

Installing Joget as a Windows Service

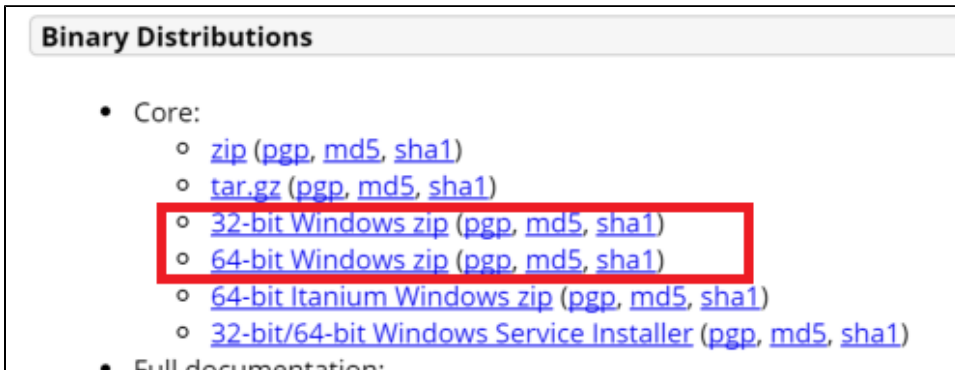
1. Download the desired Tomcat version from its official site. You can click [here](#) to get Tomcat 8.



32 or 64 bits?

Make sure that you match Tomcat with the version of Java that you are using.

2. Make sure that you pick the bundle meant for Windows as highlighted below.



3. Extract the content and put it into the Joget's installation directory.

In this article, our Joget installation directory is `C:\Joget-DX7-Enterprise\`

At the time of writing, "apache-tomcat-8.5.54" is the version downloaded.

Name	Date modified	Type	Size
apache-ant-1.7.1	4/23/2020 2:05 PM	File folder	
apache-tomcat-8.5.41	4/23/2020 2:05 PM	File folder	
apache-tomcat-8.5.54	4/3/2020 3:09 PM	File folder	
data	4/23/2020 2:05 PM	File folder	
jre11.0.2	4/23/2020 2:05 PM	File folder	
mariadb-10.3.9-win32	4/23/2020 2:05 PM	File folder	
wflow	4/23/2020 3:37 PM	File folder	
apache-tomcat-8.5.54-windows-x64.zip	4/24/2020 12:43 PM	ZIP File	11,287 KB
build.xml	4/22/2020 10:15 AM	XML Document	4 KB
CHANGES.txt	4/22/2020 10:15 AM	Text Document	124 KB
joget.ico	4/22/2020 10:15 AM	Icon	10 KB
joget_start.ico	4/22/2020 10:15 AM	Icon	5 KB
joget_stop.ico	4/22/2020 10:15 AM	Icon	5 KB
joget-start.bat	4/24/2020 12:45 PM	Windows Batch File	1 KB
joget-stop.bat	4/22/2020 10:15 AM	Windows Batch File	1 KB
LICENSE.txt	4/22/2020 10:15 AM	Text Document	10 KB
mariadb-start.bat	4/22/2020 10:15 AM	Windows Batch File	1 KB
mariadb-stop.bat	4/22/2020 10:15 AM	Windows Batch File	1 KB
NOTICE.txt	4/22/2020 10:15 AM	Text Document	48 KB
Start Joget Server	4/23/2020 2:05 PM	Shortcut	2 KB
Stop Joget Server	4/23/2020 2:05 PM	Shortcut	2 KB
tomcat8-run.bat	4/22/2020 10:15 AM	Windows Batch File	1 KB
tomcat8-stop.bat	4/22/2020 10:15 AM	Windows Batch File	1 KB
Uninstall.exe	4/23/2020 2:05 PM	Application	169 KB
VERSION.txt	4/22/2020 10:15 AM	Text Document	1 KB

4. Copy the `hw.war` from `existing tomcat's webapps` folder into the new one (i.e. from `\apache-tomcat-8.5.41\webapps\` to `\apache-tomcat-8.5.54\webapps\`)
5. **Optional step:** If you ever plan to start up Joget manually next time by running the usual batch file or through Windows Start Menu, you can modify `Joget.start` to point to the new tomcat folder.

Existing code

```
set CATALINA_HOME=.\apache-tomcat-8.5.41
```

New code

```
set CATALINA_HOME=.\apache-tomcat-8.5.54
```

6. Open up `\apache-tomcat-8.5.54\bin` in your command prompt.

7. Run `service.bat install service_name Tomcat8JogetDX`.

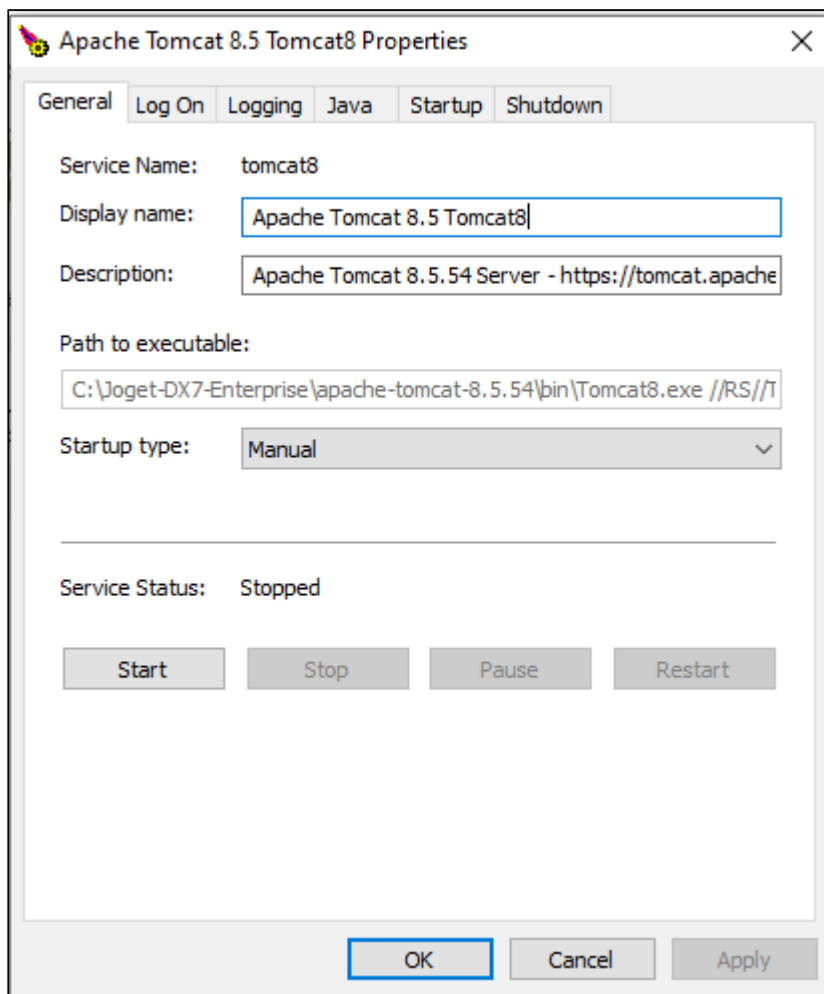
Command Prompt

```
C:\Joget-DX7-Enterprise\apache-tomcat-8.5.54\bin>service.bat install service_name Tomcat8JogetDX
Installing the service 'Tomcat8JogetDX' ...
Using CATALINA_HOME:      "C:\Joget-DX7-Enterprise\apache-tomcat-8.5.54"
Using CATALINA_BASE:      "C:\Joget-DX7-Enterprise\apache-tomcat-8.5.54"
Using JAVA_HOME:          "C:\Joget-DX7-Enterprise\jre11.0.2"
Using JRE_HOME:           "C:\Joget-DX7-Enterprise\jre11.0.2"
Using JVM:                 "C:\Joget-DX7-Enterprise\jre11.0.2\bin\server\jvm.dll"
The service 'Tomcat8JogetDX' has been installed.
```

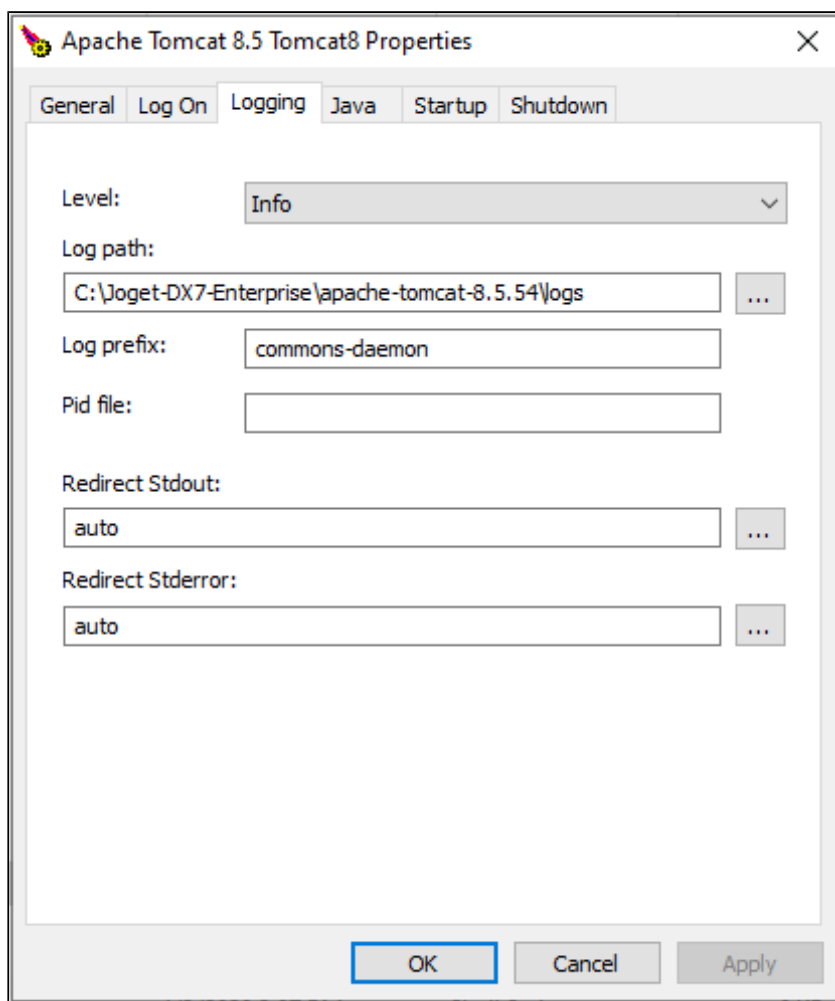
8. To verify, you may check in **Computer Management -> Services**.

Services (Local)					
Apache Tomcat 8.5 Tomcat8					
Start the service					
Description: Apache Tomcat 8.5.54 Server - https://tomcat.apache.org/					
Name	Description	Status	Startup Type	Log On As	
ActiveX Installer (AxInstSV)	Provides User Account Control validation for the installation...		Manual	Local System	
Adobe Acrobat Update Serv...	Adobe Acrobat Updater keeps your Adobe software up to d...	Running	Automatic	Local System	
Agent Activation Runtime...	Runtime for activating conversational agent applications		Manual	Local System	
Alloyn Router Service	Routes Alloyn messages for the local Alloyn clients. If this ...		Manual (Trig...	Local Service	
Apache Tomcat 8.5 Tomcat8	Apache Tomcat 8.5.54 Server - https://tomcat.apache.org/		Manual	Local Service	
App Readiness	Gets apps ready for use the first time a user signs in to this P...		Manual	Local System	
Apple Mobile Device Service	Provides the interface to Apple mobile devices.	Running	Automatic	Local System	
Application Identity	Determines and verifies the identity of an application. Disabl...		Manual (Trig...	Local Service	
Application Information	Facilitates the running of interactive applications with additi...	Running	Manual (Trig...	Local System	
Application Layer Gateway ...	Provides support for 3rd party protocol plug-ins for Internet...		Manual	Local Service	
AppX Deployment Service (...)	Provides infrastructure support for deploying Store applicati...		Manual	Local System	
AtherosSvc		Running	Automatic	Local System	
Auto Time Zone Updater	Automatically sets the system time zone.		Disabled	Local Service	

9. Get back to the `\apache-tomcat-8.5.54\bin` folder. From the command prompt, runs the command `tomcat8w.exe //ES/Tomcat8JogetDX`



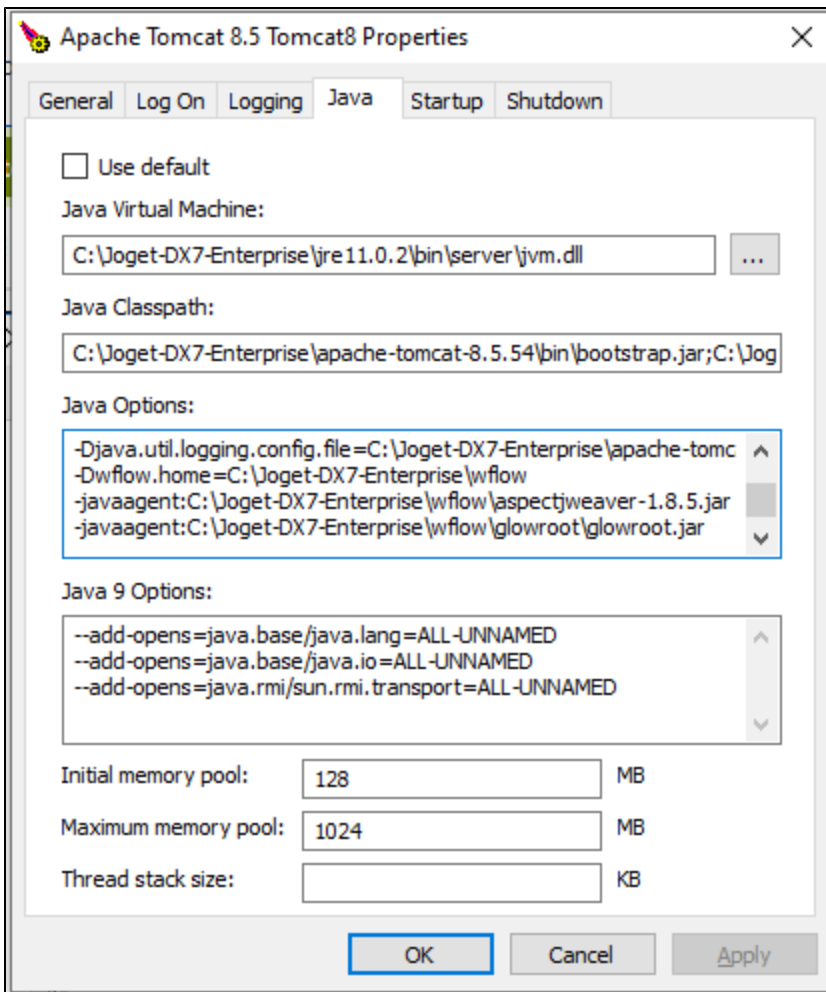
10. Navigate to **Log On** tab. The default value "Local Service" is known to not **provide enough permission** to run Joget. Change it by changing to using a local user account to run the service. Please read <https://stackoverflow.com/a/63907950> for more information.
11. Go to the **Logging** tab. Verify that the **Log path** is pointing to the correct location, by default, it should point it back to the **logs** folder of the current Tomcat already.
Select the level of logging you wish for in the **level** drop-down list.



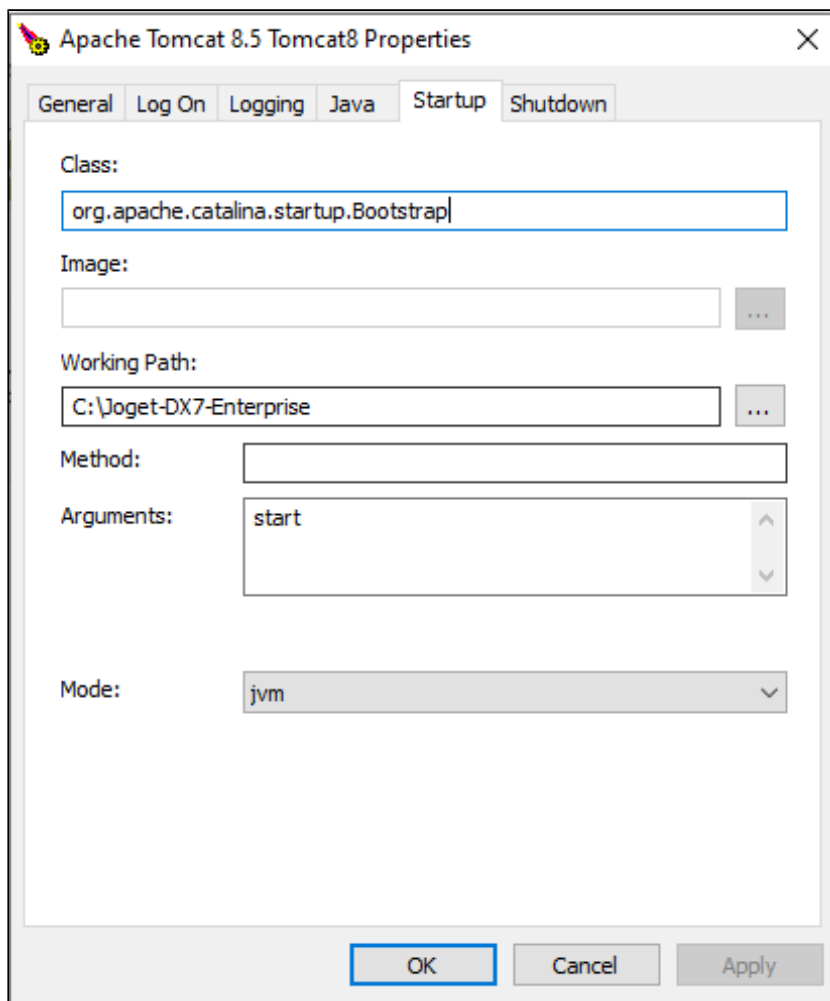
12. Next, go to the **Java** tab, change the **JavaVirtual Machine** file path to the file path shown below and **append** the following lines in the **Java Options** field. This is to define the **wflow** home folder from where Joget will run. At the same time, configure the **maximum memory pool** accordingly (i.e. 1024).

Append these lines

```
-Dwflow.home=C:\Joget-DX7-Enterprise\wflow  
-javaagent:C:\Joget-DX7-Enterprise\wflow\aspectjweaver-1.8.5.jar  
-javaagent:C:\Joget-DX7-Enterprise\wflow\glowroot\glowroot.jar
```



13. Go to **startup** tab, set the working path to your Joget's installation folder. Repeat it for **shutdown** tab too.



14. You can now start up Joget as a service.

After you have successfully added **Tomcat as a service**, you may also want to **add MySQL as a service** and **make Tomcat dependent on MySQL** as well.

1. [Installing MySQL as a Windows Service](#)
2. [Adding MySQL service as a Dependency to Tomcat service](#)

Reference: [Apache Tomcat 8 - Windows service HOW-TO](#)