

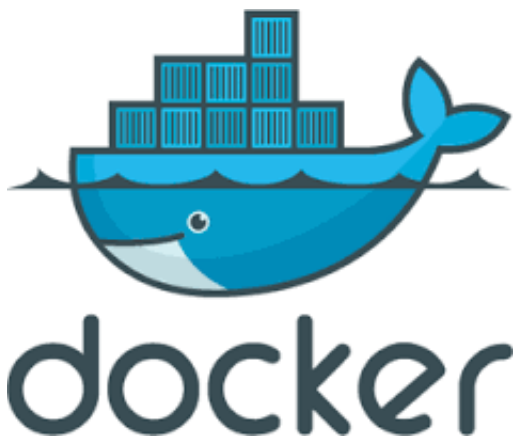
Home (<https://www.assistanz.com>) > Blog (<https://www.assistanz.com/blog/>) > Blog (<https://www.assistanz.com/category/blog/containers/>) > Installing Tomee Web Server Through Docker File For Windows C

# Installing Tomee Web Server through Docker Container

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🕒 June 27, 2017   Posted by: Loges   Category: Blog, Containers

(<https://www.assistanz.com/category/blog/containers/installing-tomee-web-server-through-docker-file-for-windows-container/>)



## Installing Tomee Web Server through Docker File For Windows Container

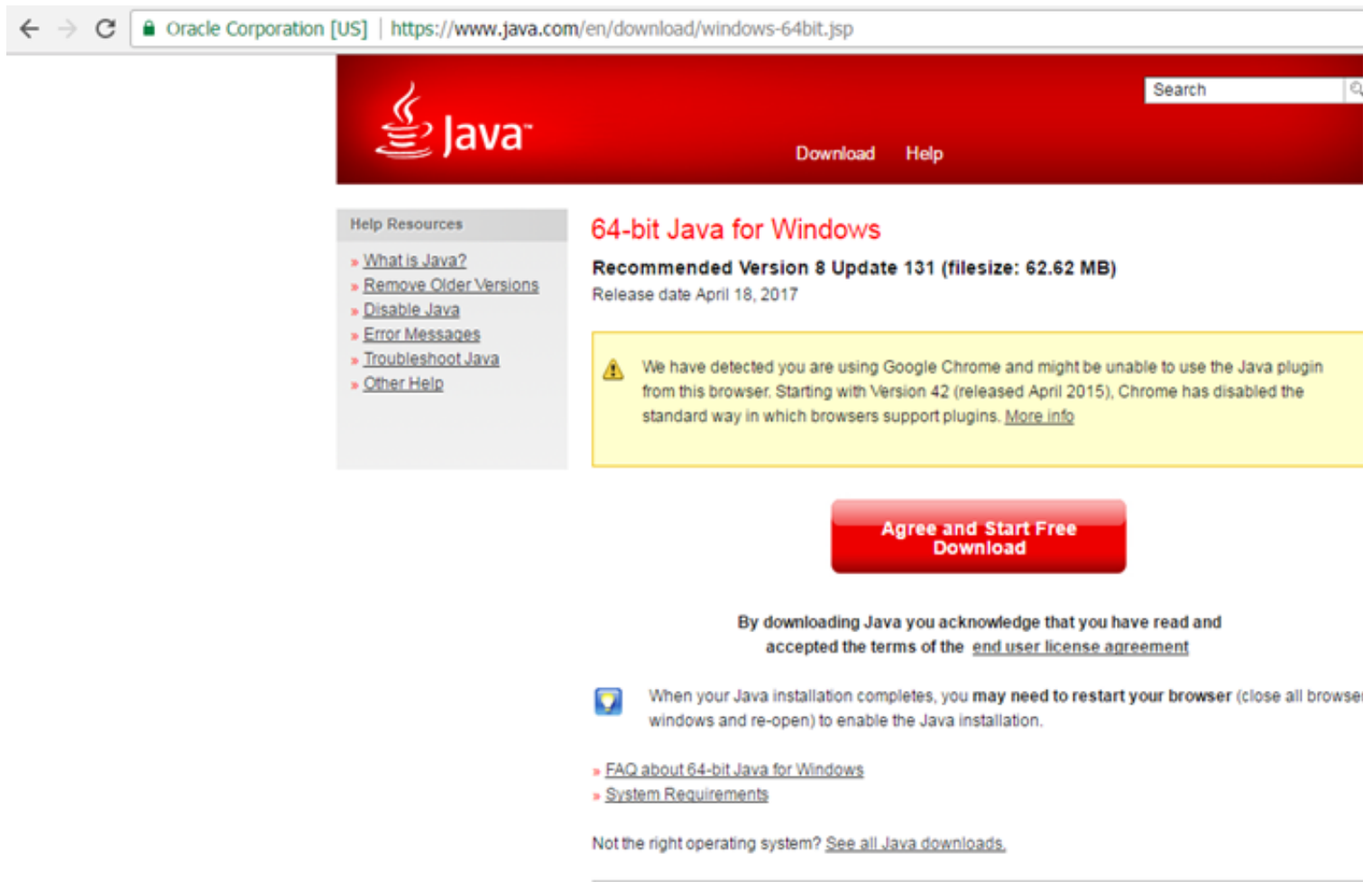
In this blog, we will show you installing tomee web server through docker file for Windows container

## REQUIREMENTS

- ♦ Windows container host with Docker service installed.
- ♦ Base windows server core image.
- ♦ JAVA & TOMEЕ Installation files.

## DOWNLOAD JRE SETUP FILE

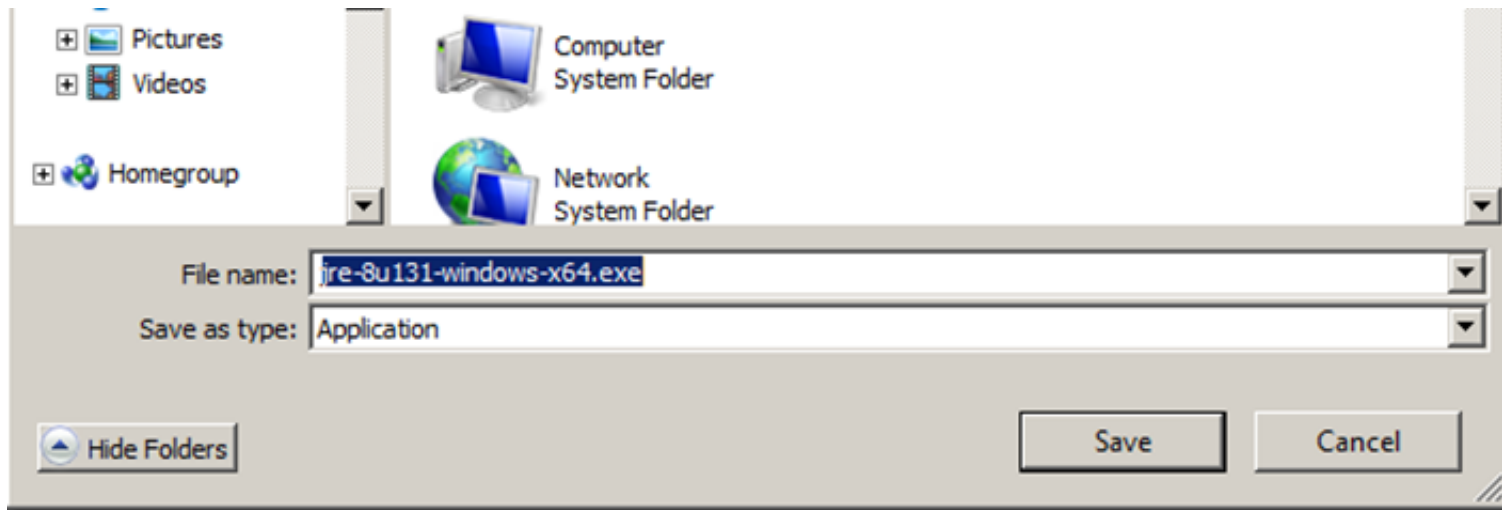
- ♦ Go to the URL <https://www.java.com/en/download/windows-64bit.jsp> (<https://www.java.com/en/download/windows-64bit.jsp>)



The screenshot shows the Oracle Java website for downloading 64-bit Java for Windows. The browser address bar shows the URL <https://www.java.com/en/download/windows-64bit.jsp>. The page features the Java logo and a search bar. A sidebar on the left lists 'Help Resources' including links to 'What is Java?', 'Remove Older Versions', 'Disable Java', 'Error Messages', 'Troubleshoot Java', and 'Other Help'. The main content area is titled '64-bit Java for Windows' and displays 'Recommended Version 8 Update 131 (filesize: 62.62 MB)' with a release date of April 18, 2017. A yellow warning box states: 'We have detected you are using Google Chrome and might be unable to use the Java plugin from this browser. Starting with Version 42 (released April 2015), Chrome has disabled the standard way in which browsers support plugins. [More info](#)'. Below this is a large red button labeled 'Agree and Start Free Download'. Further down, a text block says: 'By downloading Java you acknowledge that you have read and accepted the terms of the [end user license agreement](#)'. A blue icon with a lightbulb indicates: 'When your Java installation completes, you may need to restart your browser (close all browser windows and re-open) to enable the Java installation.' At the bottom, there are links for 'FAQ about 64-bit Java for Windows' and 'System Requirements', and a note: 'Not the right operating system? [See all Java downloads.](#)'

([https://www.assistanz.com/wp-content/uploads/2017/06/image\\_thumb10.png](https://www.assistanz.com/wp-content/uploads/2017/06/image_thumb10.png))

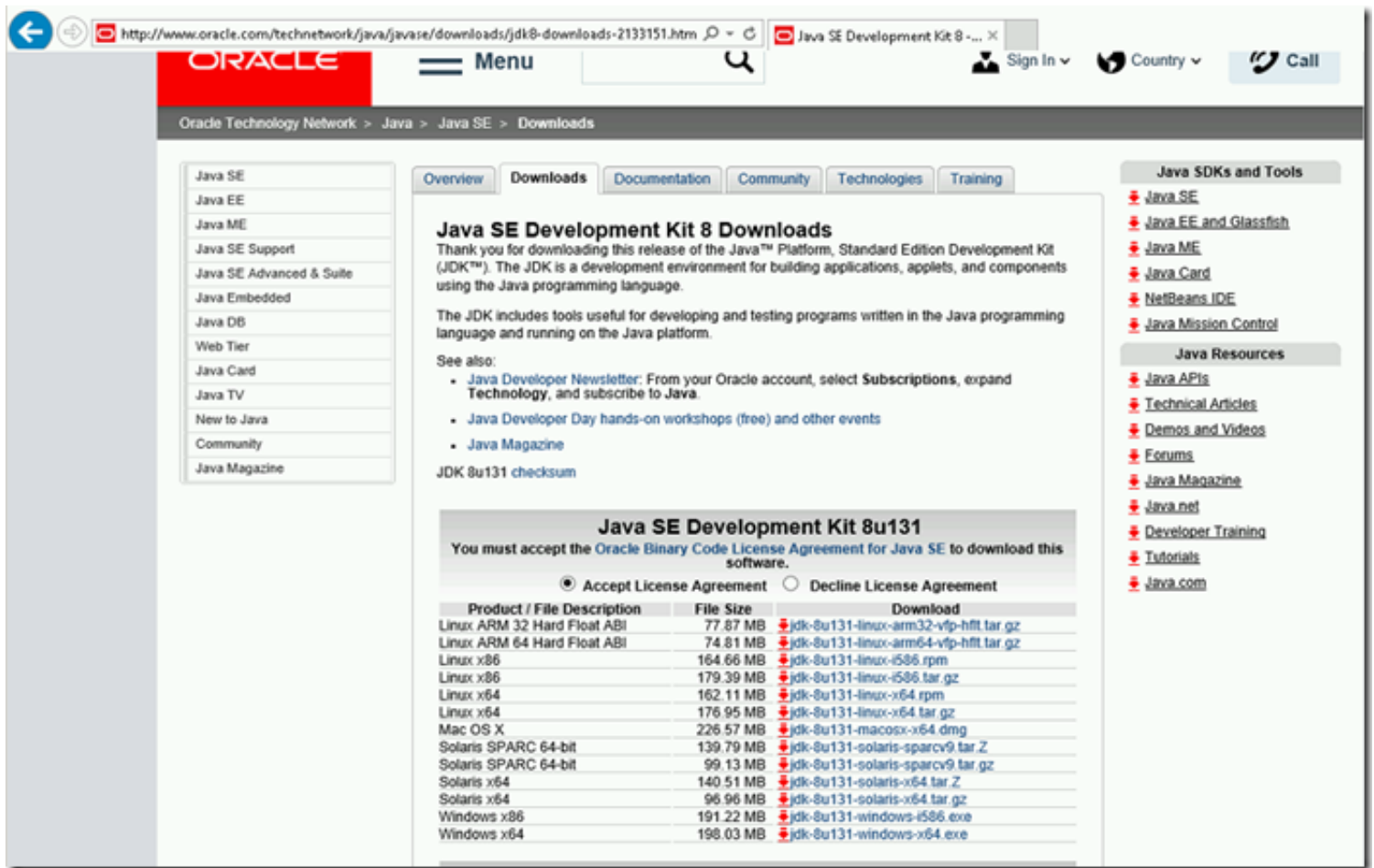
- ◆ Click on **Agree and Start Free Download** to download the file.



([https://www.assistanz.com/wp-content/uploads/2017/06/image\\_thumb7.png](https://www.assistanz.com/wp-content/uploads/2017/06/image_thumb7.png))

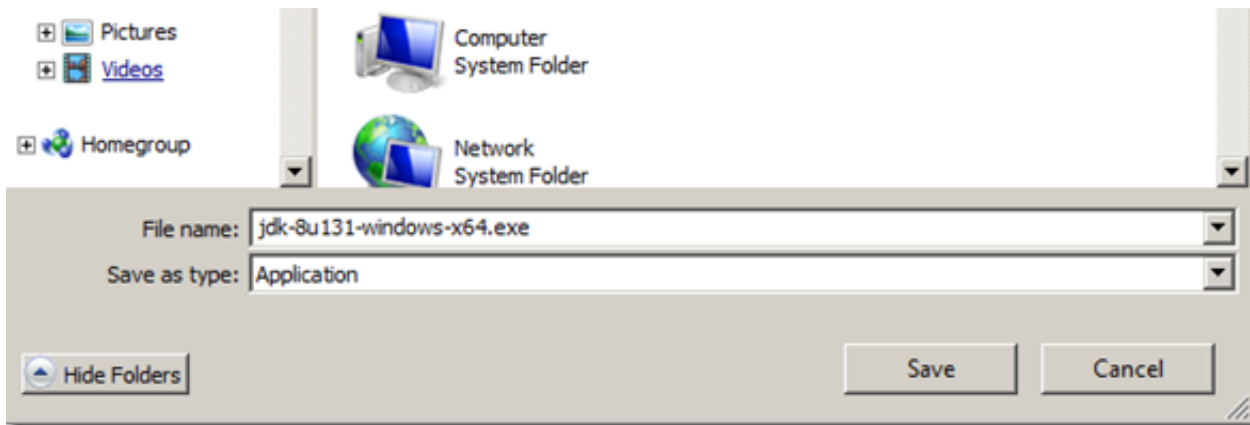
## DOWNLOAD JDK SETUP FILE

- ◆ Go to the URL <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>  
(<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>)



([https://www.assistanz.com/wp-content/uploads/2017/06/image11\\_thumb-1.png](https://www.assistanz.com/wp-content/uploads/2017/06/image11_thumb-1.png))

- Click on the **jdk8u131\_windows-x64.exe** link to download the JDK file.

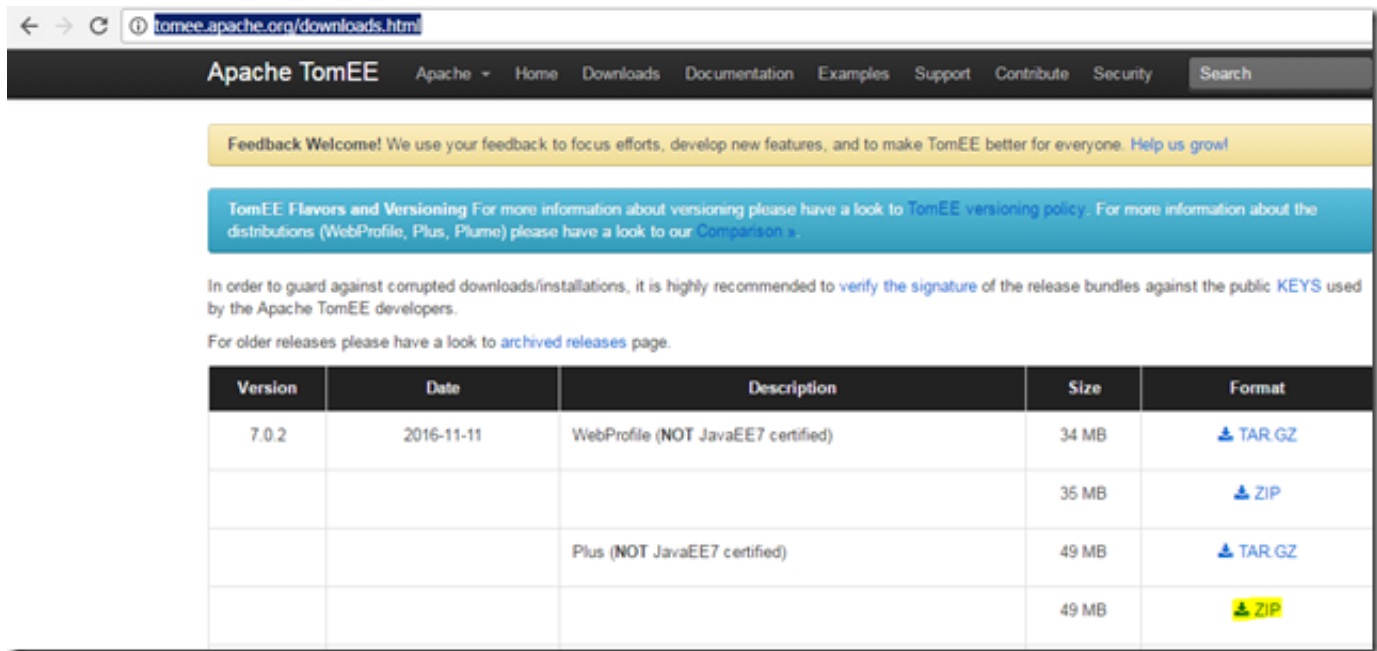


(<https://www.assi>)

content/uploads/2017/06/image\_thumb3.png)

**DOWNLOAD TOME**

- ◆ Go to the URL <http://tomee.apache.org/downloads.html> (<http://tomee.apache.org/downloads.html>) and download the latest version.



(<https://www.assistanz.com/wp-content/uploads/2017/06/image-72.png>)

- ◆ Extract the downloaded zip to a folder named **tomee**

## PREPARING THE ENVIRONMENT FOR BUILDING TOMEЕ CONTAINER IMAGE

- ◆ Create a new folder named tomee under c:\ drive using below command.

**New-Item -Type Directory -Name tomee -Path c:\**

```
PS C:\> New-Item -Type Directory -Name tomee -Path c:\

Directory: C:\

Mode                LastWriteTime         Length Name
----                -
d-----        6/26/2017   9:48 PM             tomee

PS C:\> _
```

(<https://www.assistanz.coi>

content/uploads/2017/06/image-73.png)

- ◆ Now create a new folder named **setup** under c:\tomee folder.

**New-Item -Type Directory -Name setup -Path C:\tomee\**

```
PS C:\> New-Item -Type Directory -Name setup -Path C:\tomee\

Directory: C:\tomee

Mode                LastWriteTime         Length Name
----                -
d-----        6/26/2017   9:52 PM             setup

PS C:\> _
```

(<https://www.assis>

content/uploads/2017/06/image-74.png)

- ◆ Create a new file name as **dockerfile** under c:\tomee folder.

**New-Item -Type File -Name dockerfile -Path C:\tomee\**

```
PS C:\> New-Item -Type File -Name dockerfile -Path C:\tomee\

Directory: C:\tomee

Mode                LastWriteTime         Length Name
----                -
-a-----        6/26/2017   9:54 PM             0 dockerfile

PS C:\> 
```

(<https://www.assi>

content/uploads/2017/06/image-75.png)

- ◆ Open the file **dockerfile** in notepad and paste the below content.

***# THIS DOCKER FILE WAS DEVELOPED BY ASSISTANZ NETWORKS***

***# SPECIFY THE CONTAINER IMAGE  
FROM microsoft/windowsservercore***

***# COPY THE TOMEЕ INSTALLATION FILES INTO THE CONTAINER  
ADD ./setup c:/source***

***RUN powershell.exe -command |***

***# INSTALLING JAVA JRE  
./source/jre.cmd; |***

***# INSTALLING JAVA JDK  
./source/jdk.cmd; |***

***# COPYING TOMEЕ SETUP FILES TO C Drive  
Copy-Item c:/source/tomee -Destination c:/tomee -Recurse; |***

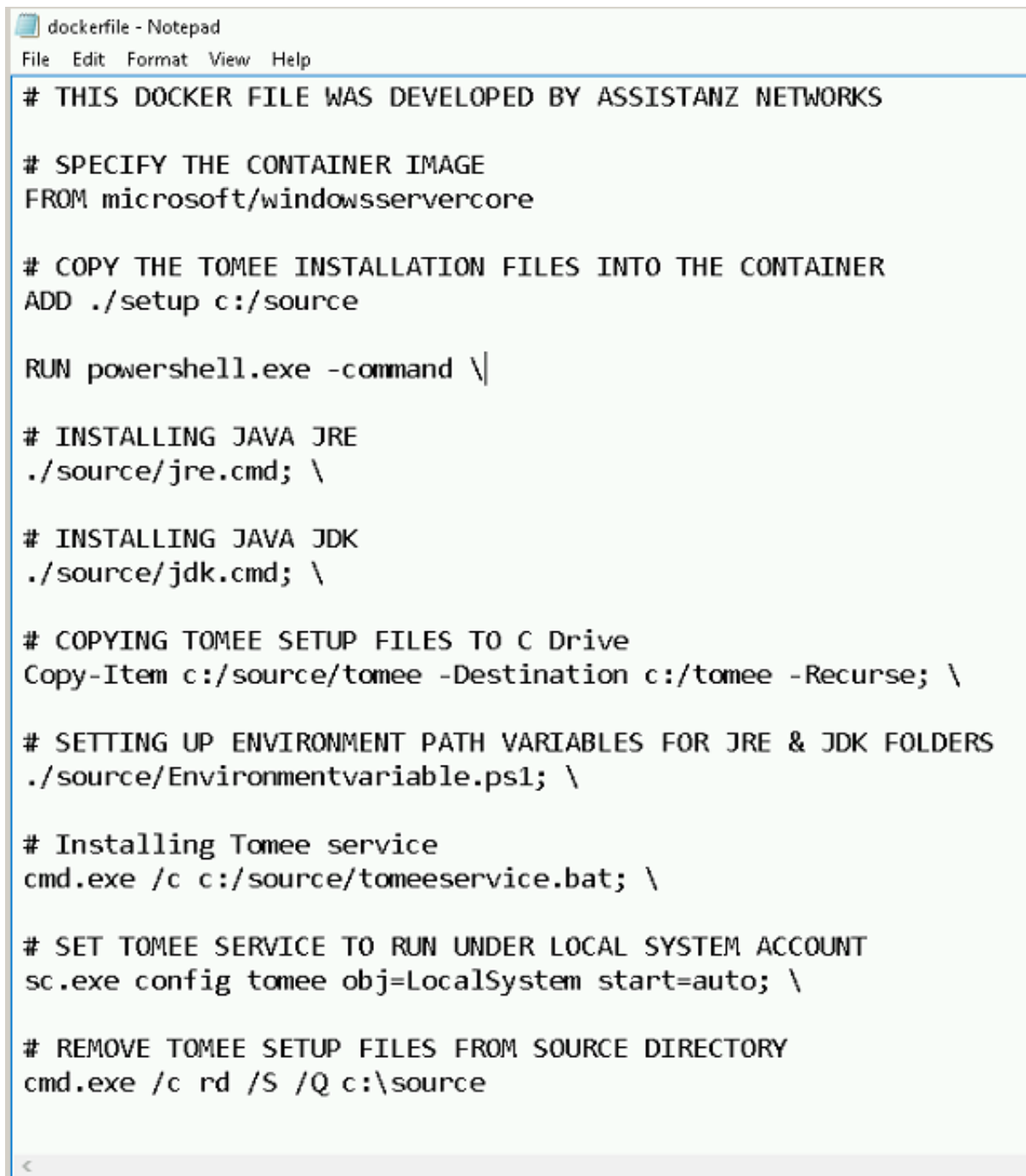
***# SETTING UP ENVIRONMENT PATH VARIABLES FOR JRE & JDK FOLDERS  
./source/Environmentvariable.ps1; |***

***# Installing Tomee service  
cmd.exe /c c:/source/tomeeservice.bat; |***

***# SET TOMEЕ SERVICE TO RUN UNDER LOCAL SYSTEM ACCOUNT  
sc.exe config tomee obj=LocalSystem start=auto; |***

***# REMOVE TOMEЕ SETUP FILES FROM SOURCE DIRECTORY  
cmd.exe /c rd /S /Q c:\source***





```
dockerfile - Notepad
File Edit Format View Help

# THIS DOCKER FILE WAS DEVELOPED BY ASSISTANZ NETWORKS

# SPECIFY THE CONTAINER IMAGE
FROM microsoft/windowsservercore

# COPY THE TOMEЕ INSTALLATION FILES INTO THE CONTAINER
ADD ./setup c:/source

RUN powershell.exe -command \

# INSTALLING JAVA JRE
./source/jre.cmd; \

# INSTALLING JAVA JDK
./source/jdk.cmd; \

# COPYING TOMEЕ SETUP FILES TO C Drive
Copy-Item c:/source/tomee -Destination c:/tomee -Recurse; \

# SETTING UP ENVIRONMENT PATH VARIABLES FOR JRE & JDK FOLDERS
./source/Environmentvariable.ps1; \

# Installing Tomee service
cmd.exe /c c:/source/tomeeservice.bat; \

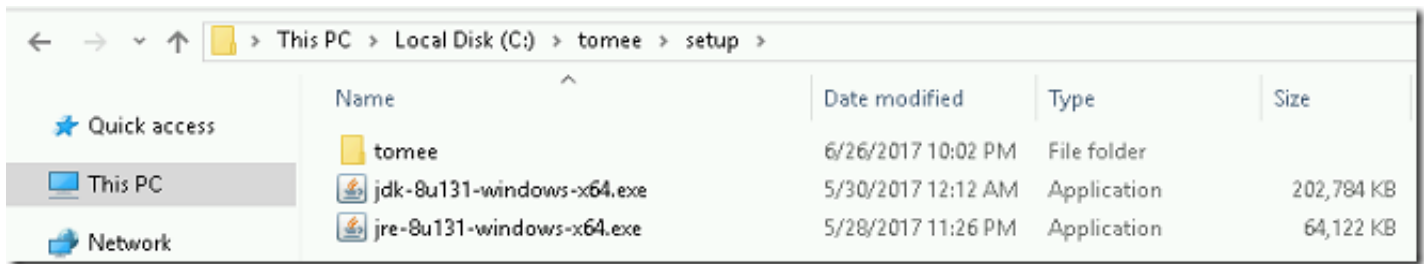
# SET TOMEЕ SERVICE TO RUN UNDER LOCAL SYSTEM ACCOUNT
sc.exe config tomee obj=LocalSystem start=auto; \

# REMOVE TOMEЕ SETUP FILES FROM SOURCE DIRECTORY
cmd.exe /c rd /S /Q c:\source
```

(<https://www.assista>

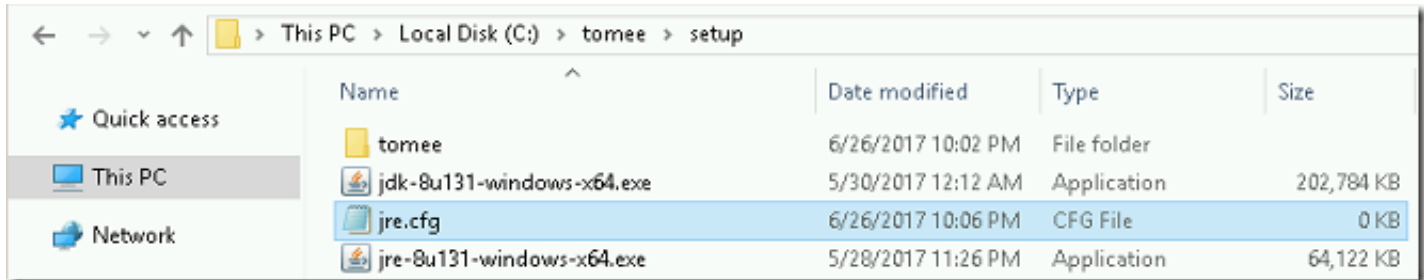
content/uploads/2017/06/image-76.png)

- ◆ Copy the downloaded JDK, JRE & TOMEЕ setup files in **C:\tomee\setup** folder.



(<https://www.assistanz.com/wp-content/uploads/2017/06/image-77.png>)

- ◆ Create a new file named **jre.cfg** in **C:\tomee\setup** folder.

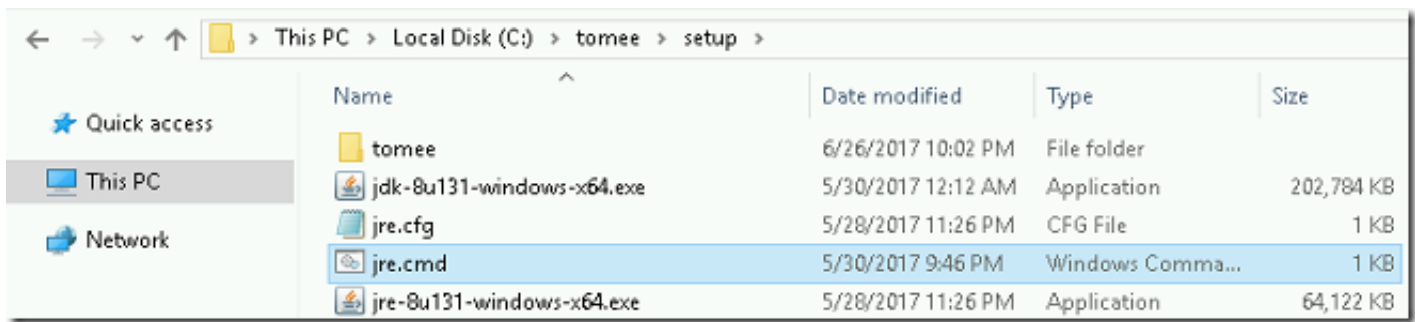


(<https://www.assistanz.com/wp-content/uploads/2017/06/image-78.png>)

- ◆ Add the below content in **jre.cfg** file and save it.

```
INSTALL_SILENT=Enable  
SPONSORS=Disable  
NOSTARTMENU=Enable  
REBOOT=Disable  
EULA=Disable  
AUTO_UPDATE=Disable  
STATIC=Enable
```

- ◆ Create a new file named **jre.cmd** and add the below content and save it.



(<https://www.assistanz.com/wp-content/uploads/2017/06/image-79.png>)

```
pushd %~dp0
```

```
start /wait jre-8u131-windows-x64.exe INSTALLCFG=%~dp0jre.cfg
```

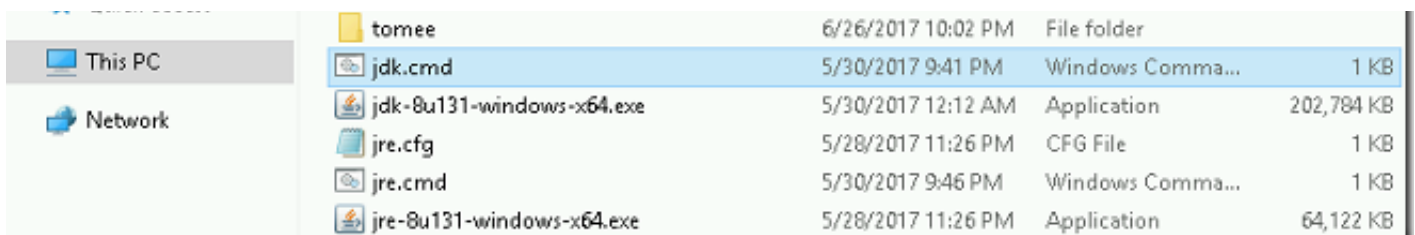


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(<https://www.assistanz.com/wp-content/uploads/2017/06/image-80.png>)

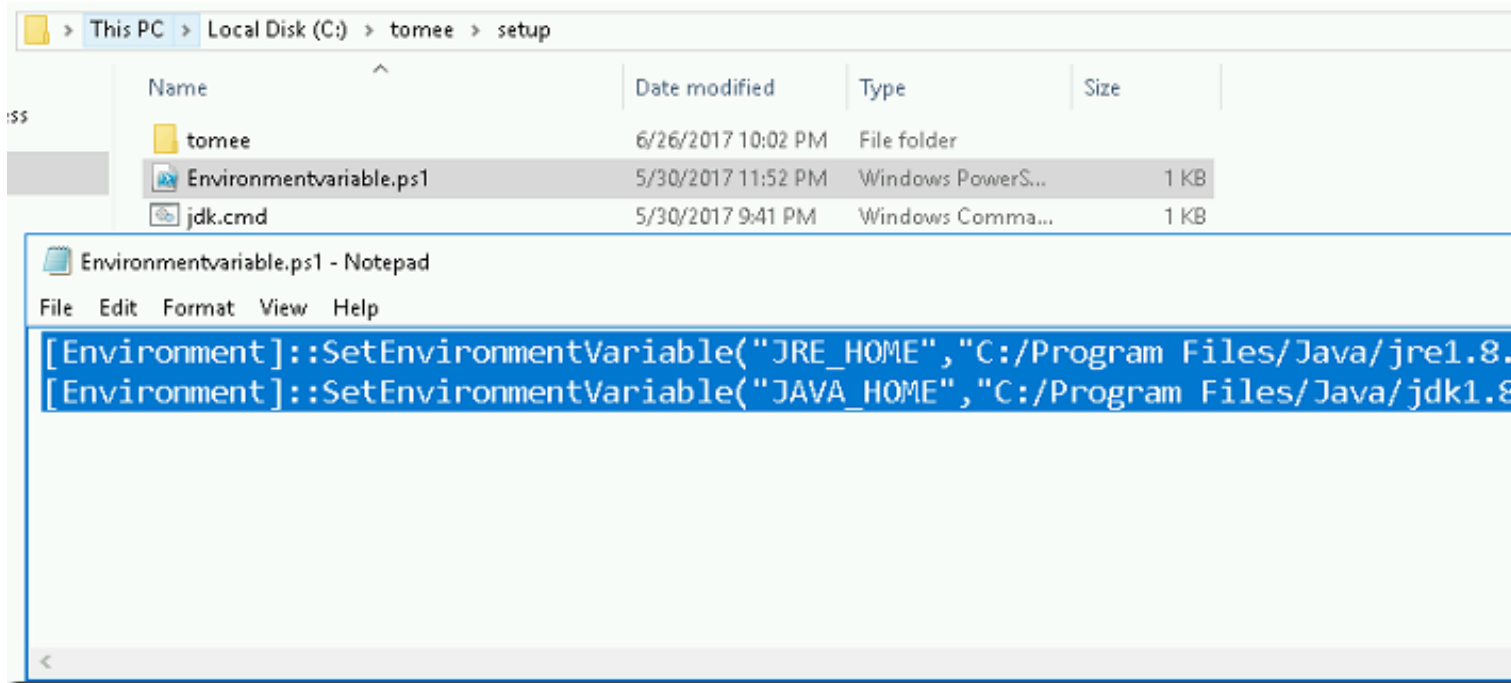
```
pushd %~dp0
```

```
start /wait jdk-8u131-windows-x64.exe INSTALLCFG=%~dp0jre.cfg
```

- ◆ Create a new file named **Environmentvariable.ps1** and add the below content and save it.

```
[Environment]::SetEnvironmentVariable("JRE_HOME","C:/Program Files/Java/jre1.8.0_131")
```

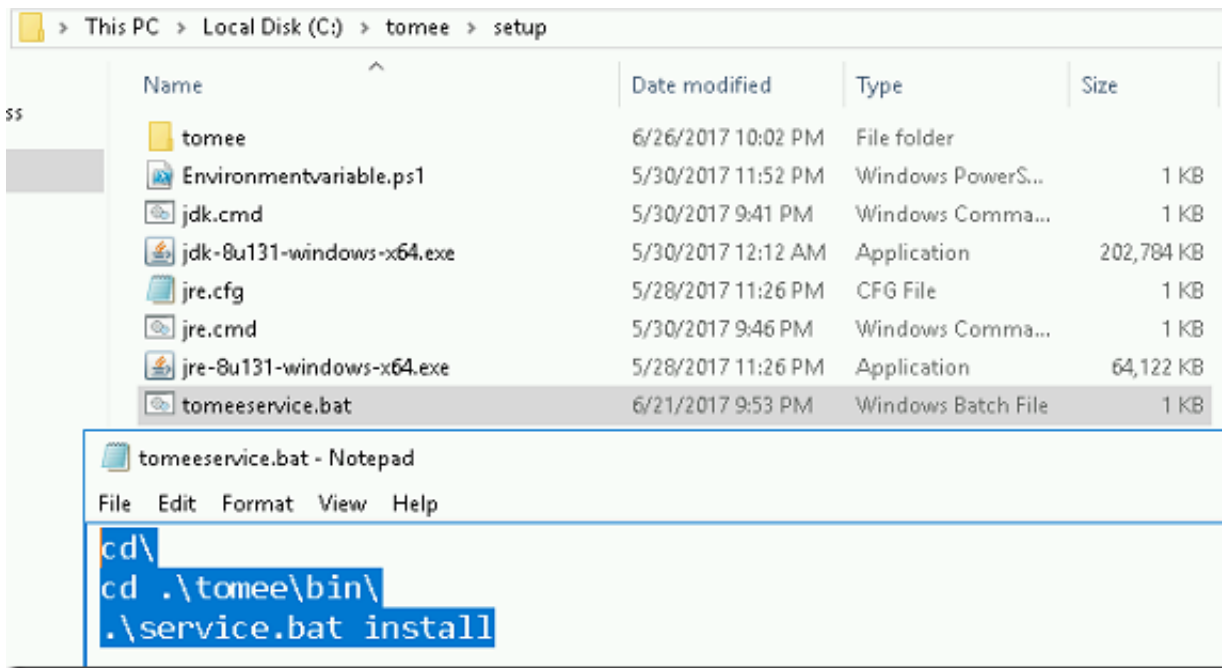
```
[Environment]::SetEnvironmentVariable("JAVA_HOME","C:/Program Files/Java/jdk1.8.0_131")
```



(<https://www.assistanz.com/wp-content/uploads/2017/06/image-81.png>)

- ◆ Create a new file named **tomeeservice.bat** and paste the below content and save it.

```
cd |  
cd. | tomee | bin |  
. | service.bat install
```



(<https://www.assist>

content/uploads/2017/06/image-82.png)

- ◆ We have completed the preparation part for tomee image deployment.

## BUILDING THE IMAGE

- ◆ Go to PowerShell window and execute the below command.

**docker build -t tomee c:\tomee**



(<https://www.assistanz.com/wp-content/uploads>

83.png)

- ◆ It will take several minutes to complete the build process.
- ◆ The build completed successfully.

```

Step 1/3 : FROM microsoft/windowsservercore
--> b4713e4d8bab
Step 2/3 : ADD ./setup c:/source
--> a013cd0d70ac
Removing intermediate container 0b62331e5092
Step 3/3 : RUN powershell.exe -command ./source/jre.cmd; ./source/jdk.cmd; Copy-Item c:/source/tomee -Destination
:/tomee -Recurse; ./source/Environmentvariable.ps1; cmd.exe /c c:/source/tomeeservice.bat; sc.exe config tomee ob
LocalSystem start=auto; cmd.exe /c rd /S /Q c:\source
--> Running in 583ecbb0d4a6

C:\>pushd C:\source\

C:\source>start /wait jre-8u131-windows-x64.exe INSTALLCFG=C:\source\jre.cfg

C:\>pushd C:\source\

C:\source>start /wait jdk-8u131-windows-x64.exe INSTALLCFG=C:\source\jre.cfg

C:\>cd\

C:\>cd .\tomee\bin\

C:\tomee\bin>.\service.bat install
Installing the service 'TomEE' ...
Using CATALINA_HOME:      "C:\tomee"
Using CATALINA_BASE:      "C:\tomee"
Using JAVA_HOME:          "C:/Program Files/Java/jdk1.8.0_131"
Using JRE_HOME:           "C:/Program Files/Java/jre1.8.0_131"
Using JVM:                 "C:/Program Files/Java/jre1.8.0_131\bin\server\jvm.dll"
Installed, will now configure TomEE
The service 'TomEE' has been installed.
[SC] ChangeServiceConfig SUCCESS
c:\source\tomee\logs - There are no more files.
c:\source\tomee\work - There are no more files.
--> 5f913117c2e4
Removing intermediate container 583ecbb0d4a6
Successfully built 5f913117c2e4

```

(<https://www.assistanz.com/wp-content/uploads/2017/06/image-84.png>)

## VERIFYING THE IMAGE

- ◆ Launch a new container using the below command.

**docker run -it tomee powershell**

```
PS C:\> docker run -it tomee powershell
```

(<https://www.assistanz.com/wp-content/uploads/>

86.png)

- ◆ Once the container is up and running, verify the tomee service status.

**Get-Service tomee**

```
PS C:\> get-service tomee
```

Status	Name	DisplayName
Running	tomee	Apache TomEE

```
PS C:\> _
```

([https://www.assistanz.com/wp-](https://www.assistanz.com/wp-content/uploads/2017/06/image-87.png)

[content/uploads/2017/06/image-87.png](https://www.assistanz.com/wp-content/uploads/2017/06/image-87.png))

- ◆ Type **ipconfig** to find the container IP address.

```
PS C:\> ipconfig
```

Windows IP Configuration

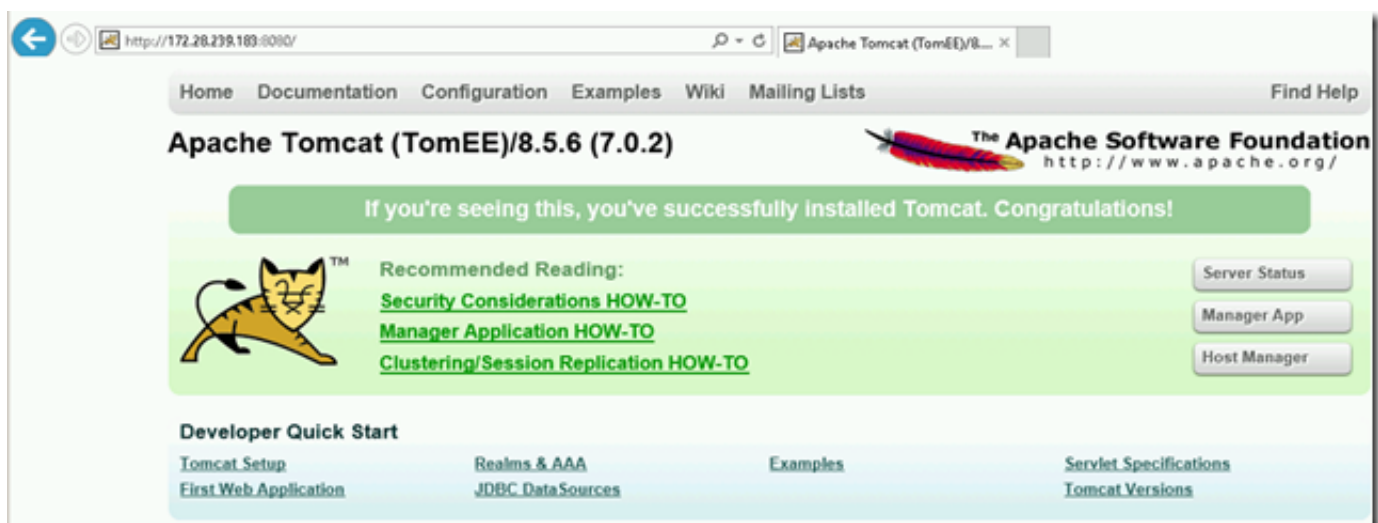
Ethernet adapter vEthernet (Container NIC d02d3266):

Connection-specific DNS Suffix	:	
Link-local IPv6 Address	:	fe80::a823:4ef3:1304:1810%29
IPv4 Address	:	172.28.239.183
Subnet Mask	:	255.255.240.0
Default Gateway	:	172.28.224.1

```
PS C:\> _
```

(<https://www.assistanz.com/wp-content/uploads/2017/06/image-88.png>)

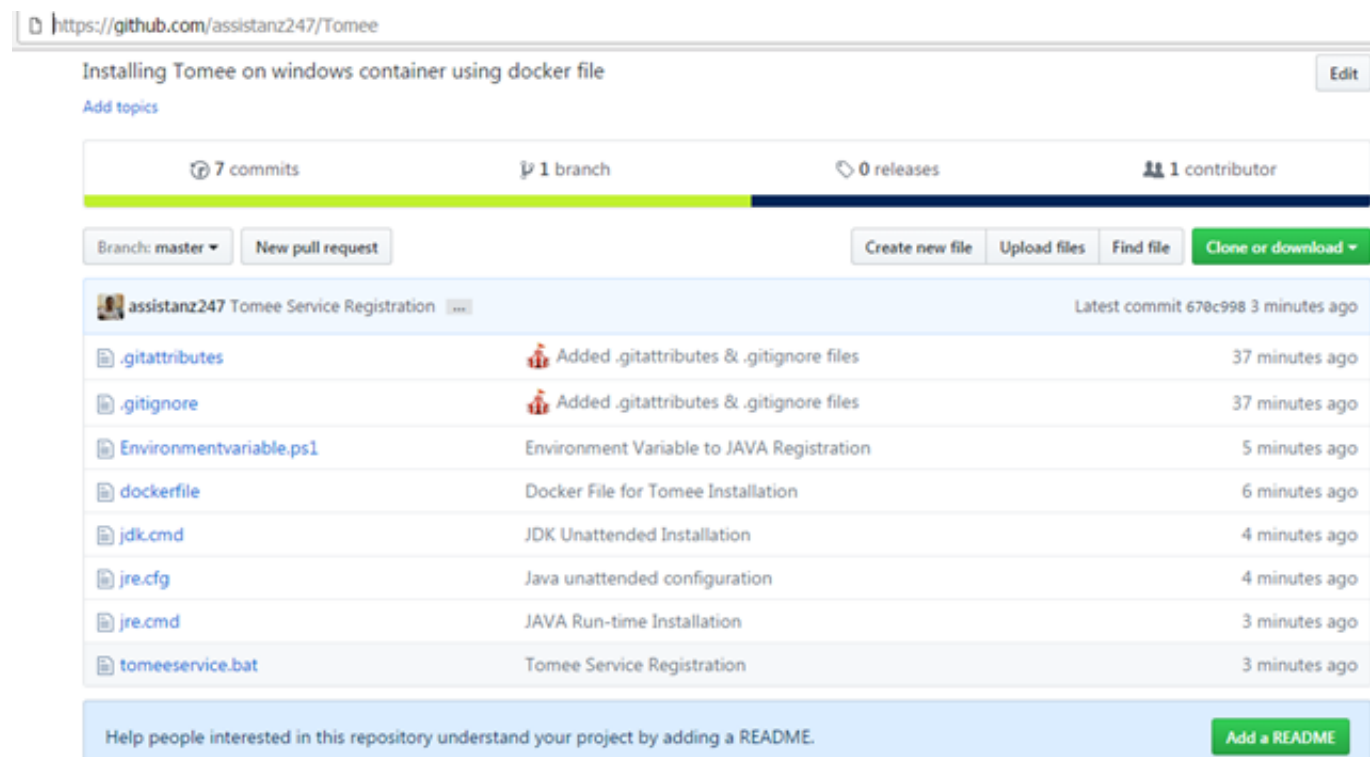
- ◆ Browse the container IP (**172.28.239.183**) with default port number **8080** from the container host.



(<https://www.assistanz.com/wp-content/uploads/2017/06/image-89.png>)

- ◆ You can download the script files from the GitHub URL.

<https://github.com/assistanz247/Tomee> (<https://github.com/assistanz247/Tomee>)




(<https://www.assistanz.com/wp-content/uploads/2017/06/image-90.png>)

- ◆ You can download the pre-built tomee image from the Docker hub URL.

<https://hub.docker.com/r/assistanz247/tomee-windows/> (<https://hub.docker.com/r/assistanz247/tomee-windows/>)



Secure | <https://hub.docker.com/r/assistanz247/tomee-windows/>


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# assistanz247/tomee-windows ☆

Last pushed: 5 days ago

Repo Info Tags Collaborators Webhooks Settings


Short Description 

Apache Tomee for windows container

Full Description 


We have built this container using apache tomee for windows container. Also, we have installed the JDK & JRE through docker file.

You can download the script files from GITHUB URL.  
<https://github.com/assistanz247/Tomee>

Docker Pull Command 

```
docker pull assistanz247/tomee-windows
```

Owner

 assistanz247

(<https://www.assistanz.com/wp-content/uploads/2017/06/image-91.png>)

**VIDEO:**