

How to install OpenJDK 11 on Ubuntu 16.04

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```
wrg@wrg-900X5N:~$ ls
CLionProjects      Downloads          movie_workspace   Public            Templates
Desktop            examples.desktop  Music             PycharmProjects  tmp
dm2_summary.txt    fpga_workspace    Pictures          qt                verilog
dm4_summary.txt    golang            programming       qt_workspace      Videos
Documents          hls_study_summary.txt  proj             sw                WebstormProjects

wrg@wrg-900X5N:~$ cd sw
wrg@wrg-900X5N:~/sw$ ls
CLion-2018.3.3.tar.gz  go                  jetbrains-toolbox-1.13.4733.tar.gz
extra_src              go1.11.2.linux-amd64.tar.gz  qt-unified-linux-x64-3.0.6-online.run
generate.vim           jetbrains-toolbox-1.13.4733  tmp
wrg@wrg-900X5N:~/sw$ curl -O https://download.java.net/java/GA/jdk11/9/GPL/openjdk-11.0.2_linux-x64_bin.tar.gz
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 178M 100 178M    0     0 2101k      0  0:01:27  0:01:27 --:--:-- 2103k
wrg@wrg-900X5N:~/sw$ ls
CLion-2018.3.3.tar.gz      jetbrains-toolbox-1.13.4733
extra_src                  jetbrains-toolbox-1.13.4733.tar.gz
generate.vim               openjdk-11.0.2_linux-x64_bin.tar.gz
go                          qt-unified-linux-x64-3.0.6-online.run
go1.11.2.linux-amd64.tar.gz  tmp
wrg@wrg-900X5N:~/sw$
```

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extra_src                 jetbrains-toolbox-1.13.4733.tar.gz
generate.vim              openjdk-11.0.2_linux-x64_bin.tar.gz
go                        qt-unified-linux-x64-3.0.6-online.run
go1.11.2.linux-amd64.tar.gz tmp
wrg@wrg-900X5N:~/sw$ tar zxvf openjdk-11.0.2_linux-x64_bin.tar.gz
```

```
jdk-11.0.2/lib/libjimage.so
jdk-11.0.2/lib/libjsig.so
jdk-11.0.2/lib/libjsound.so
jdk-11.0.2/lib/liblcms.so
jdk-11.0.2/lib/libmanagement.so
jdk-11.0.2/lib/libmanagement_agent.so
jdk-11.0.2/lib/libmanagement_ext.so
jdk-11.0.2/lib/libmlib_image.so
jdk-11.0.2/lib/libnet.so
jdk-11.0.2/lib/libnio.so
jdk-11.0.2/lib/libprefs.so
jdk-11.0.2/lib/librmi.so
jdk-11.0.2/lib/libsaproc.so
jdk-11.0.2/lib/libscdp.so
jdk-11.0.2/lib/libsplashscreen.so
jdk-11.0.2/lib/libsunec.so
jdk-11.0.2/lib/libunpack.so
jdk-11.0.2/lib/libverify.so
jdk-11.0.2/lib/libzip.so
jdk-11.0.2/lib/modules
jdk-11.0.2/lib/psfont.properties.ja
jdk-11.0.2/lib/psfontj2d.properties
jdk-11.0.2/lib/security/blacklisted.certs
jdk-11.0.2/lib/security/cacerts
jdk-11.0.2/lib/security/default.policy
jdk-11.0.2/lib/security/public_suffix_list.dat
jdk-11.0.2/lib/server/Xusage.txt
jdk-11.0.2/lib/server/libjsig.so
jdk-11.0.2/lib/server/libjvm.so
jdk-11.0.2/lib/src.zip
jdk-11.0.2/lib/tzdb.dat
jdk-11.0.2/release
```

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generate.vim              openjdk-11.0.2_linux-x64_bin.tar.gz
go                        qt-unified-linux-x64-3.0.6-online.run
go1.11.2.linux-amd64.tar.gz tmp
jdk-11.0.2
wrg@wrg-900X5N:~/sw$ sudo mv jdk-11.0.2 /usr/local/
wrg@wrg-900X5N:~/sw$ sudo vim /etc/profile.d/jdk.sh
```

```
# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

# Disable Touch Pad
xinput --disable 12

# Enable OpenJDK 11
export JAVA_HOME=/usr/local/jdk-11.0.2
export PATH=$PATH:$JAVA_HOME/bin/

# Enable Petalinux
source /media/wrg/evo_860/pkg/petalinux/settings.sh

# Enable ModelSim
export PATH=$PATH:/media/wrg/evo_860/intelFPGA_pro/18.1/modelsim_ase/bin

# Enable Vivado
export PATH=$PATH:/media/wrg/evo_860/Xilinx/Vivado/2018.2/bin
```

```
wrg@wrg-900X5N:~/sw$ java -version
openjdk version "11.0.2" 2019-01-15
OpenJDK Runtime Environment 18.9 (build 11.0.2+9)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.2+9, mixed mode)
wrg@wrg-900X5N:~/sw$ which java
/usr/local/jdk-11.0.2/bin/java
wrg@wrg-900X5N:~/sw$
```