

SISTEMAS OPERACIONAIS

Preparatório para Sprint – Integração PI



Objetivo

Instalar o Oshi em uma instância EC2 que possui GUI.



Requisitos

- ✓ Uma instância criada e funcionando CORRETAMENTE;
- ✓ Uma GUI instalada e funcionando na instância EC2;

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► Start

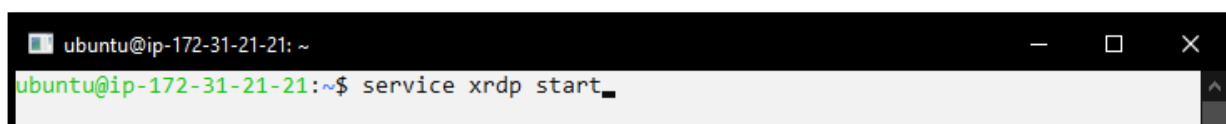
1. Após criar e instalar a GUI na sua instância EC2, siga os próximos passos, para instalar a interface gráfica de monitoramento do Oshi.

Inicie uma conexão SSH com sua instância EC2:

2. Inicie o serviço do RDP(Remote Desktop Protocol)

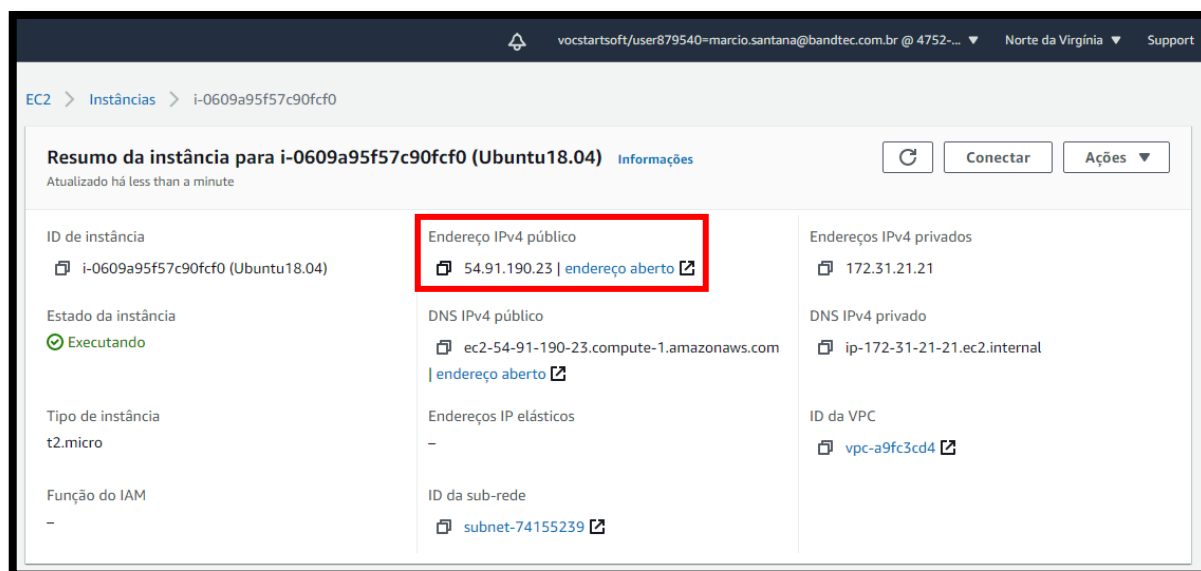
Execute:

`service xrdp start`



```
ubuntu@ip-172-31-21-21: ~
ubuntu@ip-172-31-21-21:~$ service xrdp start
```

3. Após iniciar o serviço do RDP,
Copie o IP Público da sua instância EC2,



EC2 > Instâncias > i-0609a95f57c90fcf0

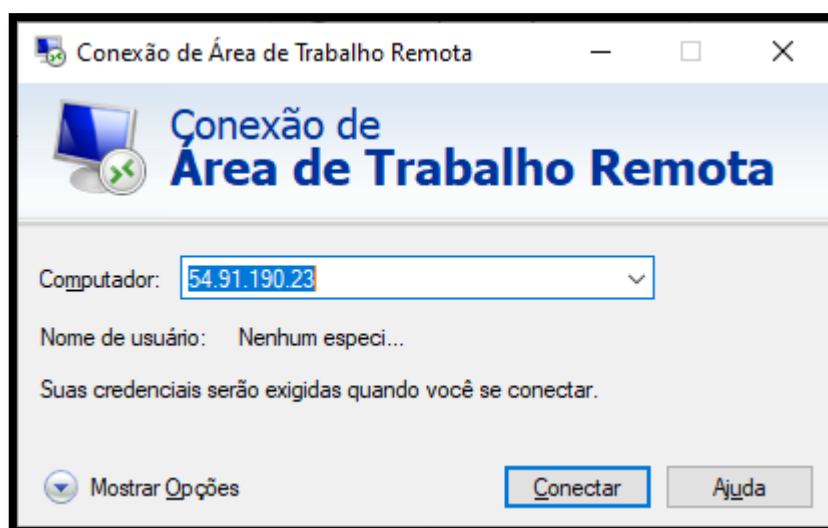
Resumo da instância para i-0609a95f57c90fcf0 (Ubuntu18.04) [Informações](#)

Atualizado há less than a minute

ID de instância	Endereço IPv4 público	Endereços IPv4 privados
i-0609a95f57c90fcf0 (Ubuntu18.04)	54.91.190.23 endereço aberto	172.31.21.21
Estado da instância	DNS IPv4 público	DNS IPv4 privado
Executando	ec2-54-91-190-23.compute-1.amazonaws.com endereço aberto	ip-172-31-21-21.ec2.internal
Tipo de instância	Endereços IP elásticos	ID da VPC
t2.micro	-	vpc-a9fc3cd4
Função do IAM	ID da sub-rede	
-	subnet-74155239	

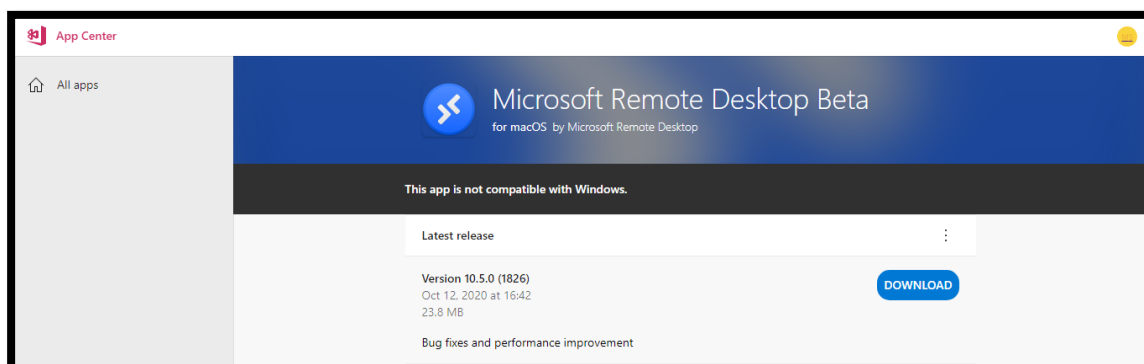
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e faça o acesso remoto nela, faça login com o usuário Ubuntu e senha dele, que foi criada anteriormente.



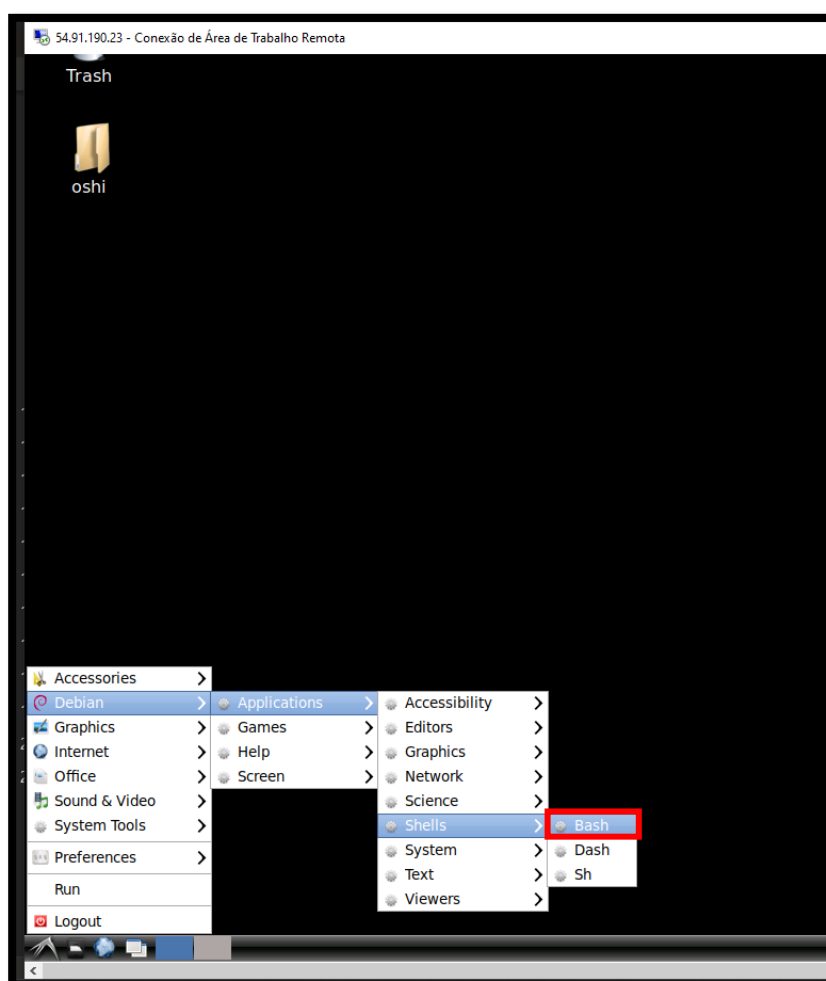
Para usuários de macOS, utilizem o aplicativo abaixo:

[Link: Remote Desktop para macOS](#)



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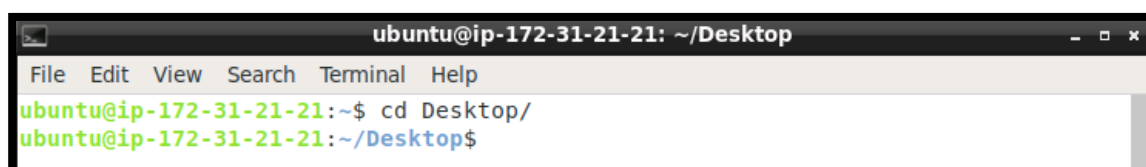
4. Agora com acesso à GUI, inicie o terminal para instalarmos o OSHI.



5. Acesse o diretório do Desktop.

Execute:

cd Desktop

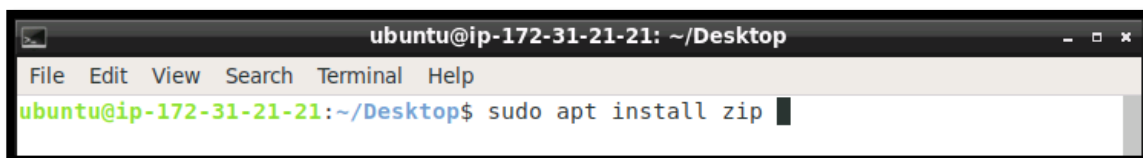


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6. Instale o descompactador de arquivos, era necessário para as próximas instalações.

Execute:

`sudo apt install zip`

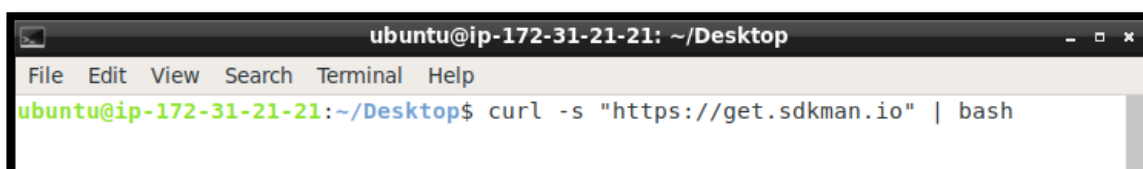


```
ubuntu@ip-172-31-21-21: ~/Desktop
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~/Desktop$ sudo apt install zip
```

7. Adicione o caminho do SDK.

Execute:

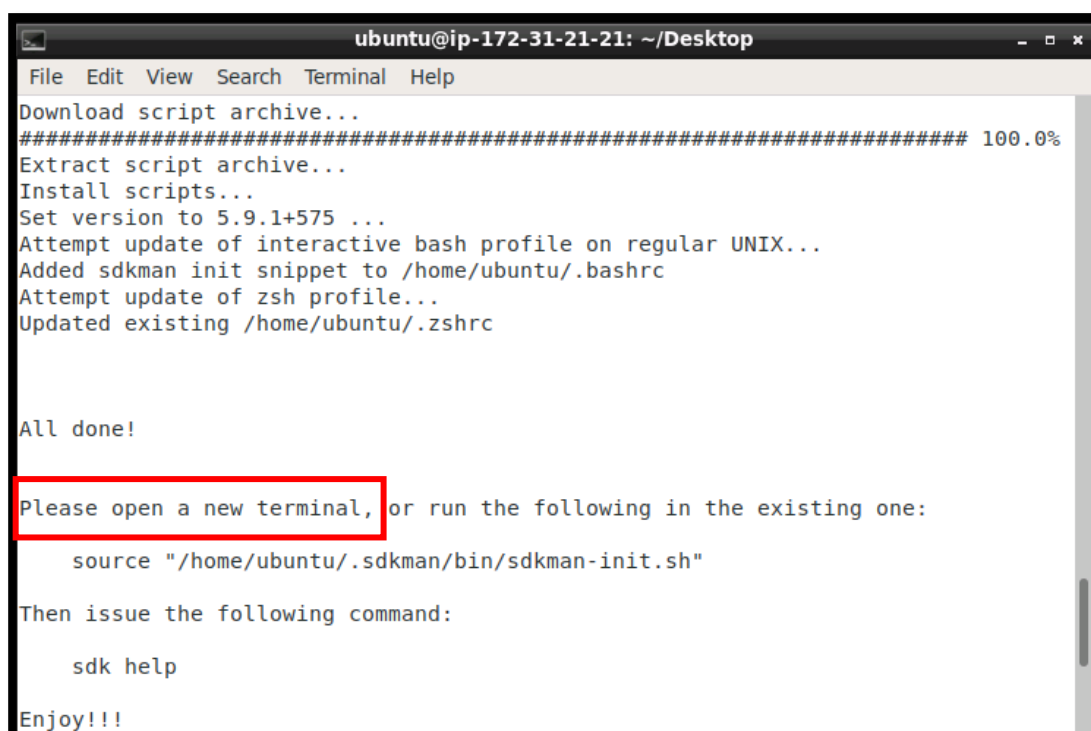
`curl -s "https://get.sdkman.io" | bash`



```
ubuntu@ip-172-31-21-21: ~/Desktop
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~/Desktop$ curl -s "https://get.sdkman.io" | bash
```

8. Deve aparecer uma mensagem como essa abaixo,
Observe que devemos abrir um novo terminal.

Então, feche o terminal atual, e abra um novo terminal.



```
ubuntu@ip-172-31-21-21: ~/Desktop
File Edit View Search Terminal Help
Download script archive...
##### 100.0%
Extract script archive...
Install scripts...
Set version to 5.9.1+575 ...
Attempt update of interactive bash profile on regular UNIX...
Added sdkman init snippet to /home/ubuntu/.bashrc
Attempt update of zsh profile...
Updated existing /home/ubuntu/.zshrc

All done!

Please open a new terminal, or run the following in the existing one:

    source "/home/ubuntu/.sdkman/bin/sdkman-init.sh"

Then issue the following command:

    sdk help

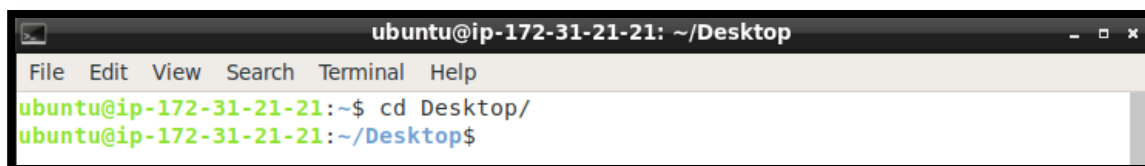
Enjoy!!!
```

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9. Acesse o diretório do Desktop.

Execute:

`cd Desktop`

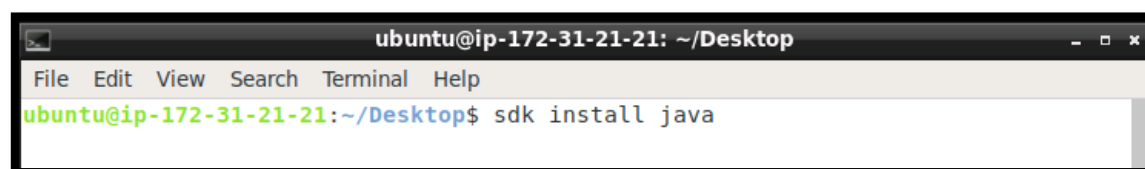


```
ubuntu@ip-172-31-21-21: ~/Desktop
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~$ cd Desktop/
ubuntu@ip-172-31-21-21:~/Desktop$
```

10. Instale o Java, será necessário para que o Oshi funcione.

Execute:

`sdk install java 8.0.272.j9-adpt`

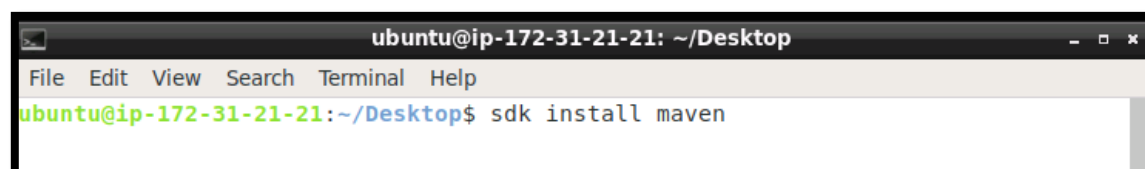


```
ubuntu@ip-172-31-21-21: ~/Desktop
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~/Desktop$ sdk install java
```

11. Instale o Maven, que também será necessário para que o Oshi funcione.

Execute:

`sdk install maven`

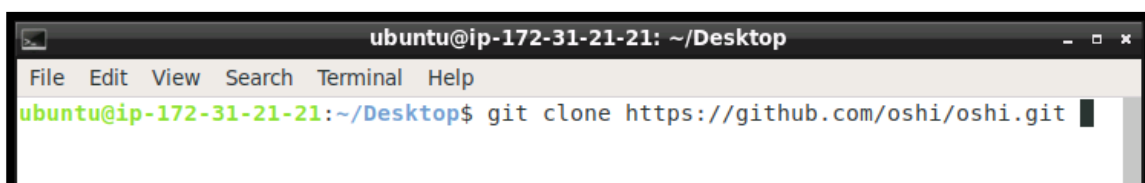


```
ubuntu@ip-172-31-21-21: ~/Desktop
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~/Desktop$ sdk install maven
```

12. Agora clone o repositório do Oshi para o seu Desktop.

Execute:

`git clone https://github.com/oshi/oshi.git`



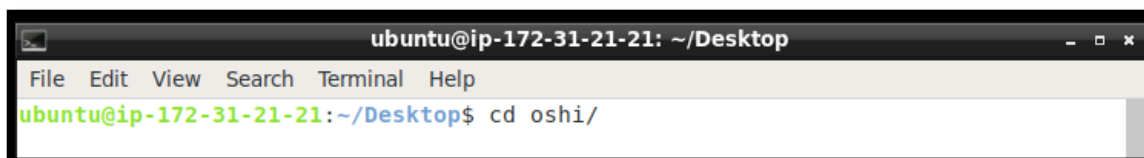
```
ubuntu@ip-172-31-21-21: ~/Desktop
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~/Desktop$ git clone https://github.com/oshi/oshi.git
```

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13. Acesse o novo diretório criado para o Oshi.

Execute:

`cd oshi`



```
ubuntu@ip-172-31-21-21: ~/Desktop
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~/Desktop$ cd oshi/
```

14. Dentro do diretório do oshi, instale o DskipTestes, para pular os testes.


Execute:

`./mvnw install -DskipTests`



```
ubuntu@ip-172-31-21-21: ~/Desktop/oshi
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~/Desktop/oshi$ ./mvnw install -DskipTests
```

Aguarde até ver a mesma mensagem abaixo, e pressione Ctrl + C e aguarde alguns segundos.



```
ubuntu@ip-172-31-21-21: ~/Desktop/oshi
File Edit View Search Terminal Help
enesis/2.6/objenesis-2.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/thoughtworks/q
dox/qdox/2.0-M10/qdox-2.0-M10.jar (317 kB at 365 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plex
us/plexus-io/3.1.1/plexus-io-3.1.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/objenesis/obje
nesis/2.6/objenesis-2.6.jar (56 kB at 62 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plex
us/plexus-interactivity-api/1.0-alpha-6/plexus-interactivity-api-1.0-alpha-6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexu
s/plexus-interactivity-api/1.0-alpha-6/plexus-interactivity-api-1.0-alpha-6.jar
(12 kB at 13 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexu
s/plexus-archiver/3.6.0/plexus-archiver-3.6.0.jar (191 kB at 206 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexu
s/plexus-io/3.1.1/plexus-io-3.1.1.jar (75 kB at 81 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/httpcom
ponents/httpclient/4.5.8/httpclient-4.5.8.jar (772 kB at 804 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons
/commons-compress/1.16.1/commons-compress-1.16.1.jar (560 kB at 568 kB/s)
[INFO] The goal 'org.apache.maven.plugins:maven-javadoc-plugin:3.1.1:javadoc' ha
s not been previously called for the module: 'com.github.oshi:oshi-core:jar:5.3.
2-SNAPSHOT'. Trying to invoke it...
```

Caso demore muito, reinicie sua instância, conecte novamente na GUI, e faça o comando abaixo.

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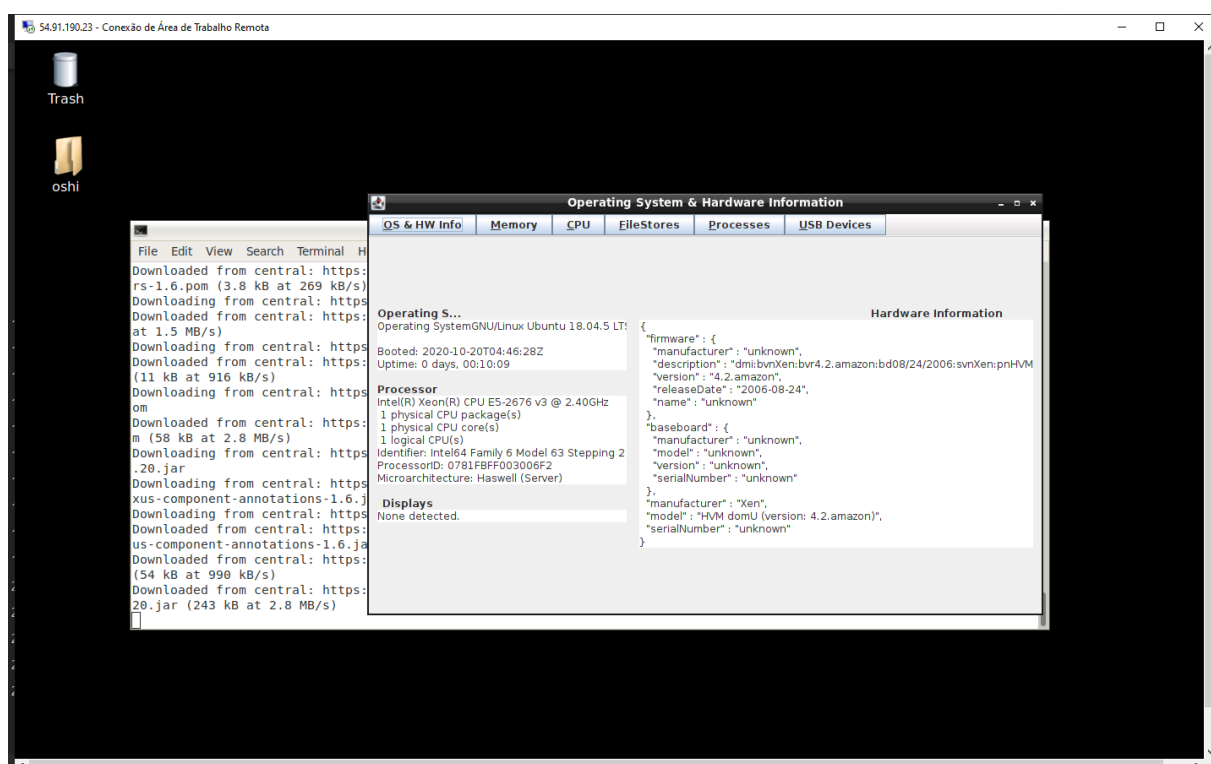
15. Para finalizar faça a compilação e execução do Java.

Execute:

`./mvnw compile -pl oshi-demo exec:java -Dexec.mainClass="oshi.demo.OshiGui"`

```
ubuntu@ip-172-31-21-21: ~/Desktop/oshi
File Edit View Search Terminal Help
ubuntu@ip-172-31-21-21:~/Desktop/oshi$ ./mvnw compile -pl oshi-demo exec:java -Dexec.mainClass="oshi.demo.OshiGui"
```

16. Se tudo foi executado de forma correta, você deve ver a seguinte tela.



 End