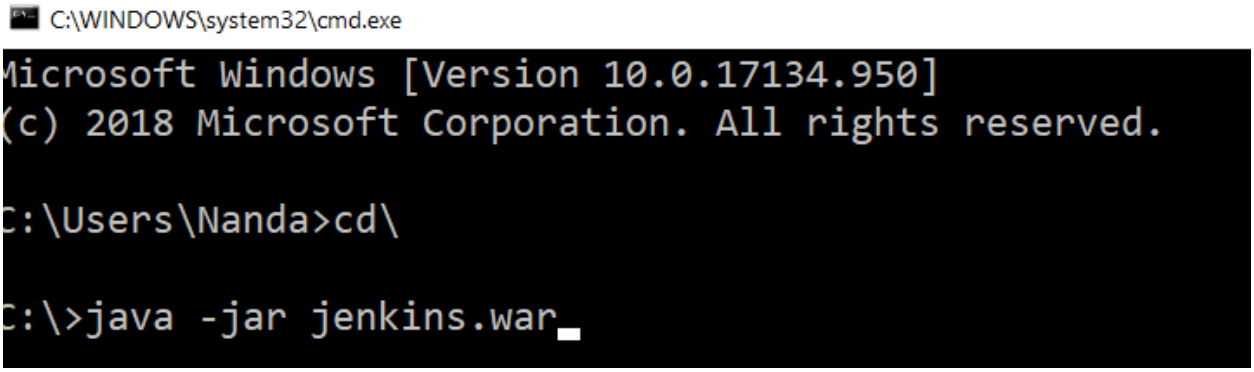
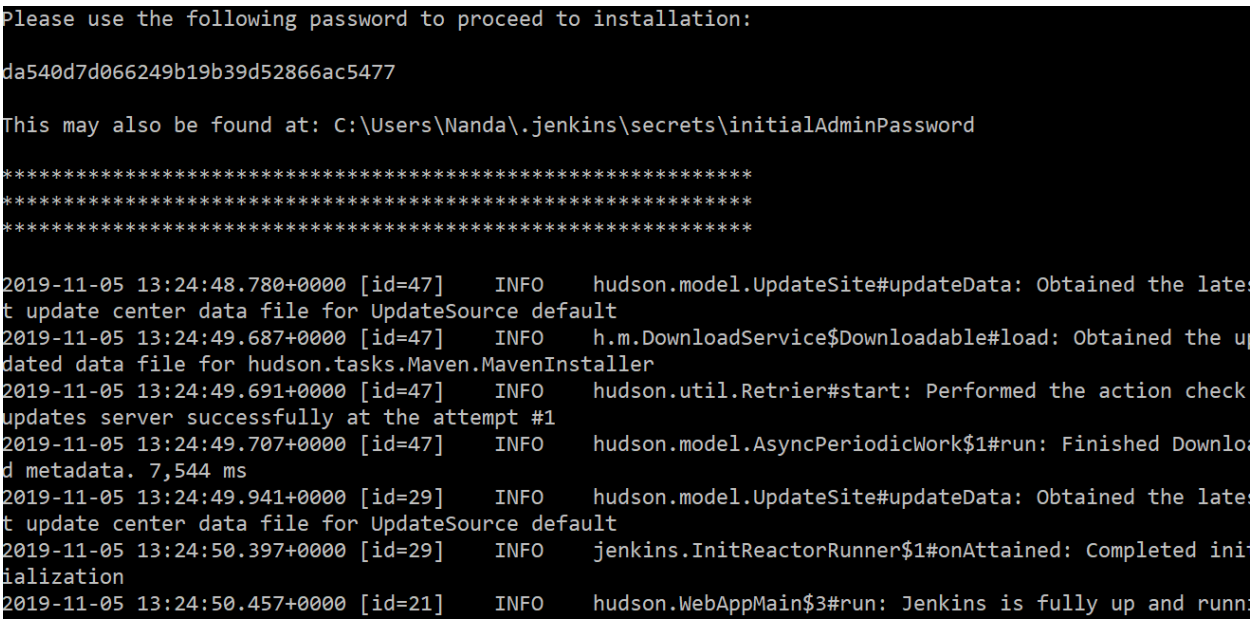
Install Jenkins on Windows

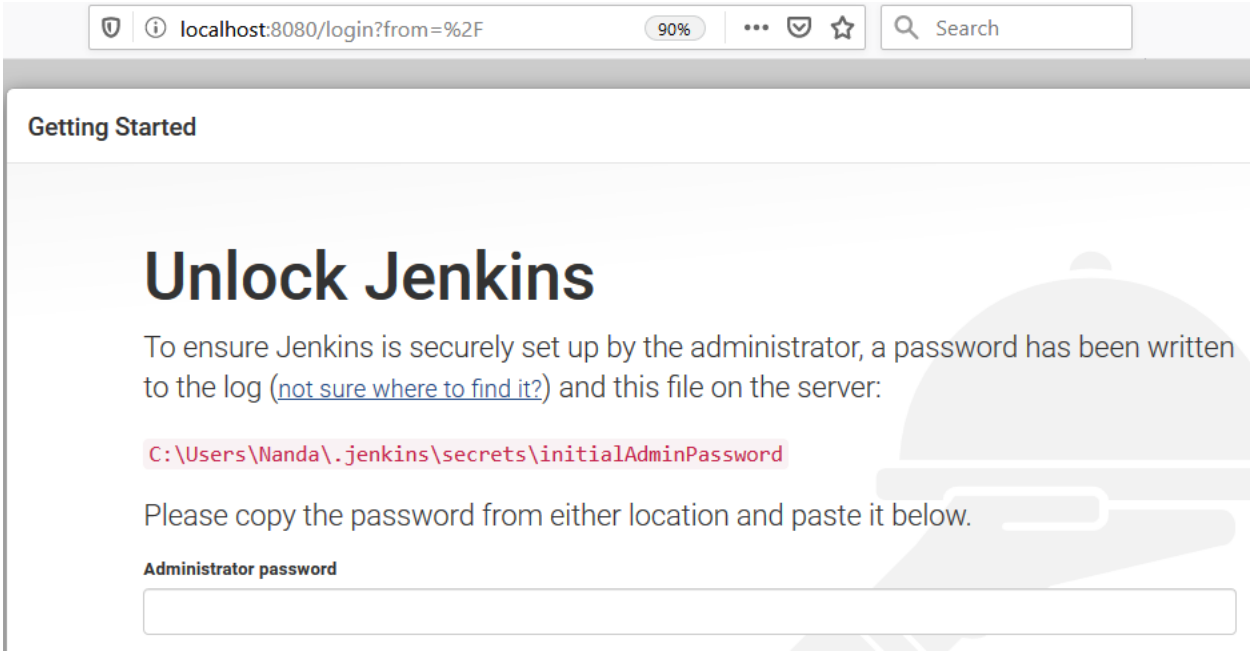
1. Visit https://jenkins.io/download/
2. Click on **Generic Java Package (war)** link
3. Download the .war file
4. Copy the war file to your C:\
5. Open CMD prompt
6. Go to C:\ folder and use the java command to run WAR file as shown below



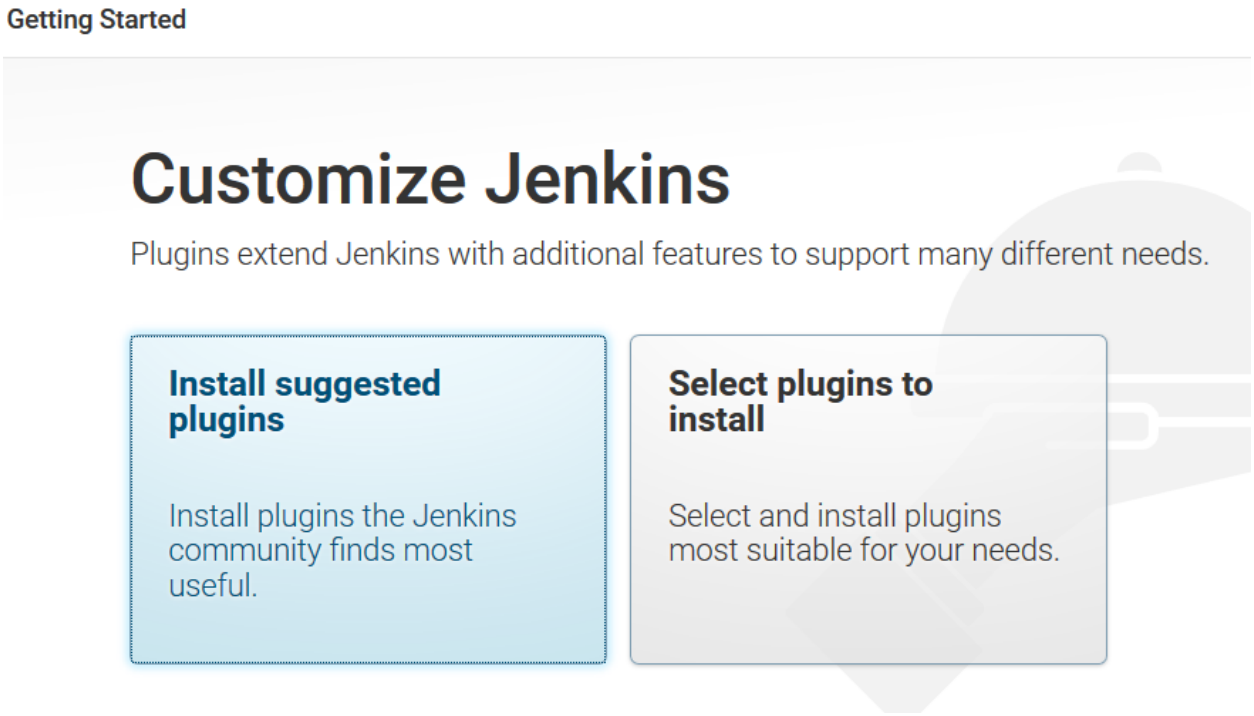
7. Observe the logs for a temporary password as shown below



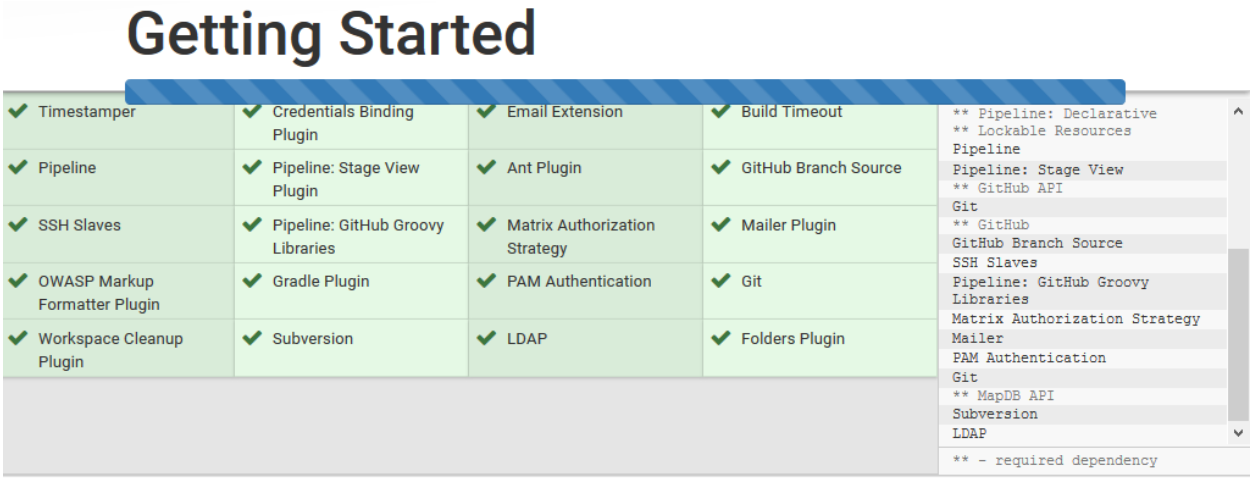
8. Open the browser
9. Visit http://localhost:8080



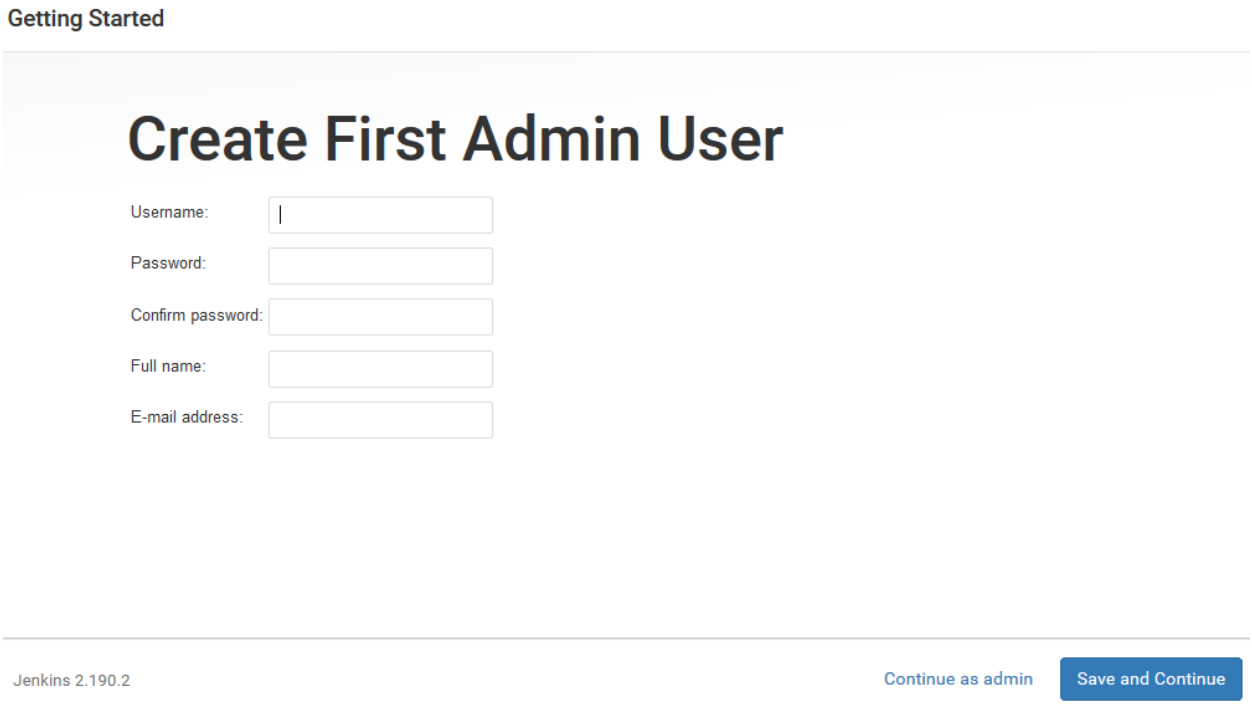
10. Open initialAdminPassword file in the above path
11. Paste it in the textfield & **Continue**
12. Click on **Install Suggested plugins**



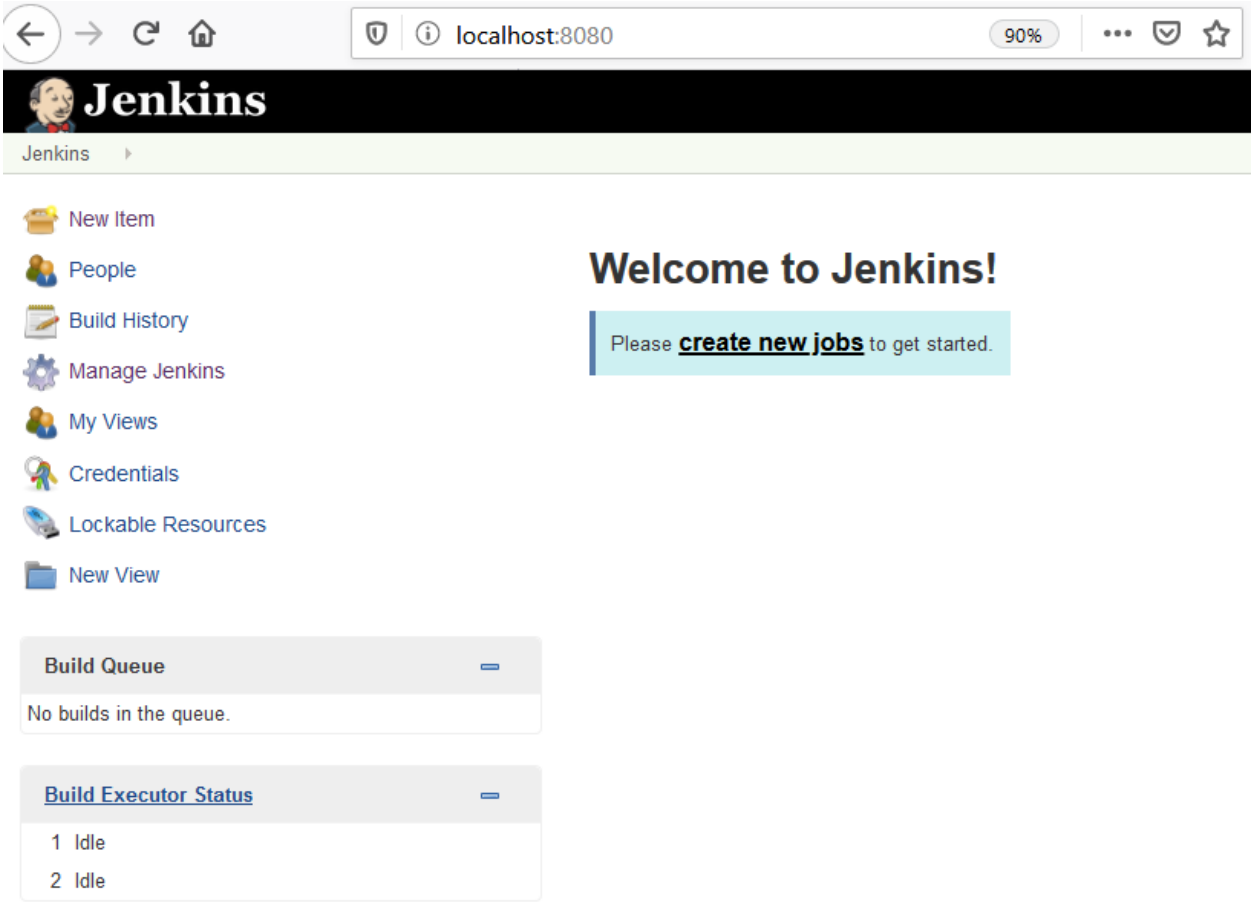
13. Jenkins will install all the default plugins and prepares environment. Make sure each plugin turns to green color



14. Click on Continue as Admin

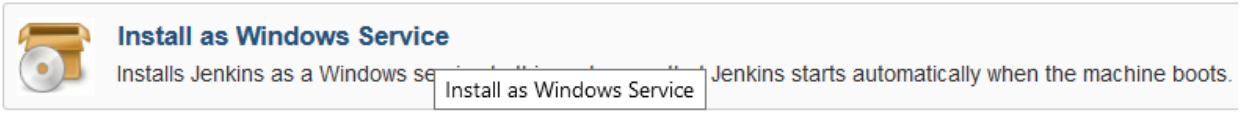


15. Next screen – **Save and Finish**
16. Next screen – **Start using Jenkins**



Jenkins as a Windows Service

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



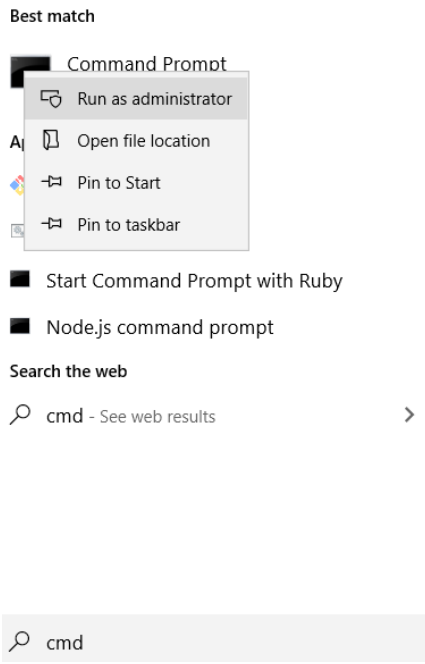
18. Click on **Install** for the default path shown

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

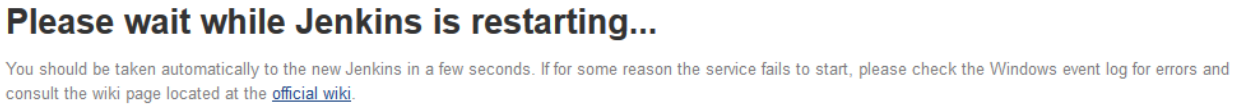


22. Start Jenkins with JAVA command as shown below (the same earlier command)

```
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:

28. Click on **Yes**
29. It takes a while to RESTART

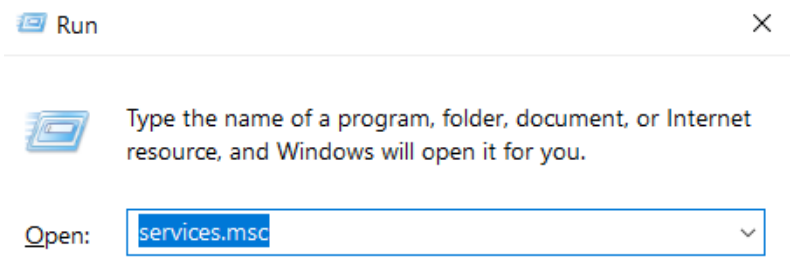


30. It may display an error page at this time but you can see the confirmation about Windows SERVICE START from the CMD prompts as shown below:

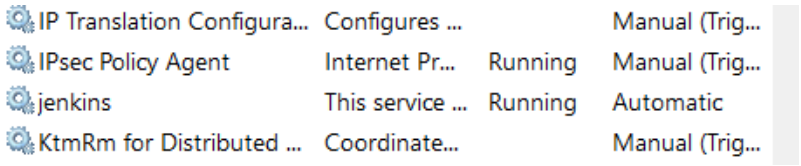
```
2019-11-05 14:59:28.212+0000 [id=79]    INFO    jenkins.model.Jenkins#_cleanUpPersistQueue: Persisting build queue
2019-11-05 14:59:28.297+0000 [id=79]    INFO    jenkins.model.Jenkins#_cleanUpAwaitDisconnects: Waiting for node disconn
ection completion
2019-11-05 14:59:28.298+0000 [id=79]    INFO    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



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