

Install Jenkins on Windows

1. Visit <https://jenkins.io/download/>
2. Click on **Generic Java Package (war)** link
3. Download the .war file
4. Copy the war file to your C:\
5. Open CMD prompt
6. Go to C:\ folder and use the java command to run WAR file as shown below

```
C:\WINDOWS\system32\cmd.exe

Microsoft Windows [Version 10.0.17134.950]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Nanda>cd\

C:\>java -jar jenkins.war_
```

7. Observe the logs for a temporary password as shown below

```
Please use the following password to proceed to installation:

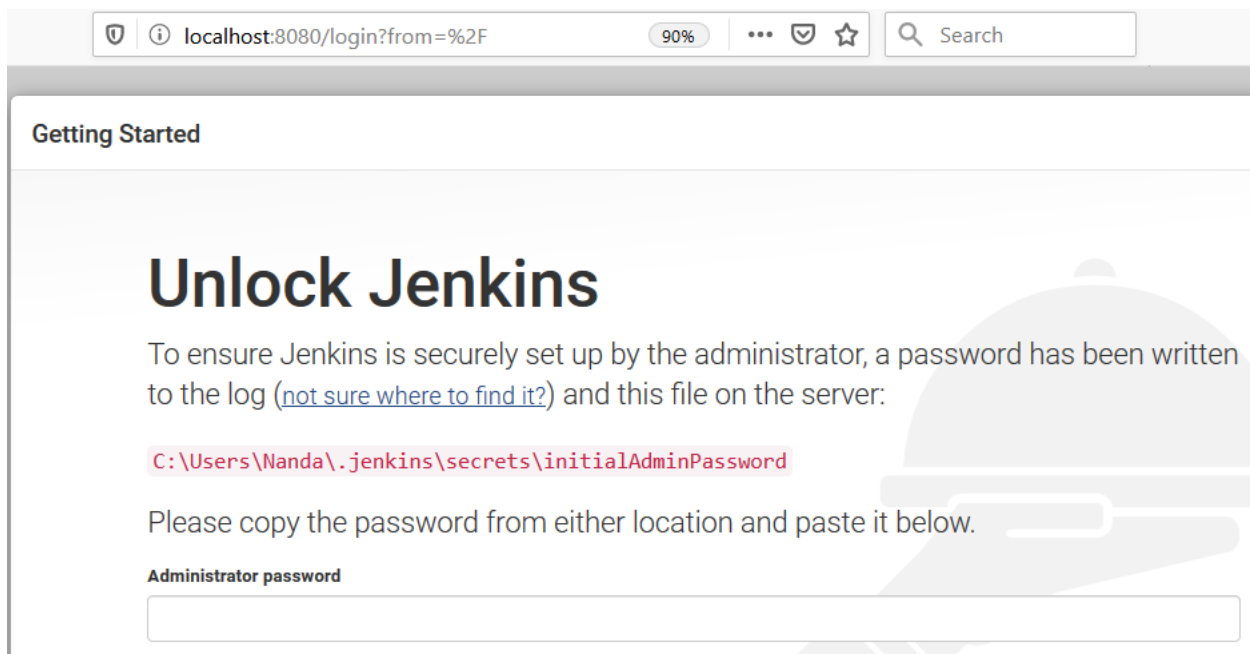
da540d7d066249b19b39d52866ac5477

This may also be found at: C:\Users\Nanda\.jenkins\secrets\initialAdminPassword

*****
*****
*****

2019-11-05 13:24:48.780+0000 [id=47] INFO hudson.model.UpdateSite#updateData: Obtained the latest
update center data file for UpdateSource default
2019-11-05 13:24:49.687+0000 [id=47] INFO h.m.DownloadService$Downloadable#load: Obtained the u
dated data file for hudson.tasks.Maven.MavenInstaller
2019-11-05 13:24:49.691+0000 [id=47] INFO hudson.util.Retrier#start: Performed the action check
updates server successfully at the attempt #1
2019-11-05 13:24:49.707+0000 [id=47] INFO hudson.model.AsyncPeriodicWork$1#run: Finished Downlo
d metadata. 7,544 ms
2019-11-05 13:24:49.941+0000 [id=29] INFO hudson.model.UpdateSite#updateData: Obtained the late
st update center data file for UpdateSource default
2019-11-05 13:24:50.397+0000 [id=29] INFO jenkins.InitReactorRunner$1#onAttained: Completed ini
tialization
2019-11-05 13:24:50.457+0000 [id=21] INFO hudson.WebAppMain$3#run: Jenkins is fully up and runn
```

8. Open the browser
9. Visit <http://localhost:8080>



10. Open initialAdminPassword file in the above path
11. Paste it in the textfield & **Continue**
12. Click on **Install Suggested plugins**

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

13. Jenkins will install all the default plugins and prepares environment. Make sure each plugin turns to green color

Getting Started

✓ Timestamper	✓ Credentials Binding Plugin	✓ Email Extension	✓ Build Timeout	** Pipeline: Declarative
✓ Pipeline	✓ Pipeline: Stage View Plugin	✓ Ant Plugin	✓ GitHub Branch Source	** Lockable Resources
✓ SSH Slaves	✓ Pipeline: GitHub Groovy Libraries	✓ Matrix Authorization Strategy	✓ Mailer Plugin	Pipeline
✓ OWASP Markup Formatter Plugin	✓ Gradle Plugin	✓ PAM Authentication	✓ Git	Pipeline: Stage View
✓ Workspace Cleanup Plugin	✓ Subversion	✓ LDAP	✓ Folders Plugin	** GitHub API
				Git
				** GitHub
				GitHub Branch Source
				SSH Slaves
				Pipeline: GitHub Groovy Libraries
				Matrix Authorization Strategy
				Mailer
				PAM Authentication
				Git
				** MapDB API
				Subversion
				LDAP
				** - required dependency

14. Click on Continue as Admin

Getting Started

Create First Admin User

Username:

Password:

Confirm password:

Full name:

E-mail address:

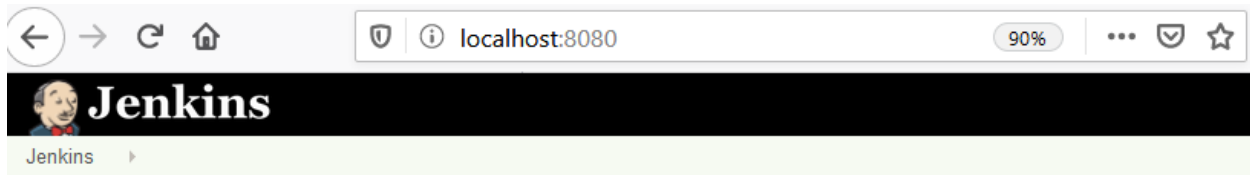
Jenkins 2.190.2

[Continue as admin](#)

[Save and Continue](#)

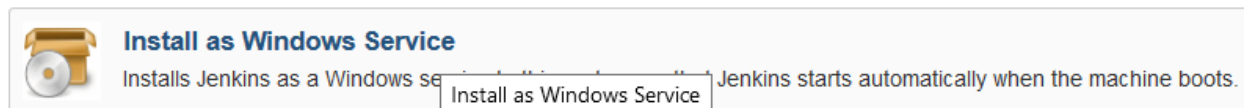
15. Next screen – **Save and Finish**

16. Next screen – **Start using Jenkins**

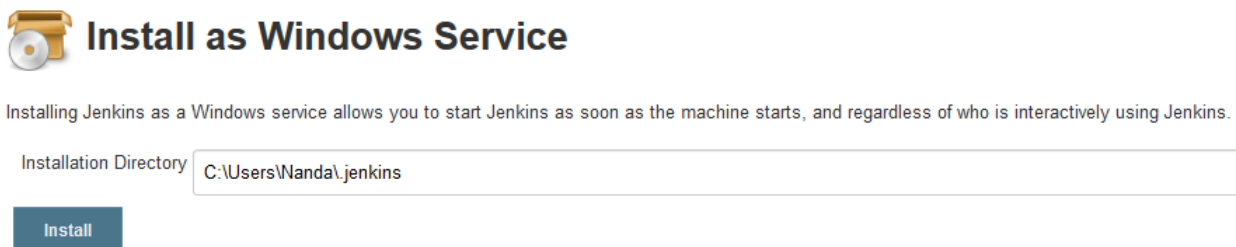


Jenkins as a Windows Service

17. Click on **Manage Jenkins** on left Panel



18. Click on **Install** for the default path shown



19. OOPS! 😞 There may be an error as shown below on permissions:

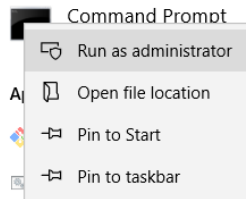
Error

```
Installing a service
[.jenkins] $ C:\Users\Nanda\.jenkins\jenkins.exe install
2019-11-05 09:49:21,865 INFO - Installing the service with id 'jenkins'
2019-11-05 09:49:21,973 FATAL - WMI Operation failure: AccessDenied
WMI.WmiException: AccessDenied
    at WMI.WmiRoot.BaseHandler.CheckError(ManagementBaseObject result)
    at WMI.WmiRoot.ClassHandler.Invoke(Object proxy, MethodInfo method, Object[] args)
    at WMI.Win32ServicesProxy.Create(String , String , String , ServiceType , ErrorControl , StartMode , Boolean , Stri
, String , String[] )
    at winsw.WrapperService.Run(String[] _args, ServiceDescriptor descriptor)
    at winsw.WrapperService.Main(String[] args)
WMI.WmiException: AccessDenied
    at WMI.WmiRoot.BaseHandler.CheckError(ManagementBaseObject result)
    at WMI.WmiRoot.ClassHandler.Invoke(Object proxy, MethodInfo method, Object[] args)
    at WMI.Win32ServicesProxy.Create(String , String , String , ServiceType , ErrorControl , StartMode , Boolean , Stri
, String , String[] )
    at winsw.WrapperService.Run(String[] _args, ServiceDescriptor descriptor)
    at winsw.WrapperService.Main(String[] args)
```

20. Kill the running Jenkins in CMD prompt by Ctrl + C

21. Open CMD as Administrator as shown below

Best match



■ Start Command Prompt with Ruby

■ Node.js command prompt

Search the web

🔍 cmd - See web results >

🔍 cmd

22. Start Jenkins with JAVA command as shown below (the same earlier command)

```
C:\WINDOWS\system32>cd\

C:\>java -jar jenkins.war
Running from: C:\jenkins.war
webroot: $user.home/.jenkins
2019-11-05 14:54:37.768+0000 [id=1] INFO org.eclipse.jetty.util.log.Log#initialized: Logging initialized @722ms t
o org.eclipse.jetty.util.log.JavaUtilLog
2019-11-05 14:54:37.891+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2019-11-05 14:54:37.922+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2019-11-05 14:54:37.998+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-9.4.z-SNAPSHOT; built: 20
19-05-02T00:04:53.875Z; git: e1bc35120a6617ee3df052294e433f3a25ce7097; jvm 1.8.0_101-b13
2019-11-05 14:54:38.713+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /,
did not find org.eclipse.jetty.jsp.JettyJspServlet
2019-11-05 14:54:38.780+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager worke
rName=node0
2019-11-05 14:54:38.782+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: No SessionScavenger set, usin
g defaults
2019-11-05 14:54:38.785+0000 [id=1] INFO o.e.j.server.session.HouseKeeper#startScavenging: node0 Scavenging every
600000ms
Jenkins home directory: C:\Users\Nanda\.jenkins found at: $user.home/.jenkins
2019-11-05 14:54:39.374+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w.@36804139{Jenkins v2.1
90.2,,file:///C:/Users/Nanda/.jenkins/war/,AVAILABLE}{C:\Users\Nanda\.jenkins\war}
```

23. Visit <http://localhost:8080>

24. Login as admin/<temp-password> in C:\Users\Nanda\.jenkins\secrets \initialAdminPassword

25. Click on **Manage Jenkins**

26. Click on **Install as Windows Service**

27. It will install a Windows service and gives confirmation as shown below:



Installation is successfully completed. Do you want to stop this Jenkins and start a newly installed Windows service?

Yes

28. Click on **Yes**

29. It takes a while to RESTART

Please wait while Jenkins is restarting...

You should be taken automatically to the new Jenkins in a few seconds. If for some reason the service fails to start, please check the Windows event log for errors and consult the wiki page located at the [official wiki](#).

30. It may display an error page at this time but you can see the confirmation about Windows SERVICE START from the CMD prompts as shown below:

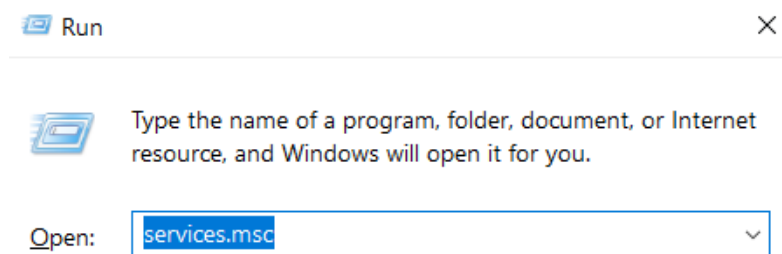
```
2019-11-05 14:59:28.212+0000 [id=79] INFO jenkins.model.Jenkins#_cleanUpPersistQueue: Persisting build queue
2019-11-05 14:59:28.297+0000 [id=79] INFO jenkins.model.Jenkins#_cleanUpAwaitDisconnects: Waiting for node disconn
ection completion
2019-11-05 14:59:28.298+0000 [id=79] INFO jenkins.model.Jenkins#cleanUp: Jenkins stopped
2019-11-05 14:59:28.303+0000 [id=80] INFO h.l.WindowsInstallerLink$1$1#run: Starting a Windows service
2019-11-05 14:59:28.303+0000 [id=23] INFO winstone.Logger#logInternal: JVM is terminating. Shutting down Jetty
[.jenkins] $ C:\Users\Nanda\.jenkins\jenkins.exe start
2019-11-05 09:59:28,960 INFO - Starting the service with id 'jenkins'
Successfully started
C:\>
```

31. Visit <http://localhost:8080>

32. Login as admin

33. You can also check if Jenkins is listed in services as shown below:

Press Windows icon + R



34. Service listing

IP Translation Configura...	Configures ...		Manual (Trig...
IPsec Policy Agent	Internet Pr...	Running	Manual (Trig...
jenkins	This service ...	Running	Automatic
KtmRm for Distributed ...	Coordinate...		Manual (Trig...

35. Congratulations! You have Jenkins as a Windows Service Now! 😊

