 20 1970 brokenPlugins.db
-rwxr-xr-x. 1 root root 223 Jan 20 1970 format.sh
-rwxr-xr-x. 1 root root 24208 Jan 20 1970 fsnotifier
-rw-r--r--. 1 root root 9701 Jan 20 1970 idea.png
-rw-r--r--. 1 root root 11016 Jan 20 1970 idea.properties
-rwxr-xr-x. 1 root root 9528 Jan 20 1970 idea.sh
-rw-r--r--. 1 root root 18064 Jan 20 1970 idea.svg
-rw-r--r--. 1 root root 584 Jan 20 1970 idea64.vmoptions
-rwxr-xr-x. 1 root root 298 Jan 20 1970 inspect.sh
-rw-r--r--. 1 root root 297424 Jan 20 1970 libdbm.so
-rwxr-xr-x. 1 root root 831 Jan 20 1970 ltedit.sh
-rwxr-xr-x. 1 root root 1690 Jan 20 1970 remote-dev-server.sh
-rwxr-xr-x. 1 root root 10628735 Jan 20 1970 repair
-rwxr-xr-x. 1 root root 809 Jan 20 1970 restart.PY
[ec2-user@ip-10-0-2-131 bin]$ idea.sh
bash: idea.sh: command not found
[ec2-user@ip-10-0-2-131 bin]$ /idea.sh
bash: /idea.sh: No such file or directory
[ec2-user@ip-10-0-2-131 bin]$ ./idea.sh
CompileCommand: exclude com/intellij/openapi vfs/impl/FilePartNodeRoot.trieDescend bool exclude = true
Start Failed
Unable to detect graphics environment
[ec2-user@ip-10-0-2-131 bin]$ ]
```

i-038fe620fb367048f (rootlinuxbastion)  
PublicIPs: 23.23.13.38 PrivateIPs: 10.0.1.17

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