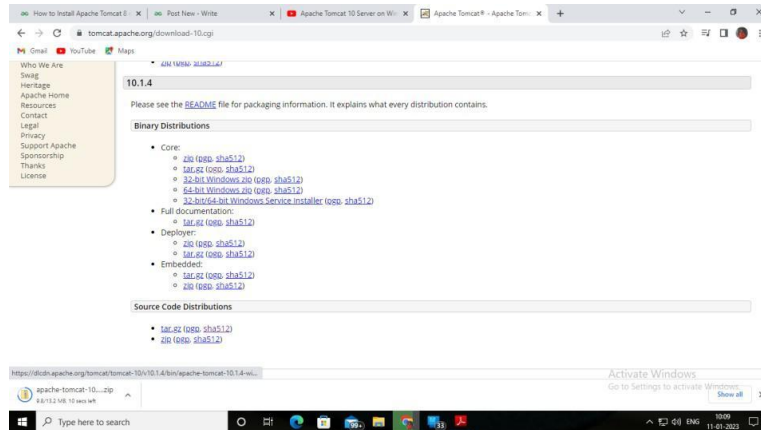


## STEPS TO INSTALL APACHE TOMCAT IN WINDOWS :

**Step 1:** We need to first install the Tomcat 10 zip file from [this](https://tomcat.apache.org/download-10.cgi) website. On the website, select the 64-bit Windows zip (PGP, sha512) in the Core section to start the download process for the Tomcat zip file.



**Step 2: Check If JDK Is Installed.** Open Command Prompt and enter the following commands

```
java -version
```

```
javac -version
```

```
Command Prompt
Microsoft Windows [Version 10.0.22000.675]
(c) Microsoft Corporation. All rights reserved.

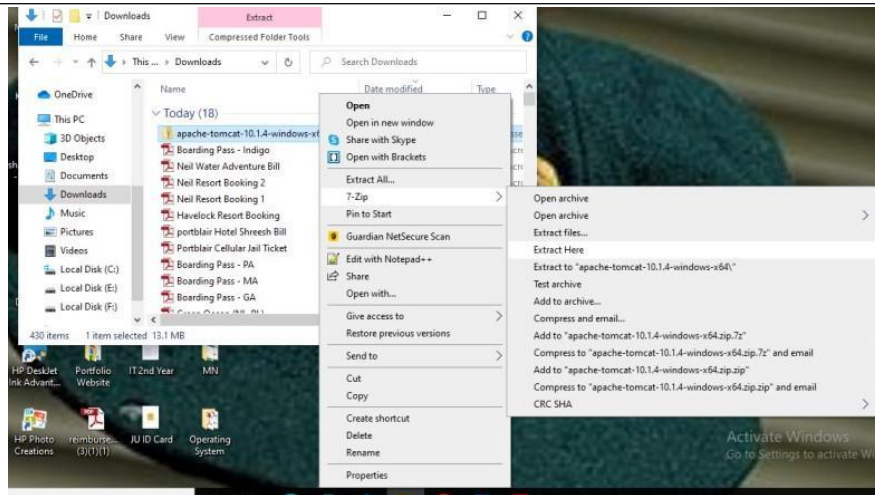
C:\Users\sarth>java -version
java version "18.0.1.1" 2022-04-22
Java(TM) SE Runtime Environment (build 18.0.1.1+2-6)
Java HotSpot(TM) 64-Bit Server VM (build 18.0.1.1+2-6, mixed mode, sharing)

C:\Users\sarth>javac -version
javac 18.0.1.1

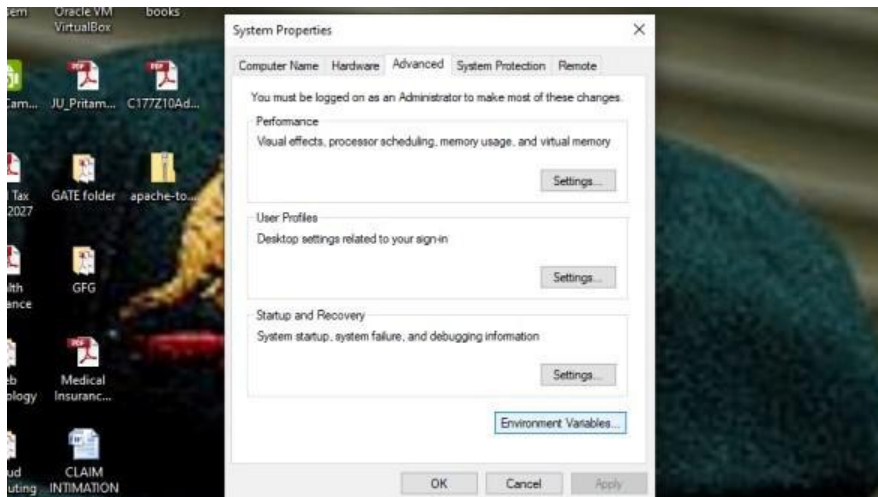
C:\Users\sarth>
```

If JDK is not installed on your computer, [install JDK](#). In the above picture, we can see JDK is already installed on our computer.

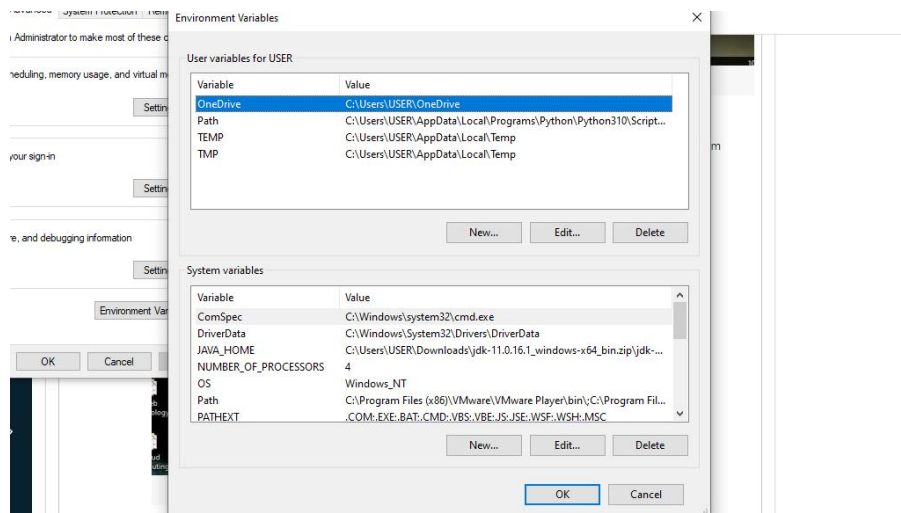
**Step 3: Unzip Tomcat 10 Zip File.** Go to the location where you have downloaded the Tomcat 10 zip file. Right-click on the apache tomcat file place the cursor on 7-Zip and click on Extract Here to extract the folder.



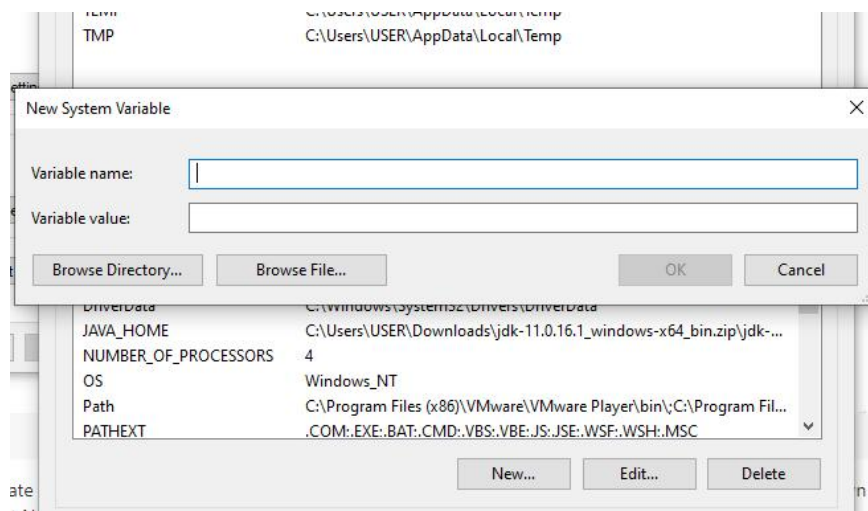
**Step 4: Creating JAVA\_HOME Variable.** Click Start then in the search bar, search for “Edit the system environment variables” and click on it. The following System Properties box will open. Select Environment Variables in the box.



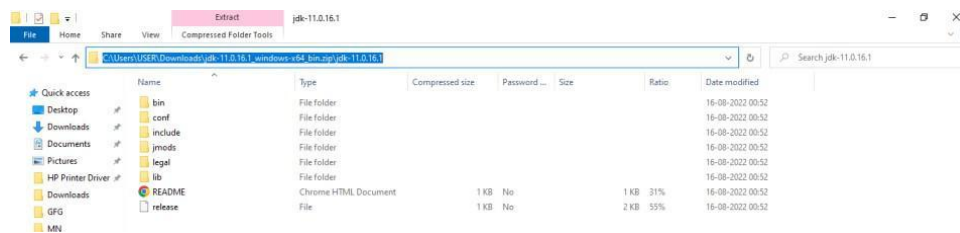
On clicking Environment Variables the following box will open.



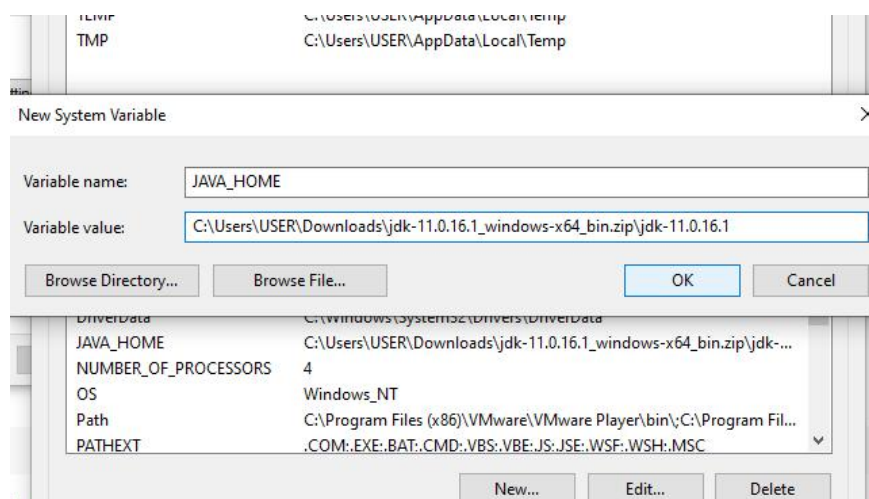
**Step 5:** We have to create a JAVA\_HOME variable and insert the path of the JDK file stored in our computer, which will be shown below. So select New from the System variables in the above picture. A New System Variable box will be opened where we will have to fill in the Variable name and Variable value.



**Step 6:** Go to the location where you have stored the contents of the JDK file in My Computer or PC. Copy the root path of the location of the JDK file as shown below.



**Step 7:** Paste the JDK path from the above picture into the Variable value field and in the Variable name field, give the name JAVA\_HOME as shown below.



**Step 8: Check the Working of Tomcat.** Open the extracted apache tomcat file. We will see all the following files in them. Among them open the batch file named “startup”.

catalina-tasks	XML Document	1 KB	No	2 KB	53%	05-12-2022 16:30
ciphers	Windows Batch File	1 KB	No	3 KB	37%	05-12-2022 16:30
ciphers	SH Source File	1 KB	No	2 KB	49%	05-12-2022 16:30
commons-daemon	JAR File	23 KB	No	26 KB	13%	05-12-2022 16:30
configtest	Windows Batch File	1 KB	No	2 KB	58%	05-12-2022 16:30
configtest	SH Source File	1 KB	No	2 KB	50%	05-12-2022 16:30
daemon	Windows Batch File	1 KB	No	9 KB	69%	05-12-2022 16:30
digest	Windows Batch File	1 KB	No	3 KB	37%	05-12-2022 16:30
digest	SH Source File	1 KB	No	2 KB	49%	05-12-2022 16:30
makebase	Windows Batch File	2 KB	No	4 KB	61%	05-12-2022 16:30
makebase	SH Source File	2 KB	No	4 KB	57%	05-12-2022 16:30
migrate	Windows Batch File	1 KB	No	3 KB	37%	05-12-2022 16:30
migrate	SH Source File	1 KB	No	2 KB	48%	05-12-2022 16:30
service	Windows Batch File	3 KB	No	9 KB	71%	05-12-2022 16:30
setclasspath	Windows Batch File	2 KB	No	3 KB	63%	05-12-2022 16:30
setclasspath	SH Source File	2 KB	No	4 KB	64%	05-12-2022 16:30
shutdown	Windows Batch File	1 KB	No	2 KB	58%	05-12-2022 16:30
shutdown	SH Source File	1 KB	No	2 KB	50%	05-12-2022 16:30
startup	Windows Batch File	1 KB	No	2 KB	58%	05-12-2022 16:30
startup	SH Source File	1 KB	No	2 KB	50%	05-12-2022 16:30
tomcatv1.1.dll	Application extension	1,511 KB	No	3,343 KB	55%	05-12-2022 16:30
tomcat10	Application	60 KB	No	143 KB	55%	05-12-2022 16:30
tomcat10w	Application	51 KB	No	127 KB	60%	05-12-2022 16:30
tomcat-juli	JAR File	44 KB	No	48 KB	8%	05-12-2022 16:30
tool-wrapper	Windows Batch File	2 KB	No	4 KB	62%	05-12-2022 16:30
tool-wrapper	SH Source File	2 KB	No	3 KB	59%	05-12-2022 16:30
version	Windows Batch File	1 KB	No	2 KB	58%	05-12-2022 16:30
version	SH Source File	1 KB	No	2 KB	50%	05-12-2022 16:30

**Step 9:** Check if the Startup Windows Batch File is running properly.

```

Tomcat
14-Apr-2021 23:39:52.155 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command Line argument: -Djava.protocol.handler.pkgs=org.apache.catalina.webresources
14-Apr-2021 23:39:52.155 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command Line argument: -Dignore.endorsed.dirs=
14-Apr-2021 23:39:52.156 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command Line argument: -Dcatalina.base=D:\apache-tomcat-8.5.65
14-Apr-2021 23:39:52.156 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command Line argument: -Dcatalina.home=D:\apache-tomcat-8.5.65
14-Apr-2021 23:39:52.157 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command Line argument: -Djava.io.tmpdir=D:\apache-tomcat-8.5.65\temp
14-Apr-2021 23:39:52.157 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent Loaded Apache Tomcat Native library [1.2.27] using APR version [1.7.0].
14-Apr-2021 23:39:52.158 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent APR capabilities: IPv6 [true], sendfile [true], accept filters [false], random [true].
14-Apr-2021 23:39:52.159 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent APR/OpenSSL configuration: useAprConnector [false], useOpenSSL [true]
14-Apr-2021 23:39:52.247 INFO [main] org.apache.catalina.core.AprLifecycleListener.initializeSSL OpenSSL successfully initialized [OpenSSL 1.1.1k 25 Mar 2021]
14-Apr-2021 23:39:52.327 INFO [main] org.apache.coyote.AbstractProtocol.init Initializing ProtocolHandler ["http-nio-8080"]
14-Apr-2021 23:39:52.535 INFO [main] org.apache.tomcat.util.net.NioSelectorPool.getSharedSelector Using a shared selector for servlet write/read
14-Apr-2021 23:39:52.557 INFO [main] org.apache.catalina.startup.Catalina.load Initialization processed in 1367 ms
14-Apr-2021 23:39:52.655 INFO [main] org.apache.catalina.core.StandardService.startInternal Starting service [catalina]
14-Apr-2021 23:39:52.656 INFO [main] org.apache.catalina.core.StandardEngine.startInternal Starting Servlet engine: [Apache Tomcat/8.5.65]
14-Apr-2021 23:39:52.744 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployWAR Deploying web application archive [D:\apache-tomcat-8.5.65\webapps\SpringbootWarDeploy.war]

```


By default, the server port number is 8080.

**Step 10: Successful Installation of Tomcat.** Our next step is to open an internet browser like Google and type in the address


*http://localhost:8080*

Then click enter and the following browser will appear suggesting the successful installation of Apache Tomcat.

[Home](#)
[Documentation](#)
[Configuration](#)
[Examples](#)
[Wiki](#)
[Mailing Lists](#)
[Find Help](#)

**Apache Tomcat/10.1.4**


If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

- [Security Considerations HOW-TO](#)
- [Manager Application HOW-TO](#)
- [Clustering/Session Replication HOW-TO](#)

Server Status  
Manager App  
Host Manager

**Developer Quick Start**

- [Tomcat Setup](#)
- [First Web Application](#)
- [Realms & AAA](#)
- [JDBC Data Sources](#)
- [Examples](#)
- [Servlet Specifications](#)
- [Tomcat Versions](#)

**Managing Tomcat**

For security, access to the manager webapp is restricted. Users are defined in:

SCATALINA\_HOME/conf/tomcat-users.xml

**Documentation**

- [Tomcat 8.5 Documentation](#)
- [Tomcat 8.5 Configuration](#)

**Getting Help**

[FAQ and Mailing Lists](#)

The following mailing lists are available: