

Installing Jenkins on Windows

Hardware Requirements

Memory	2 GB RAM (Recommended)
Disk Space	We need at least 1 GB of space in our hard drive for Jenkins

Software Requirements

JDK	We need either Java Development (JDK) or Java Runtime Environment (JRE)
Operating System	Jenkins can be installed on Windows, Mac OS X, Ubuntu/Debian, Red Hat/Fedora/CentOS, openSUSE, FreeBSD, OpenBSD, Gentoo.
Java Container	The WAR (Web Application Resource) file can be run in any container that supports Servlet 2.4/JSP 2.0 or later. (For example Tomcat 5).

Release Types

Jenkins supports two types of releases based on the organization needs:

- Long-term support release
- Weekly release

Long term support release (LTS): Long-term support releases (LTS) are available every 12 weeks. They are stable and are widely used and tested. Basically, this release is intended for end users.

Weekly release: This release is available in every week by fixing bugs in its earlier version. These releases are intended towards plugin developers.

We will use the long term support release (LTS) though the process remains the same for Weekly release.

Install Java Version 8

Since Jenkins is a Java based application, therefore Java is a must.

To download the Java **Click here**. Select file according to your platform.

https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

See also:

- Java Developer Newsletter: From your Oracle account, select **Subscriptions**, expand **Technology**, and subscribe to **Java**.
- Java Developer Day hands-on workshops (free) and other events
- Java Magazine

JDK 8u211 [checksum](#)
JDK 8u212 [checksum](#)

Java SE Development Kit 8u211

You must accept the [Oracle Technology Network License Agreement for Oracle Java SE](#) to download this software.
Thank you for accepting the Oracle Technology Network License Agreement for Oracle Java SE; you may now download this software.

Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	72.86 MB	jdk-8u211-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	69.76 MB	jdk-8u211-linux-arm64-vfp-hflt.tar.gz
Linux x86	174.11 MB	jdk-8u211-linux-i586.rpm
Linux x86	188.92 MB	jdk-8u211-linux-i586.tar.gz
Linux x64	171.13 MB	jdk-8u211-linux-x64.rpm
Linux x64	185.96 MB	jdk-8u211-linux-x64.tar.gz
Mac OS X x64	252.23 MB	jdk-8u211-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	132.98 MB	jdk-8u211-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	94.18 MB	jdk-8u211-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	133.57 MB	jdk-8u211-solaris-x64.tar.Z
Solaris x64	91.93 MB	jdk-8u211-solaris-x64.tar.gz
Windows x86	202.62 MB	jdk-8u211-windows-i586.exe
Windows x64	215.29 MB	jdk-8u211-windows-x64.exe

Then install the Java as follows:



This wizard will guide you through the installation process for the JDK 8 Update 211

The terms under which this version of the software is licensed have changed.

[Updated License Agreement](#)

The Java Mission Control profiling and diagnostic tools suite is now available as part of the JDK

No personal information is gathered as part of our install process.

[Details on the information we collect](#)

Next

Cancel



Select optional features to install from the list below. You can change your choice of features after installation by using the Add/Remove Programs utility in the Control Panel

<input checked="" type="checkbox"/>	Development Tools
<input type="checkbox"/>	Source Code
<input type="checkbox"/>	Public JRE

Feature Description

Java SE Development Kit 8 Update 211 (64-bit), including the JavaFX SDK, a private JRE, and the Java Mission Control tools suite. This will require 180MB on your hard drive.

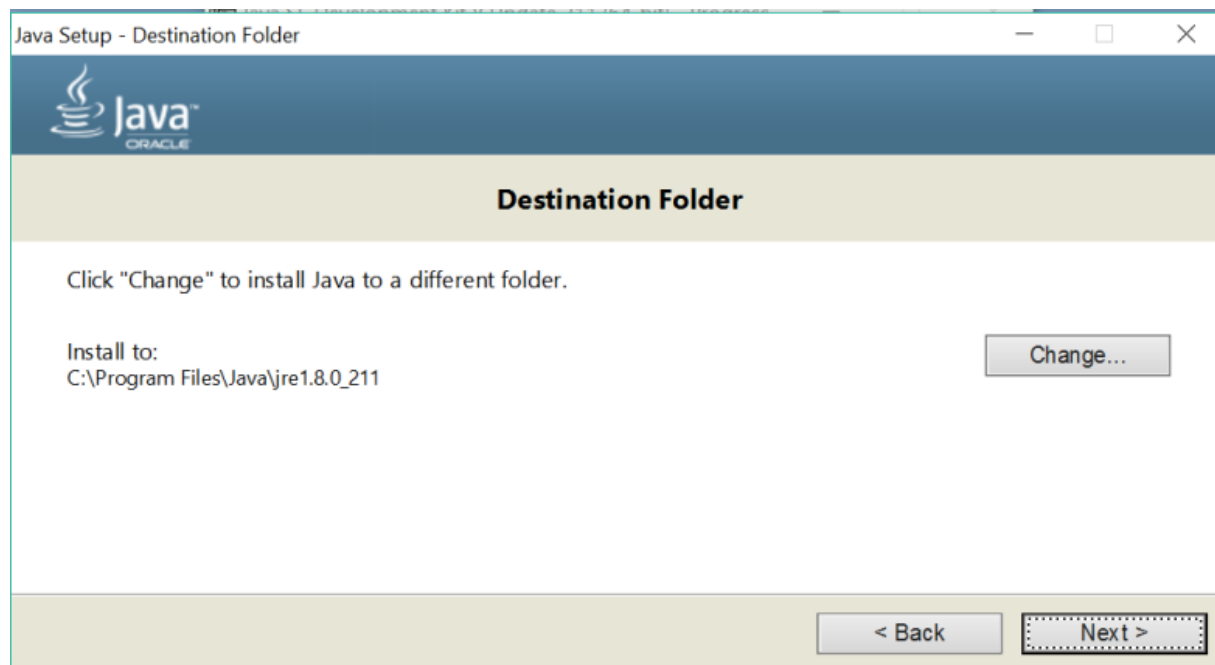
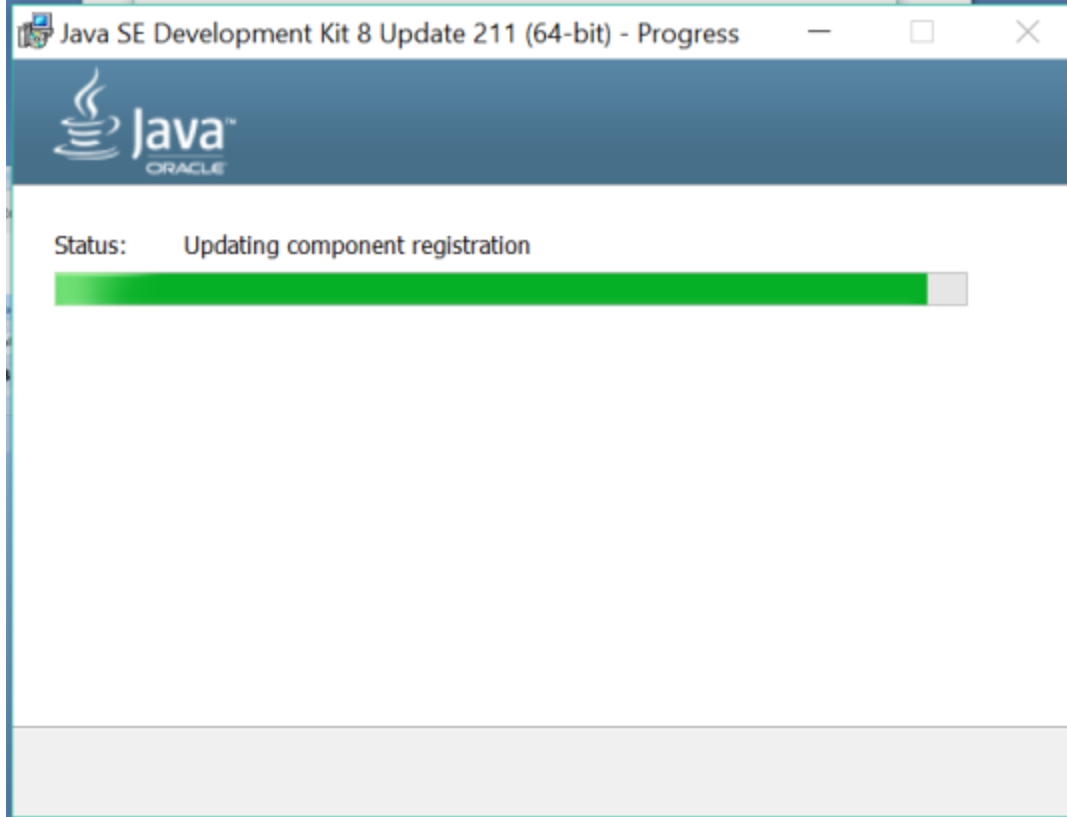
Install to:

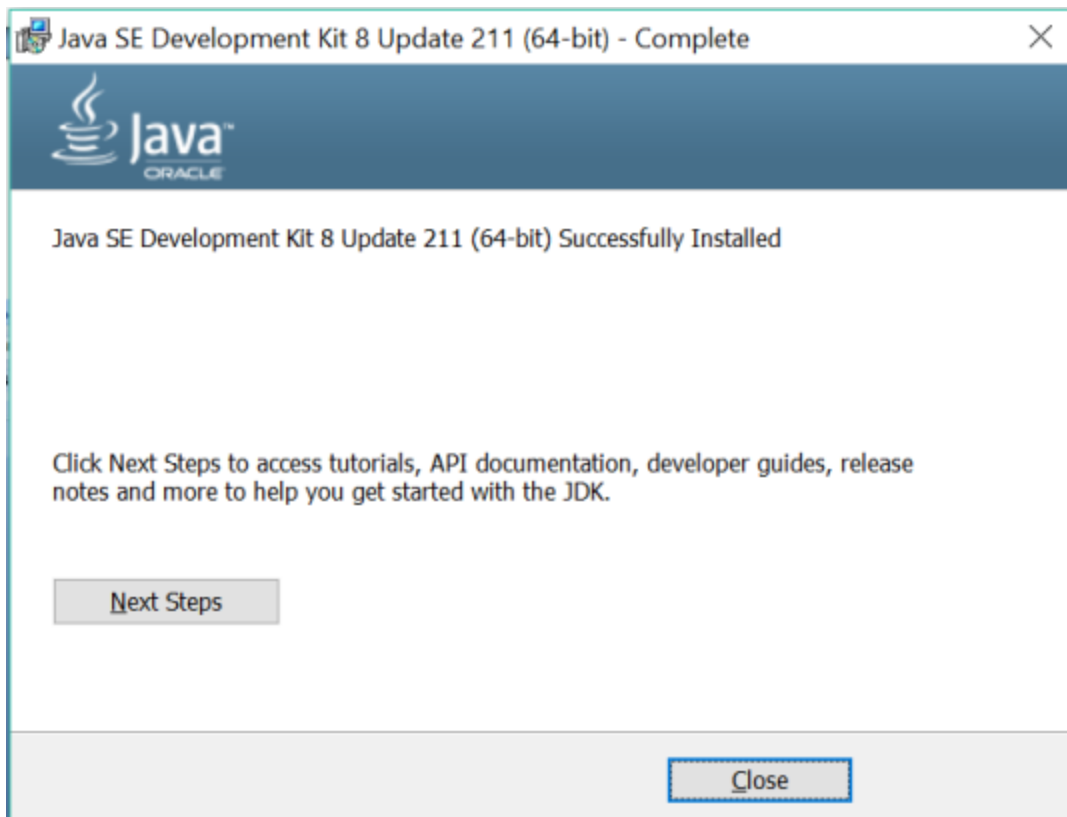
C:\Program Files\Java\jdk1.8.0_211\

Change...

Next >

Cancel



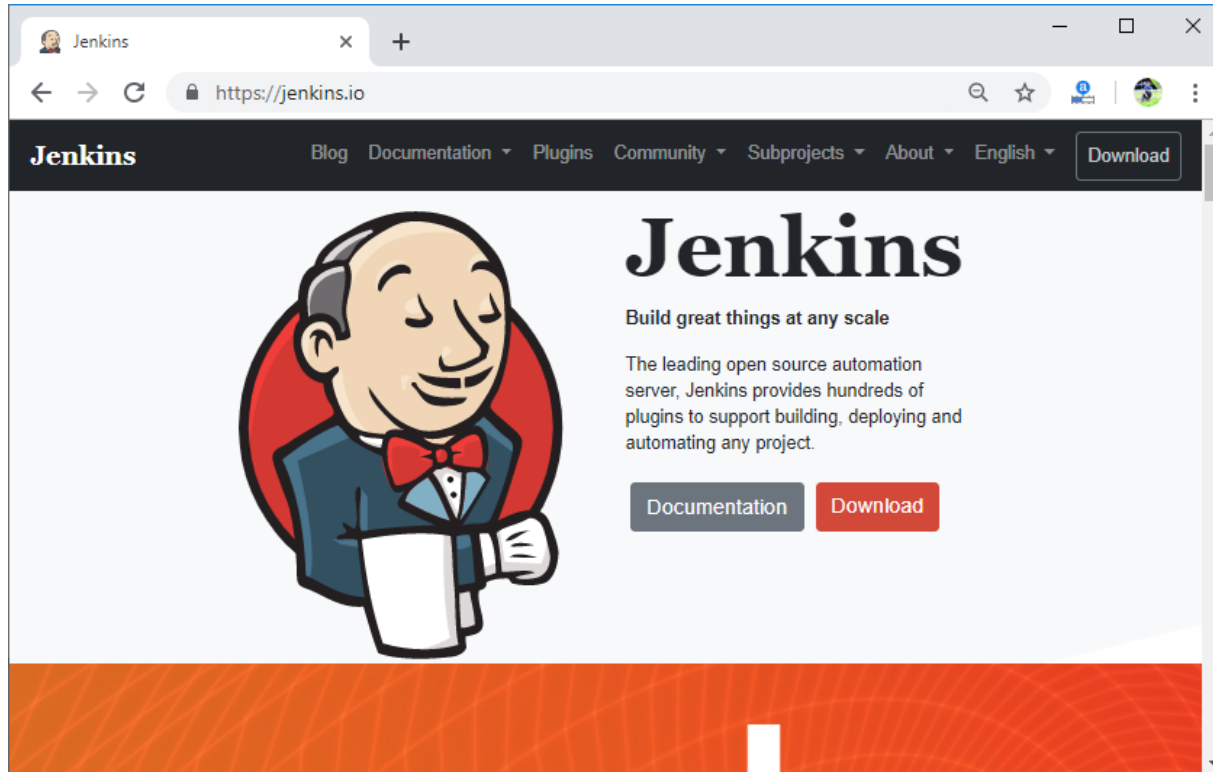


Download Jenkins war File

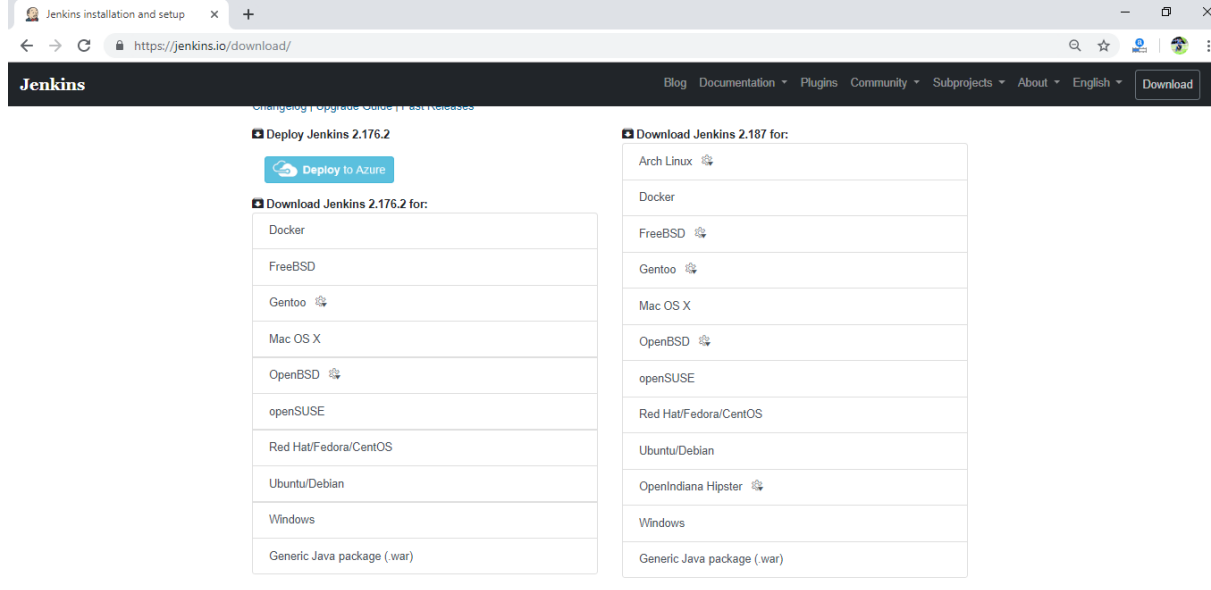
This war is required to install Jenkins.

The official website for Jenkins is <https://jenkins.io/>

When you click the given link, you will get the home page of the Jenkins official website as given below:



Click on the Download button.



Click on Generic Java Package (.war) to download the Jenkins war file.

Starting Jenkins

Open the command prompt and go to the directory where the Jenkins.war file is located. And then run the following command:

```
C:/Java -jar Jenkins.war
```

When you run this command, various tasks will run, one of which is the extraction of the war file which is done by an embedded webserver called winstone.

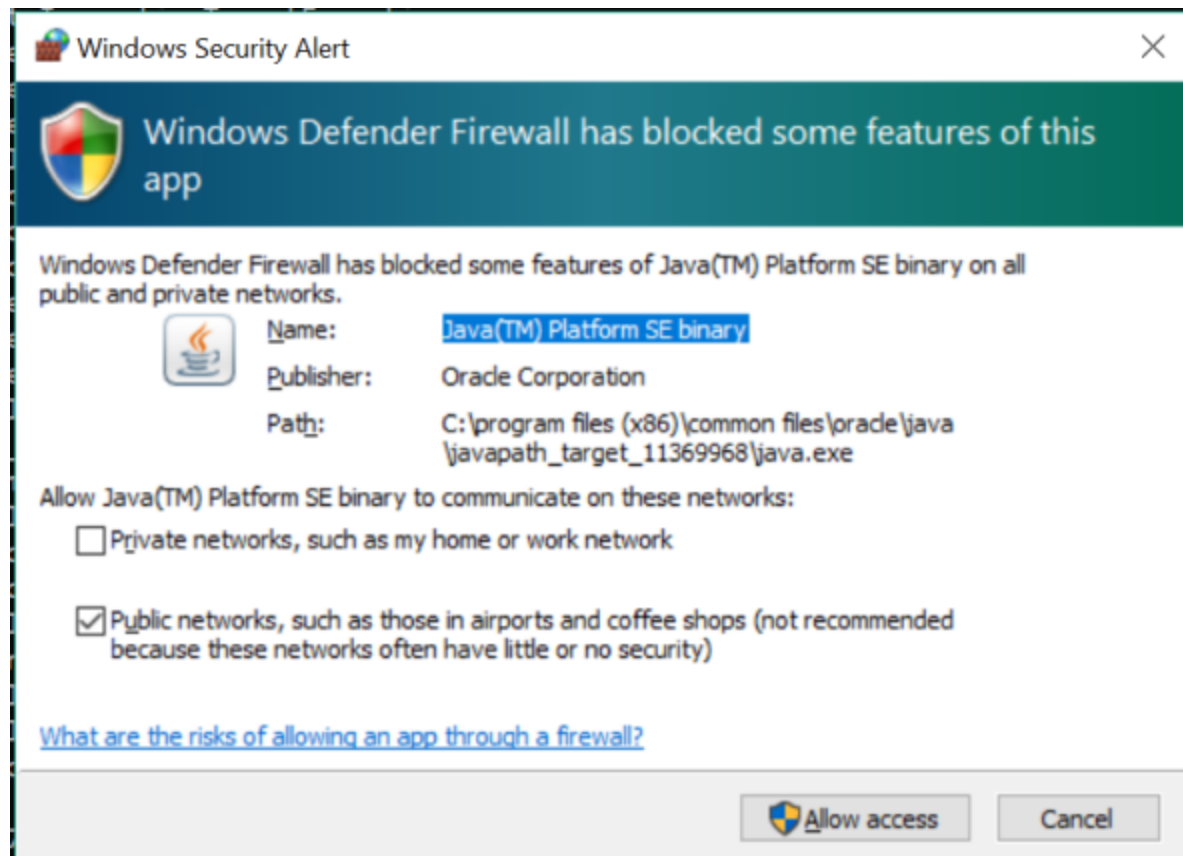
```

Microsoft Windows [Version 10.0.17134.765]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Nikita>cd c:\jenkins tutorial

c:\Jenkins Tutorial>Java -jar Jenkins.war
Running from: C:\Jenkins Tutorial\jenkins.war
webroot: $user.home/.jenkins
[Winstone 2019/07/06 18:11:26] - Beginning extraction from war file
udson home directory: C:\Users\Nikita\.jenkins found at: $user.home/.jenkins
[Winstone 2019/07/06 18:11:26] - HTTP Listener started: port=8080
[Winstone 2019/07/06 18:11:26] - AJP13 Listener started: port=8009
Using one-time self-signed certificate
[Winstone 2019/07/06 18:11:26] - Error starting listener instance
java.lang.reflect.InvocationTargetException
    at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
    at sun.reflect.NativeConstructorAccessorImpl.newInstance(Unknown Source)
    at sun.reflect.DelegatingConstructorAccessorImpl.newInstance(Unknown Source)
    at java.lang.reflect.Constructor.newInstance(Unknown Source)
    at winstone.Launcher.spawnListener(Launcher.java:232)
    at winstone.Launcher.<init>(Launcher.java:205)
    at winstone.Launcher.main(Launcher.java:391)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
    at java.lang.reflect.Method.invoke(Unknown Source)
    at Main._main(Main.java:214)
    at Main.main(Main.java:61)
Caused by: java.lang.NoClassDefFoundError: sun/security/x509/CertAndKeyGen
    at winstone.ssl.HttpsListener.<init>(HttpsListener.java:111)
    ... 13 more
Caused by: java.lang.ClassNotFoundException: sun.security.x509.CertAndKeyGen

```



Click on **Allow access** button to allow the access.

```
... 14 more
[Winstone 2019/07/06 18:11:26] - Winstone Servlet Engine v0.9.10 running: controlPort=disabled
Jul 06, 2019 6:11:27 PM hudson.model.Hudson$5 onAttained
INFO: Started initialization
Jul 06, 2019 6:11:27 PM hudson.model.Hudson$5 onAttained
INFO: Listed all plugins
Jul 06, 2019 6:11:27 PM hudson.model.Hudson$5 onAttained
INFO: Prepared all plugins
Jul 06, 2019 6:11:27 PM hudson.model.Hudson$5 onAttained
INFO: Started all plugins
Jul 06, 2019 6:11:27 PM hudson.model.Hudson$5 onAttained
INFO: Augmented all extensions
Jul 06, 2019 6:11:27 PM hudson.model.Hudson$5 onAttained
INFO: Loaded all jobs
Jul 06, 2019 6:11:28 PM hudson.model.Hudson$5 onAttained
INFO: Completed initialization
Jul 06, 2019 6:11:28 PM hudson.TcpSlaveAgentListener <init>
INFO: JNLP slave agent listener started on TCP port 55609
Jul 06, 2019 6:12:31 PM hudson.model.DownloadService$Downloadable doPostBack
INFO: Obtained the updated data file for hudson.tasks.Ant.AntInstaller
Jul 06, 2019 6:12:31 PM hudson.model.DownloadService$Downloadable doPostBack
INFO: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
Jul 06, 2019 6:12:40 PM hudson.model.DownloadService$Downloadable doPostBack
INFO: Obtained the updated data file for hudson.tools.JDKInstaller
Jul 06, 2019 6:12:55 PM hudson.model.UpdateSite doPostBack
INFO: Obtained the latest update center data file for UpdateSource default
```

Accessing Jenkins

Now you can access the Jenkins. Open your browser and type the following url on your browser:

```
http://localhost:8080
```

This url will bring up the Jenkins dashboard.

Jenkins ENABLE AUTO REFRESH

-  [New Job](#)
-  [Manage Jenkins](#)
-  [People](#)
-  [Build History](#)

Welcome to Jenkins! Please [create new jobs](#) to get started.

 [add description](#)

Build Queue

No builds in the queue.

Build Executor Status		
#	Status	
1	Idle	
2	Idle	