

# **Curso Java**

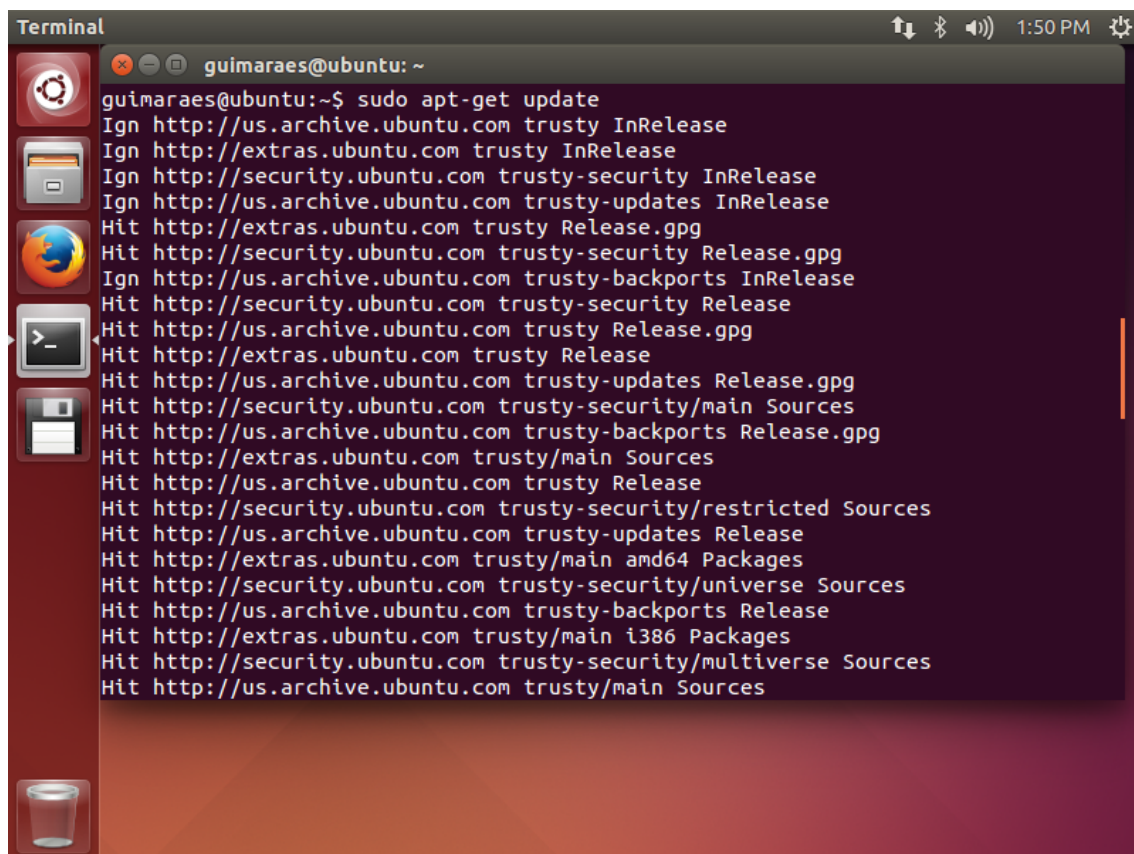
## **com CDI, Primefaces e JPA**

Preparando o sistema Ambiente.

Sistema Operacional: Ubuntu 14

Atualize o sistema operacional:

```
sudo apt-get update
```



```
Terminal
guimaraes@ubuntu: ~
guimaraes@ubuntu:~$ sudo apt-get update
Ign http://us.archive.ubuntu.com trusty InRelease
Ign http://extras.ubuntu.com trusty InRelease
Ign http://security.ubuntu.com trusty-security InRelease
Ign http://us.archive.ubuntu.com trusty-updates InRelease
Hit http://extras.ubuntu.com trusty Release.gpg
Hit http://security.ubuntu.com trusty-security Release.gpg
Ign http://us.archive.ubuntu.com trusty-backports InRelease
Hit http://security.ubuntu.com trusty-security Release
Hit http://us.archive.ubuntu.com trusty Release.gpg
Hit http://extras.ubuntu.com trusty Release
Hit http://us.archive.ubuntu.com trusty-updates Release.gpg
Hit http://security.ubuntu.com trusty-security/main Sources
Hit http://us.archive.ubuntu.com trusty-backports Release.gpg
Hit http://extras.ubuntu.com trusty/main Sources
Hit http://us.archive.ubuntu.com trusty Release
Hit http://security.ubuntu.com trusty-security/restricted Sources
Hit http://us.archive.ubuntu.com trusty-updates Release
Hit http://extras.ubuntu.com trusty/main amd64 Packages
Hit http://security.ubuntu.com trusty-security/universe Sources
Hit http://us.archive.ubuntu.com trusty-backports Release
Hit http://extras.ubuntu.com trusty/main i386 Packages
Hit http://security.ubuntu.com trusty-security/multiverse Sources
Hit http://us.archive.ubuntu.com trusty/main Sources
```

Terminal atualizando o Ubuntu

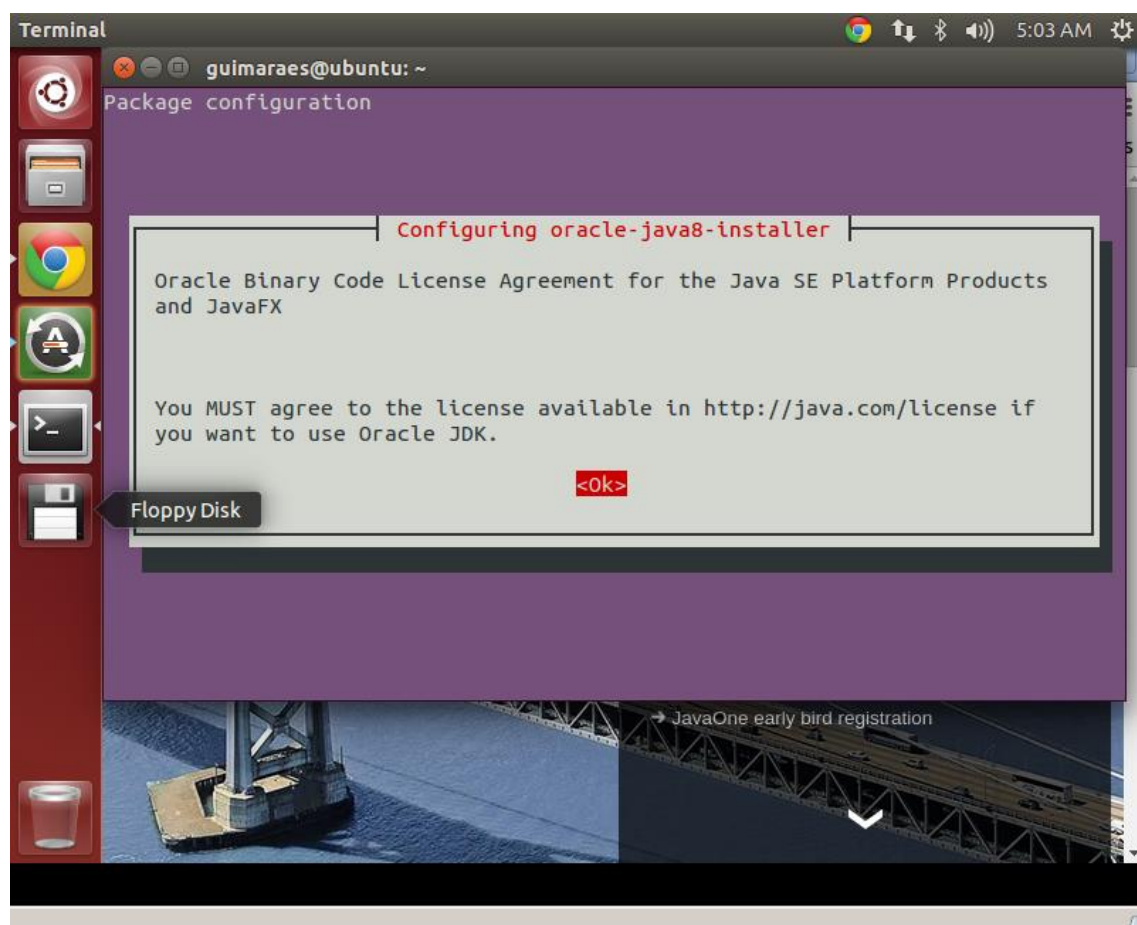
Atualizando o sistema operacional, serão instalados os aplicativos utilizados no curso:

### Google Chrome

```
wget -q -O - https://dl-ssl.google.com/linux/linux_signing_key.pub |  
sudo apt-key add -  
  
sudo sh -c 'echo "deb http://dl.google.com/linux/chrome/deb/ stable  
main" >> /etc/apt/sources.list.d/google.list'  
  
sudo apt-get update ; sudo apt-get install google-chrome-stable -y
```

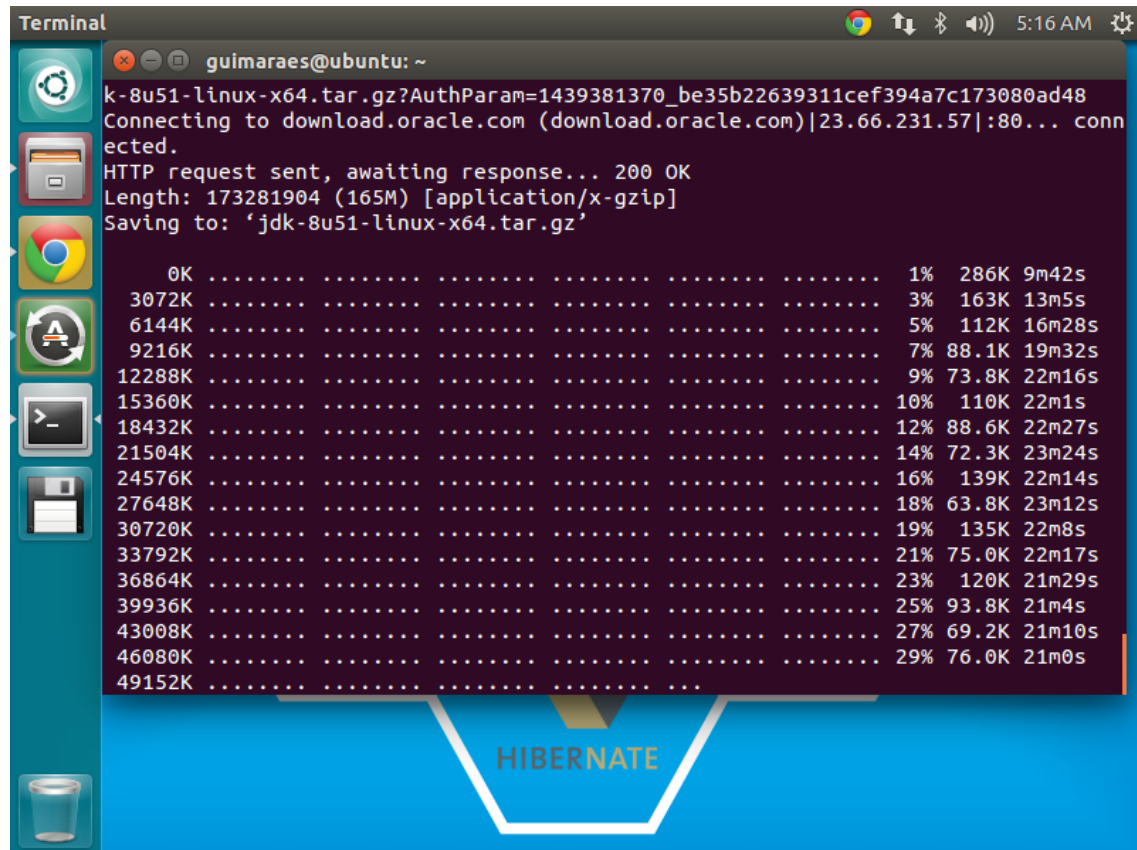
### JDK 8

```
sudo add-apt-repository ppa:webupd8team/java  
sudo apt-get update  
sudo apt-get install oracle-java8-installer
```



*Tela de instalação do JDK 8*

Aguarde o download e instalação do JDK 8:



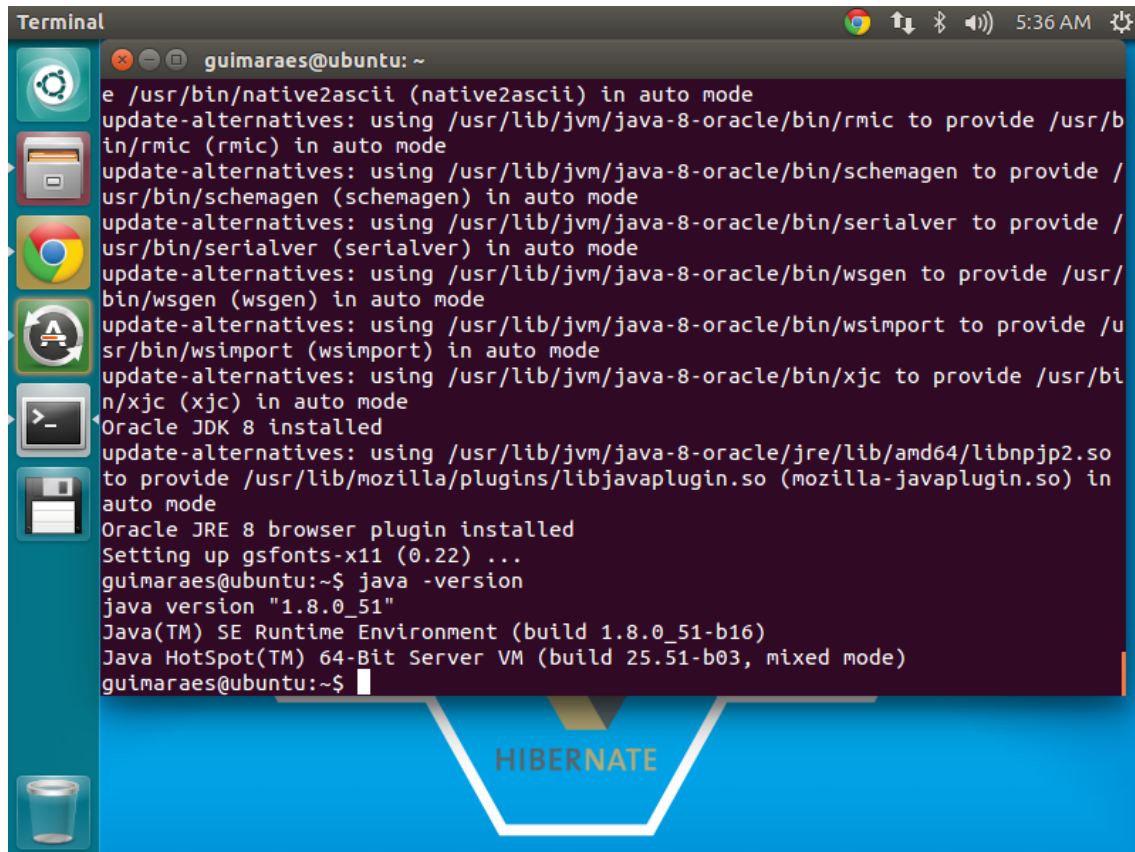
```
Terminal
guimaraes@ubuntu: ~
k-8u51-linux-x64.tar.gz?AuthParam=1439381370_be35b22639311cef394a7c173080ad48
Connecting to download.oracle.com (download.oracle.com)|23.66.231.57|:80... conn
ected.
HTTP request sent, awaiting response... 200 OK
Length: 173281904 (165M) [application/x-gzip]
Saving to: 'jdk-8u51-linux-x64.tar.gz'

 0K ..... 1% 286K 9m42s
3072K ..... 3% 163K 13m5s
6144K ..... 5% 112K 16m28s
9216K ..... 7% 88.1K 19m32s
12288K ..... 9% 73.8K 22m16s
15360K ..... 10% 110K 22m1s
18432K ..... 12% 88.6K 22m27s
21504K ..... 14% 72.3K 23m24s
24576K ..... 16% 139K 22m14s
27648K ..... 18% 63.8K 23m12s
30720K ..... 19% 135K 22m8s
33792K ..... 21% 75.0K 22m17s
36864K ..... 23% 120K 21m29s
39936K ..... 25% 93.8K 21m4s
43008K ..... 27% 69.2K 21m10s
46080K ..... 29% 76.0K 21m0s
49152K .....
```

Tela de download e instalação do JDK 8

Testar a versão do Java e verificar se existe algum erro:

```
java -version
```



```
Terminal
guimaraes@ubuntu: ~
e /usr/bin/native2ascii (native2ascii) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-oracle/bin/rmic to provide /usr/b
in/rmic (rmic) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-oracle/bin/schemagen to provide /
usr/bin/schemagen (schemagen) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-oracle/bin/serialver to provide /
usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-oracle/bin/wsgen to provide /usr/
bin/wsgen (wsgen) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-oracle/bin/wsimport to provide /u
sr/bin/wsimport (wsimport) in auto mode
update-alternatives: using /usr/lib/jvm/java-8-oracle/bin/xjc to provide /usr/bi
n/xjc (xjc) in auto mode
Oracle JDK 8 installed
update-alternatives: using /usr/lib/jvm/java-8-oracle/jre/lib/amd64/libnpjp2.so
to provide /usr/lib/mozilla/plugins/libjavaplugin.so (mozilla-javaplugin.so) in
auto mode
Oracle JRE 8 browser plugin installed
Setting up gsfonts-x11 (0.22) ...
guimaraes@ubuntu:~$ java -version
java version "1.8.0_51"
Java(TM) SE Runtime Environment (build 1.8.0_51-b16)
Java HotSpot(TM) 64-Bit Server VM (build 25.51-b03, mixed mode)
guimaraes@ubuntu:~$
```

*Instalação do JDK 8 instalado e funcionando com sucesso*

Crie uma classe chamada ***"OlaMundo.java"*** para testar o funcionamento do JDK 8.

Classe OlaMundo.java:

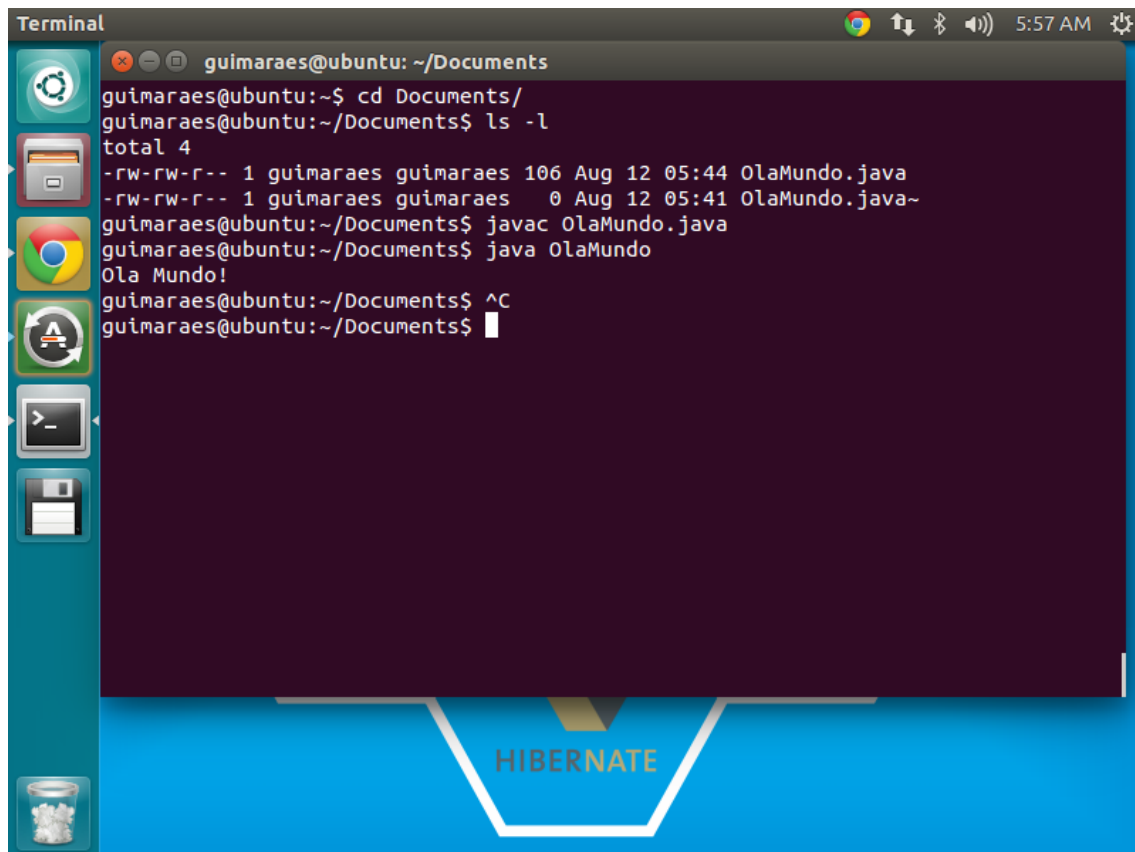
```
public class OlaMundo{
    public static void main(String[] args) {
        System.out.println("Ola Mundo!");
    }
}
```

Entre na pasta onde foi criada a classe OlaMundo.java e execute com os comandos a baixos:

(Entre na pasta onde foi criado a classe OlaMundo.java)

```
cd Documents
javac OlaMundo.java
java OlaMundo
```

Feito isso, devemos ver como resultado a mensagem ***“Ola Mundo!”*** como na saída da classe.



```
Terminal
guimaraes@ubuntu: ~/Documents
guimaraes@ubuntu:~$ cd Documents/
guimaraes@ubuntu:~/Documents$ ls -l
total 4
-rw-rw-r-- 1 guimaraes guimaraes 106 Aug 12 05:44 OlaMundo.java
-rw-rw-r-- 1 guimaraes guimaraes  0 Aug 12 05:41 OlaMundo.java~
guimaraes@ubuntu:~/Documents$ javac OlaMundo.java
guimaraes@ubuntu:~/Documents$ java OlaMundo
Ola Mundo!
guimaraes@ubuntu:~/Documents$ ^C
guimaraes@ubuntu:~/Documents$
```

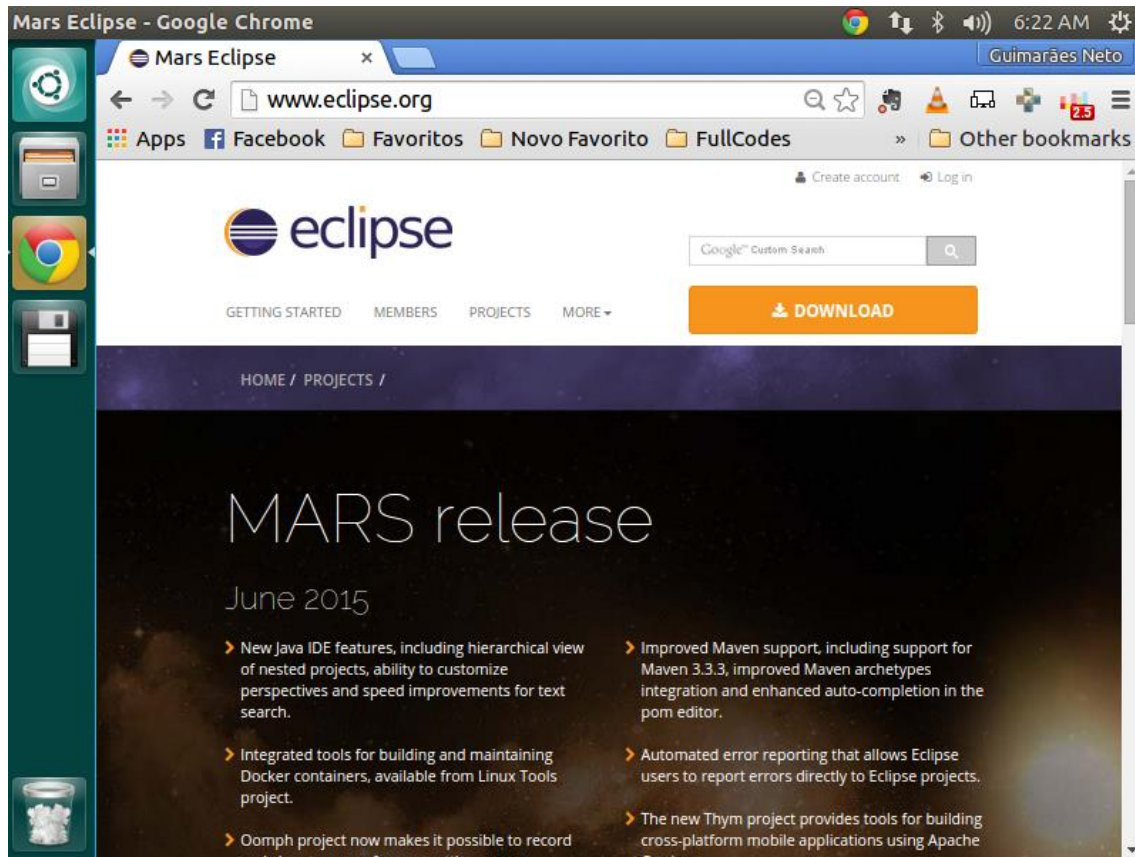
Tela de teste do JDK 8 com a saída da classe OlaMundo.java

Instalação do Eclipse Kepler:

Entre no site

<http://www.eclipse.org/>

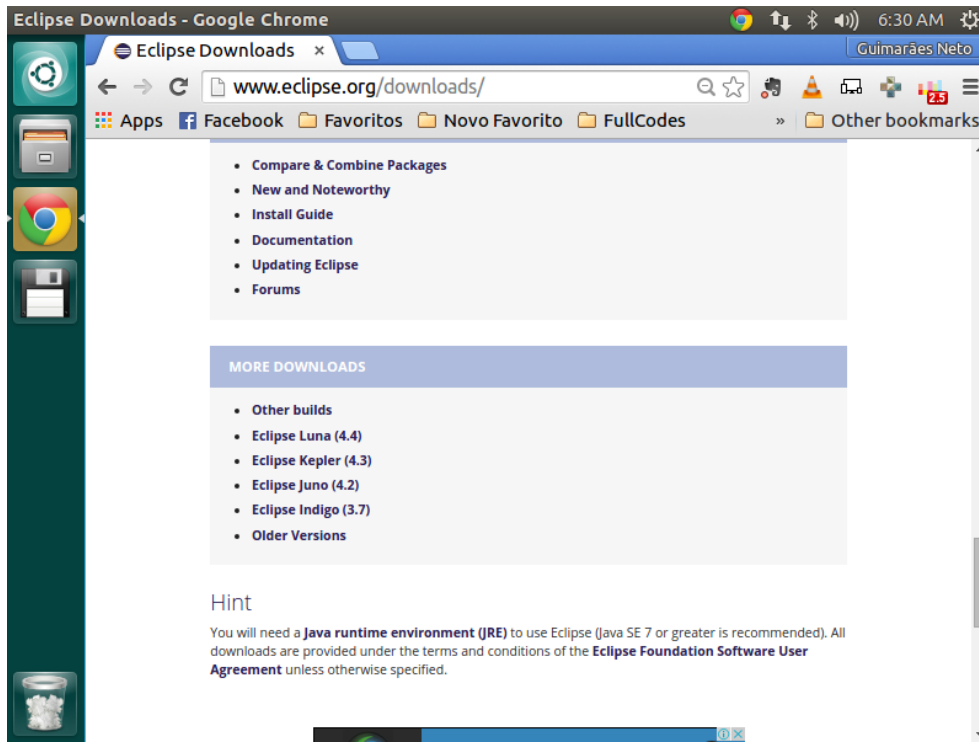




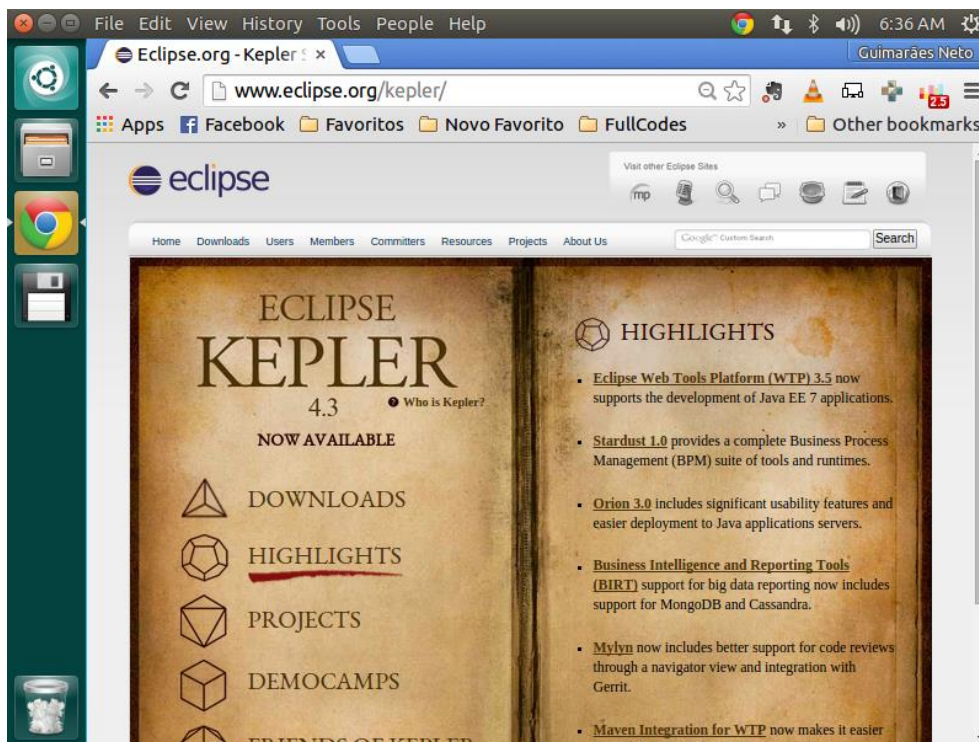
*Site do projeto eclipse*

Clique no ícone **Download** no canto superior direito (botão amarelo), com isso a pagina das soluções do Eclipse. Dessa a tela da pagina e localize a tabela **“More Downloads”**, clique no link da IDE Eclipse Kepler (4.3).

Na tela de Download da IDE Eclipse Kepler, clique no link Download, ao abrir a tela de Download da IDE Eclipse Kepler, clique no link **“Eclipse IDE for Java Developers”**

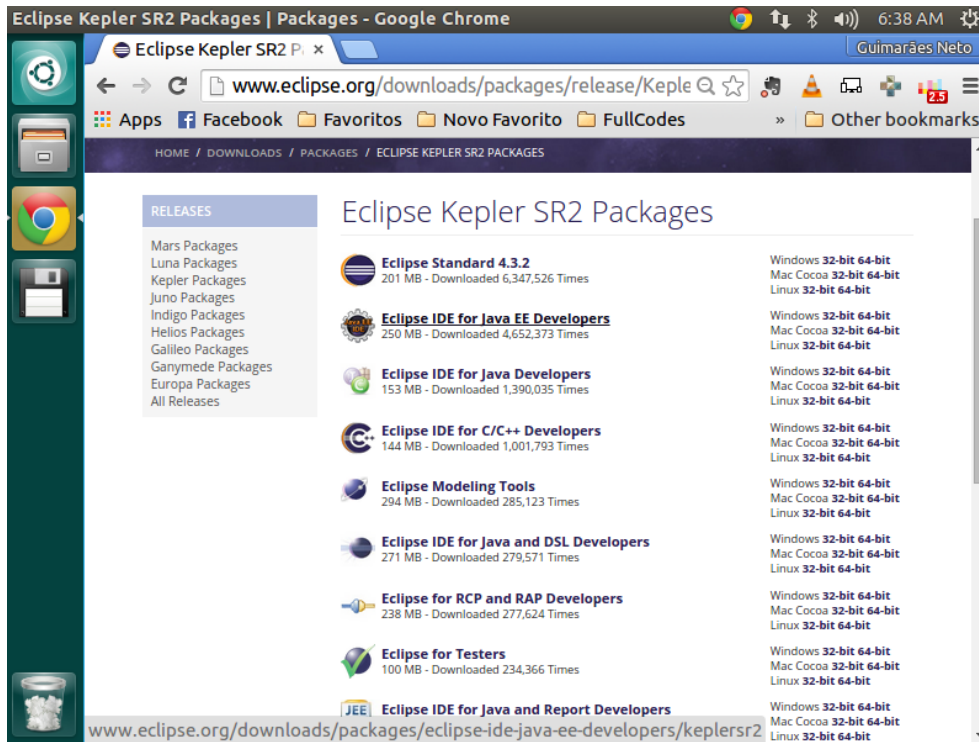


*Tela da tabela de outras versões do Eclipse*

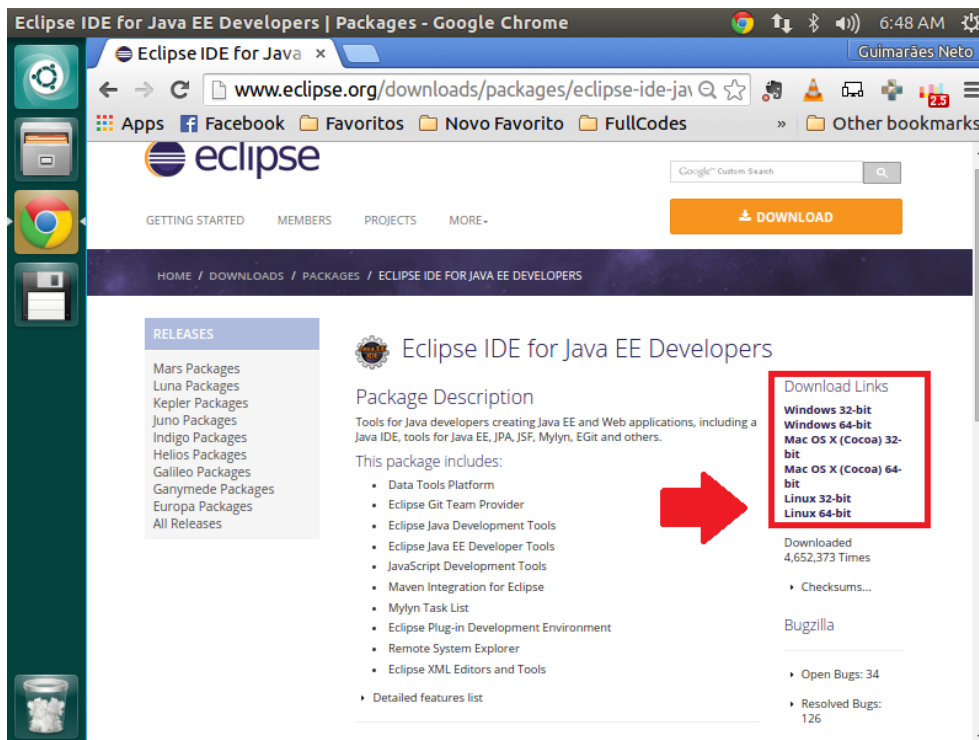


*Tela de Download do Eclipse Kepler (4.3)*

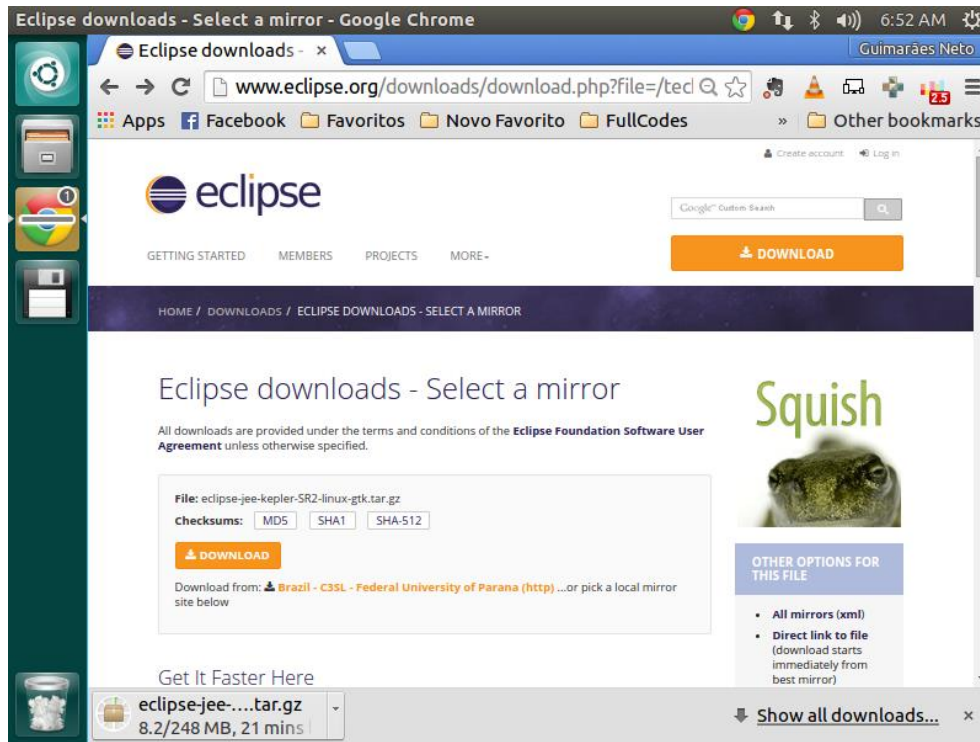




*Clique no link Eclipse IDE for Java EE Developers*



*Selecione no canto esquerdo a versão mais adequada para seu sistema operacional*

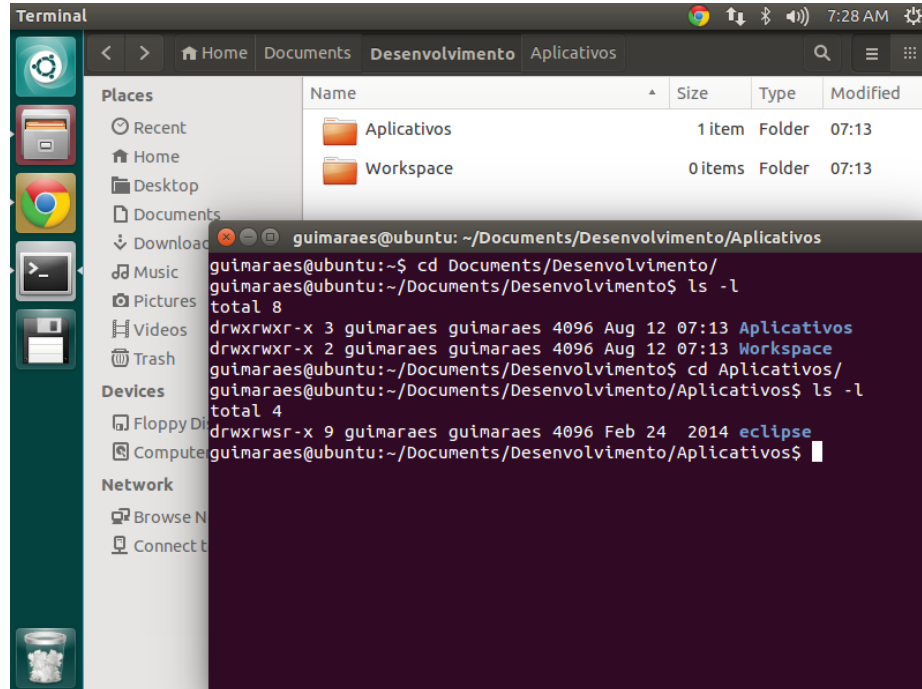


*Tela de finalização da IDE Eclipse*

Extraí do arquivo ***“eclipse-jee-kepler-SR2-linux-gtk.tar.gz”*** a pasta do Eclipse e vamos criar o ambiente de trabalho no nosso sistema operacional.

Crie na pasta Documents a seguinte estrutura:

Crie uma pasta chamada ***“Desenvolvimento”***, e dentro dela crie outras duas pastas, ***“Aplicativos”*** e ***“Workspace”***, copie e cole a pasta Eclipse na pasta Aplicativos que acabou de criar, com isso teremos um ambiente melhor organizado.



*Estrutura de pastas que devem ser criadas*

Entre na pasta do Eclipse Kepler (4.3) e execute o arquivo eclipse para abrir a IDE.

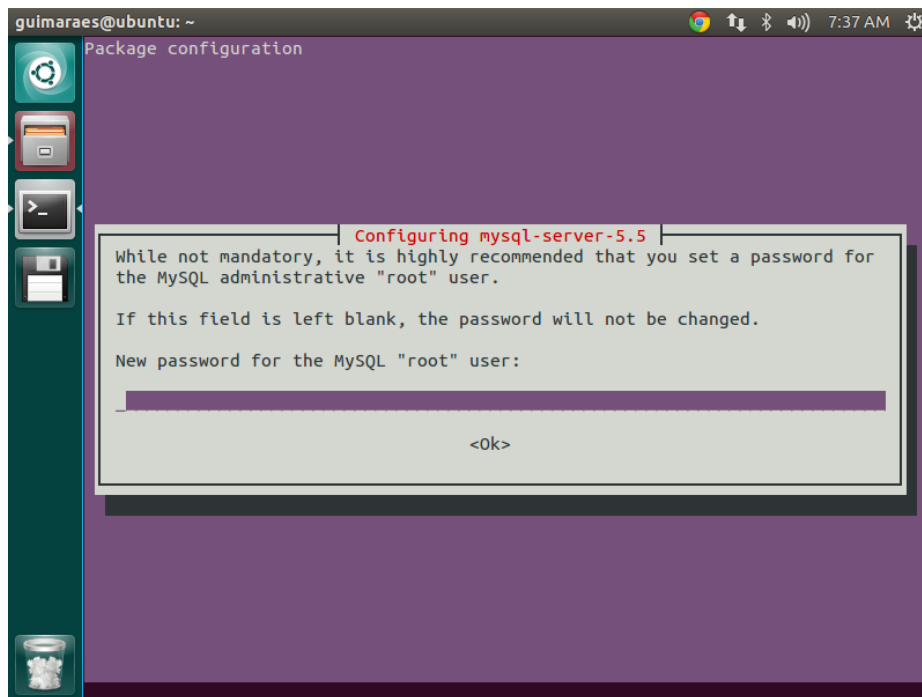


*Tela inicial do Eclipse*

Instalando o MySQL.

Abra o terminal, e execute os comandos abaixo:

```
sudo apt-get install mysql-server
```



*Informe uma senha para o MySQL, será solicitado para repetir essa senha.*

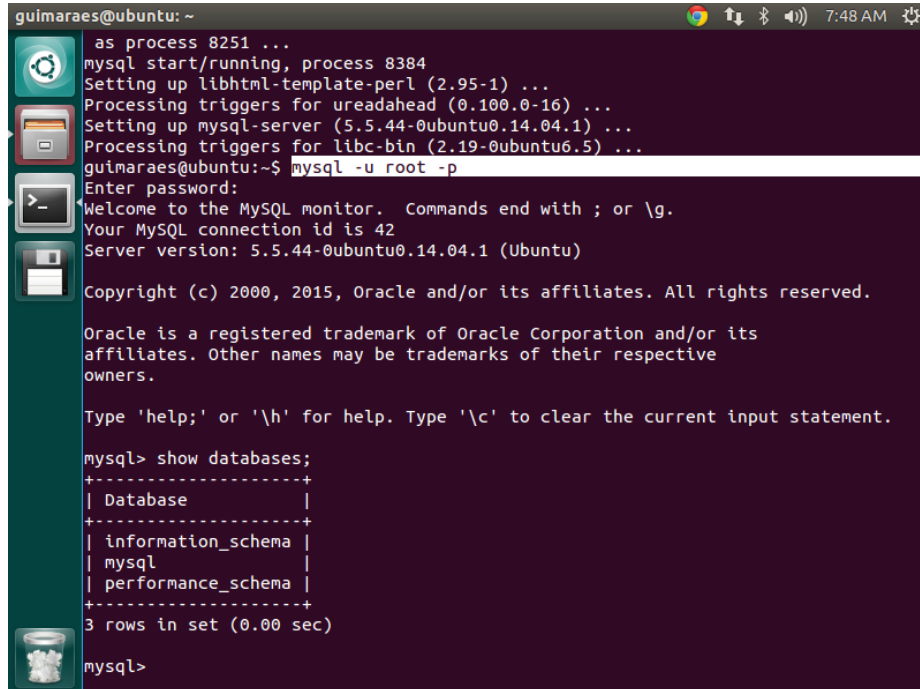
Após o termino da instalação faça o teste da instalação do MySQL seguindo os comandos abaixo:

```
mysql -u root -p
```

(Informe a senha)

(Entrando no command line do MySQL verifique os bancos de dados disponiveis)

```
show databases;
```



```
guimaraes@ubuntu: ~  
as process 8251 ...  
mysql start/running, process 8384  
Setting up libhtml-template-perl (2.95-1) ...  
Processing triggers for ureadahead (0.100.0-16) ...  
Setting up mysql-server (5.5.44-0ubuntu0.14.04.1) ...  
Processing triggers for libc-bin (2.19-0ubuntu6.5) ...  
guimaraes@ubuntu:~$ mysql -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 42  
Server version: 5.5.44-0ubuntu0.14.04.1 (Ubuntu)  
  
Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> show databases;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| performance_schema |  
+-----+  
3 rows in set (0.00 sec)  
  
mysql>
```

*Tela do MySQL exibindo os databases padrão.*