

★ Client Login (https://www.assistanz.com/members/)

Contact Us (https://www.assistanz.com/contact-us)

+1 888 500 1070 (Toll Free)

Home (Https://Www.assistanz.com) > Blog (Https://Www.assistanz.com/Blog/) > Blog (Https://Www.assistanz.com/Catego (Https://Www.assistanz.com/Category/Blog/Containers/) > Installing JENKINS Through Docker File For Windows Container

Installing JENKINS through Docker File For W

② June 21, 2017

Posted by: Loges

Category: Blog, Containers

(https://www.assis jenkins-thrc windows-cor



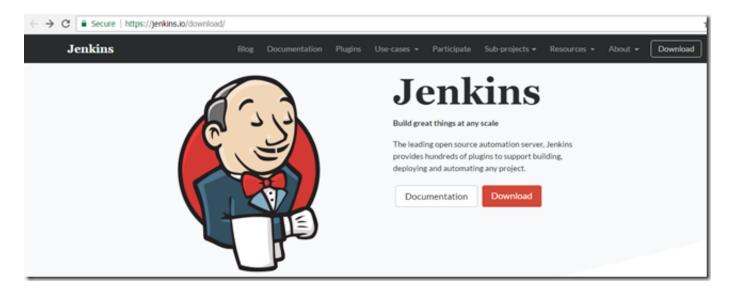
Installing JENKINS through Docker For Windows Container

REQUIREMENTS

- Windows Container Host
- JENKINS setup file

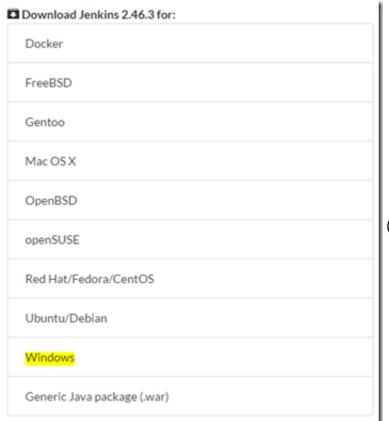
DOWNLOAD JENKINS

• Go to the URL https://jenkins.io/download/ (https://jenkins.io/download/)



(https://www.assistanz.com/wp-content/uploads/2017/06/image-44.png)

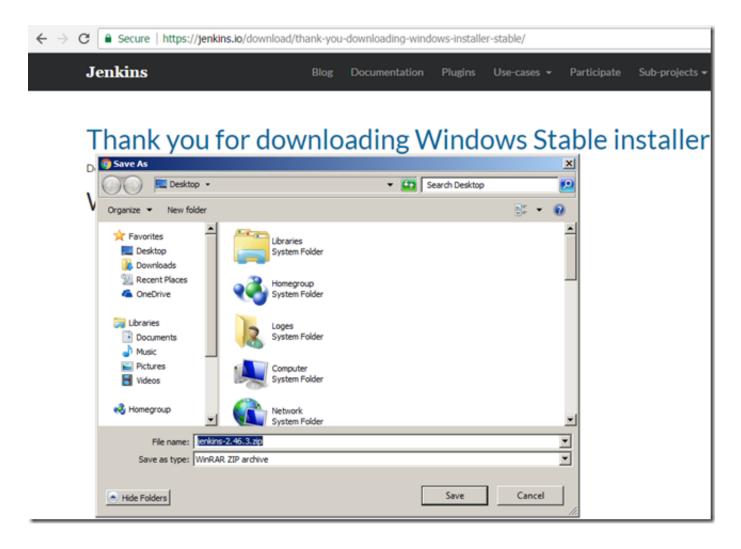
Scroll down and click on the Windows link



(https://www.assistanz.com/wp-content/uploads/2

45.png)

• It prompts us to download the zip file.



(https://www.assistanz.com/wp-content/uploads/2017/06/image-46.png)

• Once the download is complete and extracts the MSI from the ZIP file.



(https://www.assistanz.com/wp-content/uploads/2017/06/image-47.png)

PREPARING BUILD ENVIRONMENT

Create a folder named **Jenkins** in C:\ drive using below command

New-Item -Type Directory -Name jenkins -Path c:\

(https://www.assistanz.com/wp-content/uploads/2017/06/image-48.png)

• Create one more folder name **source** inside **C:\jenkins** folder.

New-Item - Type Directory - Name setup - path C:\jenkins\

```
PS C:\> New-Item -Type Directory -Name setup -path C:\jenkins\

Directory: C:\jenkins

Mode LastWriteTime Length Name
---- 6/20/2017 3:38 AM setup

PS C:\> _
```

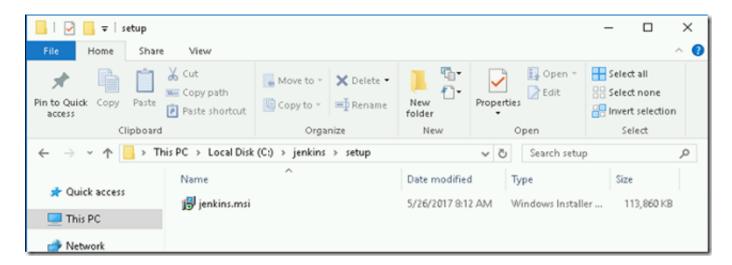
(https://www.assistanz.com/wp-content/uploads/2017/06/image-49.png)

• Create a filename **dockerfile** inside c:\jenkins folder.

New-Item - Type File - Name dockerfile - Path C:\jenkins\

(https://www.assistanz.com/wp-content/uploads/2017/06/image-50.png)

• Copy the downloaded jenkins setup file to **c:\jenkins\setup** folder.



(https://www.assistanz.com/wp-content/uploads/2017/06/image-58.png)

• Open the **dockerfile** in the notepad and add the below code and save it.

#THIS DOCKER FILE IS DEVELOPED BY ASSISTANZ NETWORKS

#SPECIFY THE CONTAINER IMAGE

FROM microsoft/windowsservercore

#COPY THE JENKINS INSTALLATION FILES INTO THE CONTAINER

ADD ./setup c:/jenkins

#INSTALLING IIS

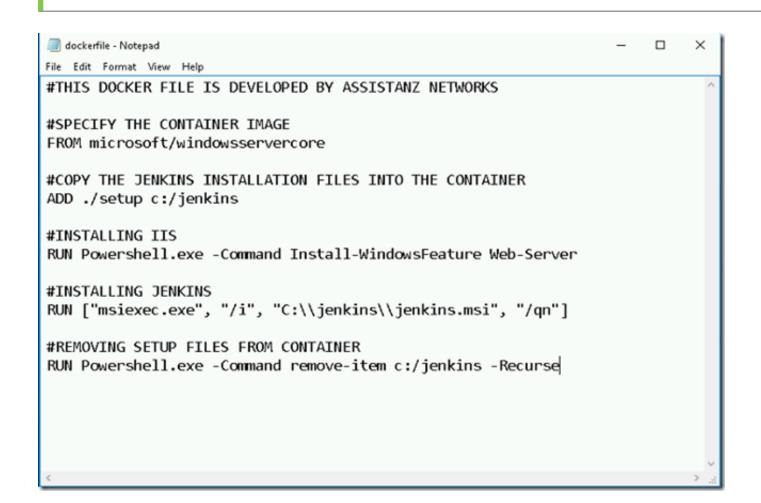
RUN Powershell.exe - Command Install-WindowsFeature Web-Server

#INSTALLING JENKINS

RUN ["msiexec.exe", "/i", "C: | | jenkins | | jenkins.msi", "/qn"]

#REMOVING SETUP FILES FROM CONTAINER

RUN Powershell.exe - Command remove-item c:/jenkins - Recurse



BUILDING THE IMAGE

• Go-to PowerShell and execute the below command to build the jenkins image.

docker build -t jenkins c:\jenkins

```
Administrator: Windows PowerShell (2)

PS C:\> docker build -t jenkins c:\jenkins_ (https://www.assistanz.com/wp-content/uploads/201)
```

60.png)

• It will take several minutes to complete the build.

```
Administrator: Windows PowerShell (2)
PS C:\> docker build -t jenkins c:\jenkins
Sending build context to Docker daemon 116.6 MB
Step 1/5 : FROM microsoft/windowsservercore
---> b4713e4d8bab
Step 2/5 : ADD ./setup c:/jenkins
---> 13c1bbdb3eba
Removing intermediate container 7f4e46ba624b
Step 3/5 : RUN Powershell.exe -Command Install-WindowsFeature Web-Server
 ---> Running in 757de6757ee5
Success Restart Needed Exit Code
                                           Feature Result
                                           {Common HTTP Features, Default Documen...
True
                          Success
 ---> e0b01daa0ba7
Removing intermediate container 757de6757ee5
Step 4/Š : RUN msiexec.exe /i C:\jenkins\jenkins.msi /qn
---> Running in 88ade61bb7fe
---> a726a762bb91
Removing intermediate container 88ade61bb7fe
Step 5/5 : RUN Powershell.exe -Command remove-item c:/jenkins -Recurse
 ---> Running in 31715344e305
---> 4e7858467e26
Removing intermediate container 31715344e305
Successfully built 4e7858467e26
PS C:\> _
```

(https://www.assistanz.com/wp-content/uploads/2017/06/image-61.png)

CONFIGURE JENKINS

Launch a new container using the Jenkins image which we built earlier.

docker run -it jenkins powershell

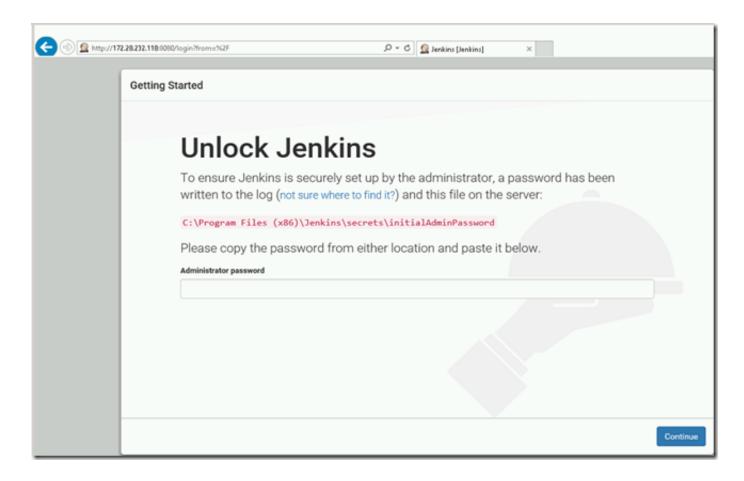
```
PS C:\> docker images
REPOSITORY
                                           TAG
                                                                                                    CREATED
                                                                                                    17 hours ago
                                                                       4e7858467e26
                                                                                                                                 11 GB
                                           latest
microsoft/nanoserver
                                                                                                                                 1.02 GB
1.11 GB
                                           latest
                                                                       6c367cf4cb98
                                                                                                    6 weeks ago
                                                                                                    2 months ago
2 months ago
3 months ago
assistanz247/nanoserver-iis
nanoserver/iis
microsoft/windowsservercore
                                                                        02fa91a462a0
                                           latest
                                                                                                                                 1.15 GB
10.1 GB
                                                                       4b0af9b7f036
                                           latest
                                           latest
PS C:\>
PS C:\>
PS C:\>
    C:\> docker run -it jenkins powershell_
```

(https://www.assistanz.com/wp-content/uploads/2017/06/image-62.png)

• Once the container is created, type **ipconfig** to find the IP address.

(https://www.assistanz.com/wp-content/uploads/2017/06/image-63.png)

• Browse the IP along with port 8080 from your container host. It prompts for the initial administrator password to



(https://www.assistanz.com/wp-content/uploads/2017/06/image-64.png)

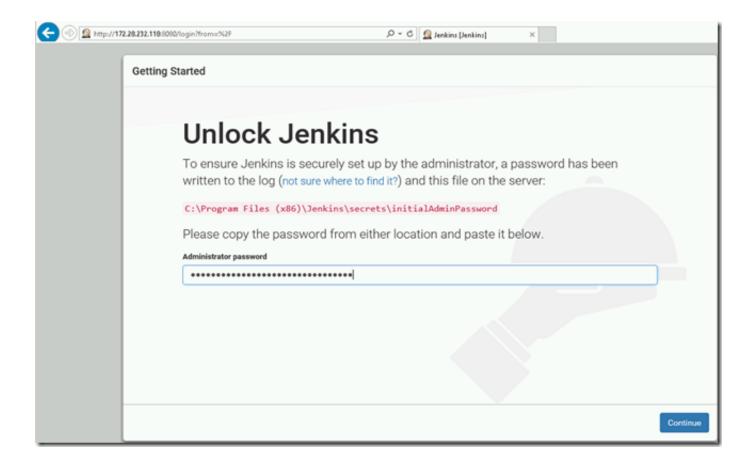
• Type the below command to view the administrator password from the **initialadminpassword** file.

type 'C:\Program Files (x86)\Jenkins\secrets\initialAdminPassword'

```
PS C:\> type 'C:\Program Files (x86)\Jenkins\secrets\initialAdminPassword'
73788eb3721d4a4e9c6a5e086d109d89
PS C:\> _
```

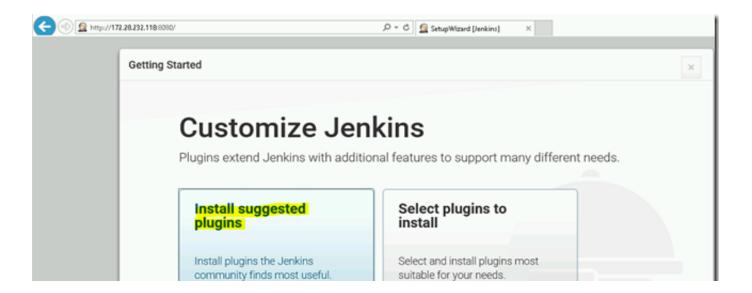
(https://www.assistanz.com/wp-content/uploads/2017/06/image-65.png)

• Copy & paste the password and click **continue**.



(https://www.assistanz.com/wp-content/uploads/2017/06/image-66.png)

• In the next screen, select the plugins to be installed for your environment. For this demo, we have installed all the for Jenkins.





(HTTPS://WWW.ASSISTANZ.COM/)

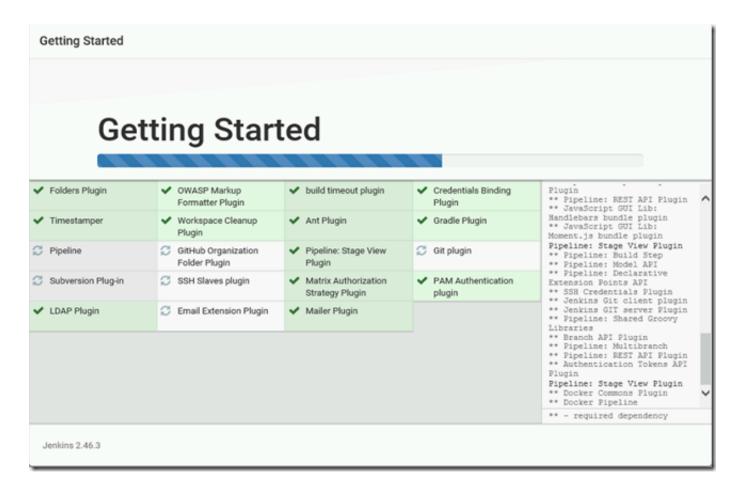
About Us (https://www.assis

Cloud Services IMS Cons

Mobility (https://www.assiste

(https://www.assistanz.com/wp-content/uploads/2017/06/image-67.png)

• It will take few minutes to complete the installation.



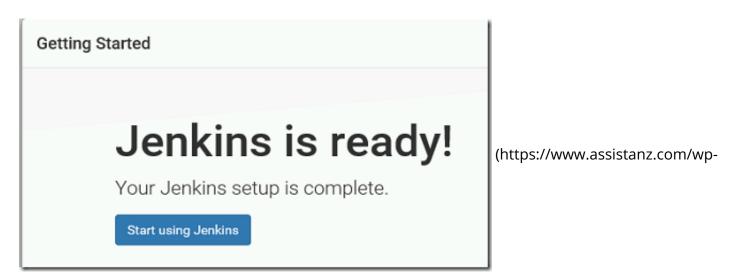
(https://www.assistanz.com/wp-content/uploads/2017/06/image-68.png)

• In next screen, it prompts for to create a new admin user. Provide the details and click **save and finish**.

Getting Started		
Creat	e First Admin User	
Username: Password: Confirm password: Full name: E-mail address:		
Jenkins 2.46.3	Continue as admin	Save and Finish

(https://www.assistanz.com/wp-content/uploads/2017/06/image-69.png)

• The final screen shows that Jenkins is ready. Click on **Start using Jenkins** button.



content/uploads/2017/06/image-70.png)

• Now jenkins is available for our environment.



(https://www.assistanz.com/wp-content/uploads/2017/06/image-71.png)

You can download the pre-built image from the Docker Hub URL

https://hub.docker.com/r/assistanz247/jenkins-windows/

Also, you can download the dockerfile from GitHub URL.

https://github.com/assistanz247/JENKINS

VIDEO