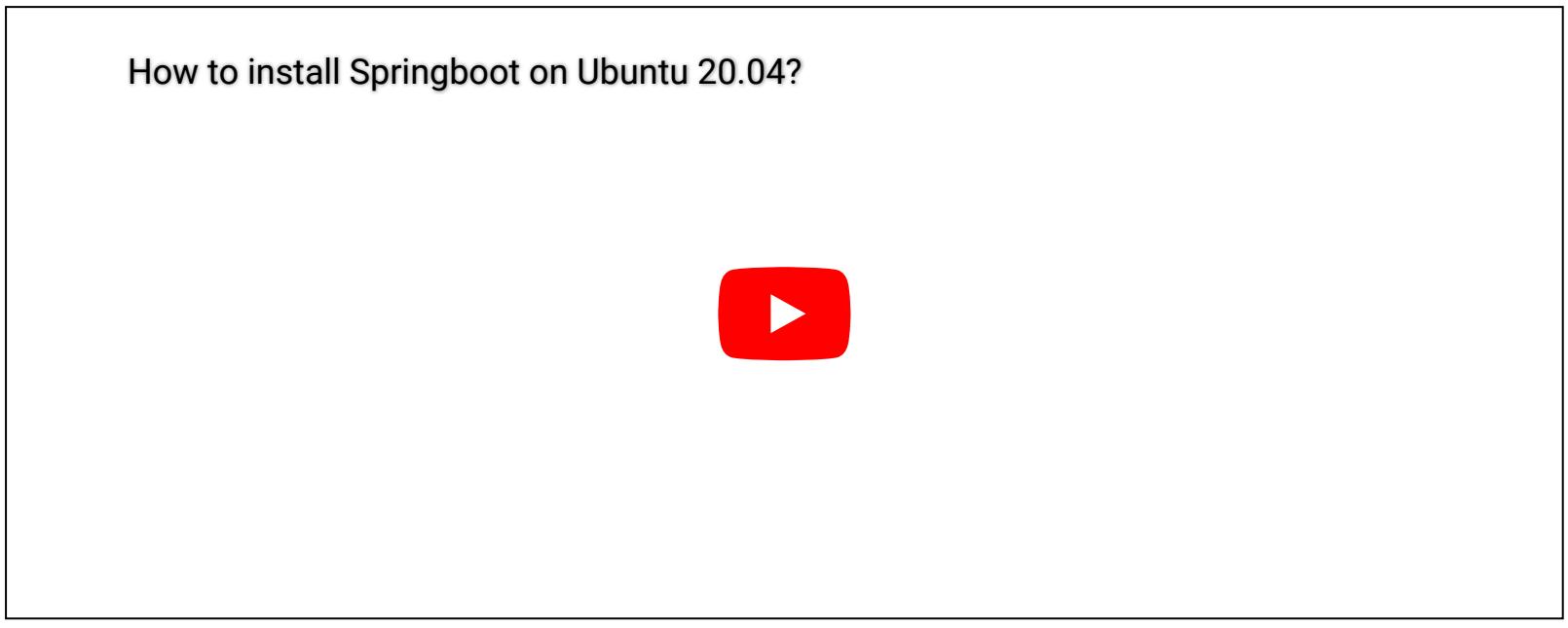
How to Install Spring boot on Ubuntu 20.04



Introduction

Spring Boot is a well-known Java-based framework for building web applications. It provides an easy and fast way to create production-grade and stand-alone Spring-based applications that can be run on your Ubuntu 20.04 system. In this guide, we will show you how to install Spring Boot on Ubuntu version 20.04.

Prerequisites

- Ubuntu 20.04-equipped system
- A sudo-privileged user account
- Internet connection
- Knowledge of CLI

This guide will show you how to install Spring boot on Ubuntu version 20.04.

Step 1: Spring Boot requires Java to be installed on your system. You can install it by running the following command in the terminal.

```
sudo apt install default-jdk
```

```
  at-spi2-core default-jdk-headless default-jre fonts-dejavu-extra libatk-bridge2.0-0 libatk-wrapper-java
  libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2
  libdrm-radeon1 libfontenc1 libgif7 libgl1 libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libice-dev libice6
  libllvm12 libpciaccess0 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm6 libvulkan1 libwayland-client0
  libx11-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0
  libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libxcomposite1 libxdmcp-dev libxfixes3 libxft2 libxi6
  libxinerama1 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6 libxv1
  libxxf86dga1 libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre x11-common x11-utils
  x11proto-core-dev x11proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  libice-doc lm-sensors libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-11-demo openjdk-11-source visualvm mesa-utils
The following NEW packages will be installed:
  at-spi2-core default-jdk default-jdk-headless default-jre fonts-dejavu-extra libatk-bridge2.0-0 libatk-wrapper-java
  libatk-wrapper-java-jni libatk1.0-0 libatk1.0-data libatspi2.0-0 libdrm-amdgpu1 libdrm-intel1 libdrm-nouveau2
  libdrm-radeon1 libfontenc1 libgif7 libgl1 libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libice-dev libice6
  libllvm12 libpciaccess0 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm6 libvulkan1 libwayland-client0
  libx11-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0
  libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libxcomposite1 libxdmcp-dev libxfixes3 libxft2 libxi6
  libxinerama1 libxkbfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6 libxv1
  libxxf86dga1 libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre x11-common x11-utils
  x11proto-core-dev x11proto-dev xorg-sgml-doctools xtrans-dev
0 upgraded, 76 newly installed, 0 to remove and 0 not upgraded.
Need to get 267 MB of archives.
After this operation, 779 MB of additional disk space will be used.
```

When prompted to continue, enter 'y'.

```
Do you want to continue? [Y/n] y
Get:1 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libatspi2.0-0 amd64 2.36.0-2 [64.2 kB]
Get:2 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 x11-common all 1:7.7+19ubuntu14 [22.3 kB]
Get:3 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxtst6 amd64 2:1.2.3-1 [12.8 kB]
Get:4 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 at-spi2-core amd64 2.36.0-2 [48.7 kB]
Get:5 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libglvnd0 amd64 1.3.2-1~ubuntu0.20.04.2 [48.1 kB]
Get:6 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libglapi-mesa amd64 21.2.6-0ubuntu0.1~20.04.2 [27.
4 kB]
Get:7 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libx11-xcb1 amd64 2:1.6.9-2ubuntu1.2 [9372 B]
Get:8 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxcb-dri2-0 amd64 1.14-2 [6920 B]
Get:9 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxcb-dri3-0 amd64 1.14-2 [6552 B]
Get:10 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxcb-glx0 amd64 1.14-2 [22.1 kB]
Get:11 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxcb-present0 amd64 1.14-2 [5560 B]
Get:12 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxcb-shm0 amd64 1.14-2 [5584 B]
Get:13 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxcb-sync1 amd64 1.14-2 [8884 B]
Get:14 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxcb-xfixes0 amd64 1.14-2 [9296 B]
Get:15 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxfixes3 amd64 1:5.0.3-2 [10.9 kB]
Get:16 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxshmfence1 amd64 1.3-1 [5028 B]
Get:17 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libxxf86vm1 amd64 1:1.1.4-1build1 [10.2 kB]
Get:18 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libdrm-amdgpu1 amd64 2.4.107-8ubuntu1~20.04.2 [18
.6 kB]
Get:19 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libpciaccess0 amd64 0.16-0ubuntu1 [17.9 kB]
Get:20 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libdrm-intel1 amd64 2.4.107-8ubuntu1~20.04.2 [60.
3 kB]
Get:21 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libdrm-nouveau2 amd64 2.4.107-8ubuntu1~20.04.2 [1
6.6 kB]
Get:22 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libdrm-radeon1 amd64 2.4.107-8ubuntu1~20.04.2 [19
.7 kB]
Get:23 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libllvm12 amd64 1:12.0.0-3ubuntu1~20.04.5 [18.8 M
B]
Get:24 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libsensors-config all 1:3.6.0-2ubuntu1.1 [6052 B]
Get:25 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates/main amd64 libsensors5 amd64 1:3.6.0-2ubuntu1.1 [27.2 kB]
Get:26 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 libvulkan1 amd64 1.2.131.2-1 [93.3 kB]
```

Step 2: Install zip and unzip packages.

```
sudo apt install unzip zip
```

```
The following packages were automatically installed and are no longer required:
  fonts-freefont-otf liballegro4.4 libalure1 libboost-regex1.71.0 libdevil1c2 libdumb1 libfluidsynth2 libglew2.1
  libglu1-mesa libinstpatch-1.0-2 libjsoncpp1 libminizip1 libmng2 libmodplug1 libopenal-data libopenal1 libsdl1.2debian
  libsdl2-2.0-0 libsndio7.0 libwxbase3.0-0v5 libwxgtk3.0-gtk3-0v5 spring-common springlobby timgm6mb-soundfont
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  zip
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 167 kB of archives.
After this operation, 638 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://nova.clouds.archive.ubuntu.com/ubuntu focal/main amd64 zip amd64 3.0-11build1 [167 kB]
Fetched 167 kB in 1s (257 kB/s)
Selecting previously unselected package zip.
(Reading database ... 123405 files and directories currently installed.)
Preparing to unpack .../zip_3.0-11build1_amd64.deb ...
Unpacking zip (3.0-11build1) ...
Setting up zip (3.0-11build1) ...
Processing triggers for man-db (2.9.1-1) ...
```

Step 3: Install SDKMAN!, a program that allows you to manage "candidates"—concurrent versions of several SDKs. It enables the installation of JVM-based SDKs for languages like Java, Kotlin, and Ceylon, etc. Additionally, it supports Maven, Gradle, Spring Boot, and several other tools.

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

```
ubuntu@test:~$ curl -s https://get.sdkman.io | bash

                            -+syyyyyyys:
                         `/yho:`       -yd.
                       `/yh/`           +m.
                     .oho.               hy                          .`
                   .sh/`                 :N`                `-/o`  `+dyyo:.
                 .yh:`                   `M-          `-/osysoym  :hs` `-+sys:      hhysssssssy+
               .sh:`                     `N:          ms/-``  yy.yh-      -hy.    `.N-````````+N.
             `od/`                       `N-       -/oM-      ddd+`      `sd:     hNNm        -N:
            :do`                         .M.       dMMM-      `ms.      /d+`      `NMMs       `do
          .yy-                           :N`     ```mMMM.      -       -hy.       /MMM:       yh
        `+d+`           `:/oo/`       `-/osyh/ossssssdNMM`             .sh:        yMMN`      /m.
       -dh-           :ymNMMMMy   `-/shmNm-`:N/-.``    `.sN           /N-         `NMMy      .m/
      `oNs`         -hysosmMMMMydmNmds+-.:ohm           :             sd`         :MMM/      yy
     .hN+          /d:    -MMMmhs/-.`    .MMMh   .ss+-                `yy`        sMMN`     :N.
    :mN/          `N/     `o/-`          :MMMo   +MMMN-          .`     `ds        mMMh      do
   /NN/           `N+....--:/+ooooosooo+:sMMM:   hMMMM:         `my      .m+     -MMM+     :N.
  /NMo             -+ooooo+/:-....` ... :+hNMN.  `NMMMd`        .MM/      -m:    oMMN.     hs
 -NMd`                                  :mm   -MMMm- .s/      -MMm.      /m-   mMMd     -N.
`mMM/                                    •-   /MMh. -dMo      -MMMy       od. .MMMs .. ---yh
+MMM.                                         sNo`.sNMM+      :MMMM/       sh`+MMMNmNm+++-
mMMM-                                        /--ohmMMM+      :MMMMm.       `hyymmmdddo
MMMMh.                    ````                `-+yy/`yMMM/     :MMMMMy       -sm:.`` .. -:-.`
dMMMMmo-.``````  ..-:/osyhdddddho.             `+shdh+.   hMMM:     :MmMMMM/    ./yy/` `:sys+/+sh/
.dMMMMMMmddddddmmNMMMNNNNNNMMMMMs              sNdo-      dMMM-   `-/yd/MMMMm-:sy+.    :hs-      /N`
 `/ymNNNNNNNmmdys+/::----/dMMm:                +m-         mMMM+ohmo/.` sMMMMdo-     .om:       `sh
    `.-----+/.`         `•–+hh/`              `od.         NMMNmds/      `mmy:`      +mMy       `:yy.
        /moyso+//+ossso:.                    .yy`         `dy+:`         ..        :MMMN+---/oys:
      /+m:   `•– ::: -`                     /d+                                   +MMMMMMMNh:`
     +MN/                                 -yh.                                    `+hddhy+.
    /MM+                                .sh:
   :NMo                               -sh/
```

Step 4: Follow the instruction printed on the console and enter into the terminal.

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

```
* Checking archive integrity...
* Extracting archive...
* Copying archive contents...
* Cleaning up...

Set version to 5.18.1 ...
Set native version to 0.2.2 ...
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!


You are subscribed to the STABLE channel.

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!!!
```

Note: *You can simply copy and enter the command given on the terminal or type the command mentioned above, where you can enter your own username in place of Ubuntu.*

Step 5: Verify SDKMAN! installation.

```
sdk help
```

```
ubuntu@test:~$ sdk help

NAME
    sdk - The command line interface (CLI) for SDKMAN!

SYNOPSIS
    sdk <subcommand> [candidate] [version]

DESCRIPTION
    SDKMAN! is a tool for managing parallel versions of multiple JVM related
    Software Development Kits on most Unix based systems. It provides a
    convenient Command Line Interface (CLI) and API for installing, switching,
    removing and listing Candidates.

SUBCOMMANDS & QUALIFIERS
    help         [subcommand]
    install      <candidate> [version] [path]
    uninstall    <candidate> <version>
    list         [candidate]
    use          <candidate> <version>
    config       no qualifier
    default      <candidate> [version]
    home         <candidate> <version>
    env          [init|install|clear]
    current      [candidate]
    upgrade      [candidate]
    version      no qualifier
    offline      [enable|disable]
    selfupdate   [force]
    update       no qualifier
    flush        [tmp|metadata|version]
```

Step 6: Install Spring CLI.

```
sdk install springboot
```

```
######################################################################################################################## 100.0%

Installing: springboot 3.0.6
Done installing!


Setting springboot 3.0.6 as default.
```

Conclusion

Spring Boot is a powerful Java-based framework that can help you develop web applications quickly and easily. With the steps outlined in this guide, you can install Spring Boot on your Ubuntu 20.04 system and start building your web applications right away. Remember to keep your Spring Boot installation up to date to take advantage of the latest features and bug fixes.

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