

# Installing SSC 21.1.1 with MSSQL 2019 in Easy Steps on Windows 2019 Server

**Fortify SCA 21.x**

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## Introduction

This document will guide Pre-Sales and Partners to install SSC 21.1.1 in MS Windows 2019 Server (Desktop Experience) with MS SQL 2019 Server Edition Database.

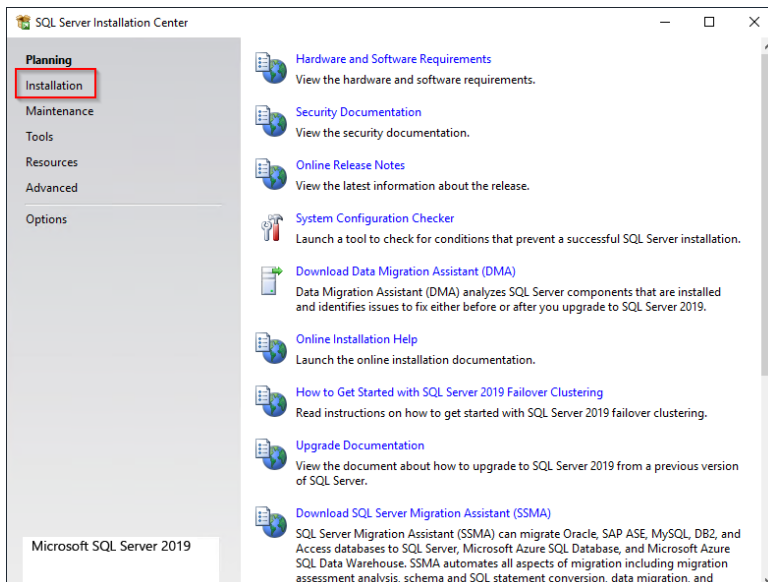
The Hardware and Software requirements are given in the link –

[https://www.microfocus.com/documentation/fortify-webinspect/2110/Fortify\\_Sys\\_Reqs\\_21.1.0/index.htm#SSC/SSC\\_Reqs.htm?TocPath=Fortify%2520Software%2520Security%2520Center%2520Server%2520Requirements%257C\\_0](https://www.microfocus.com/documentation/fortify-webinspect/2110/Fortify_Sys_Reqs_21.1.0/index.htm#SSC/SSC_Reqs.htm?TocPath=Fortify%2520Software%2520Security%2520Center%2520Server%2520Requirements%257C_0)

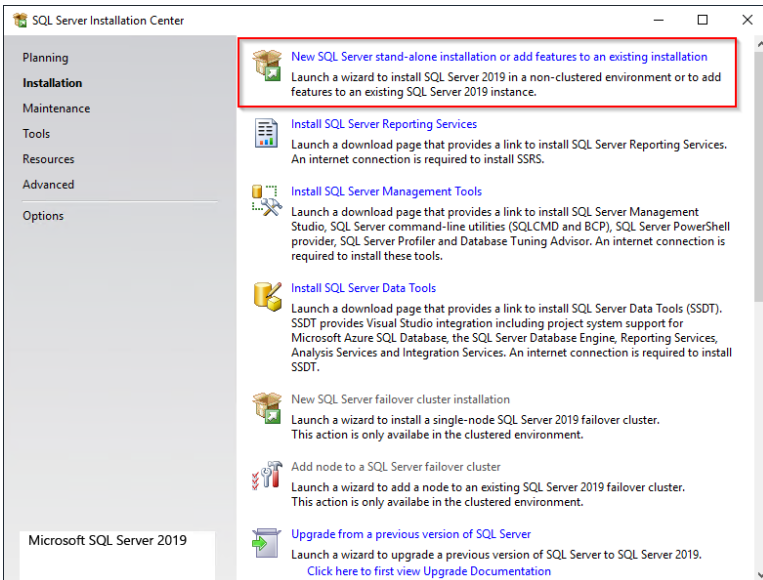
Install Windows 2019 Server (Desktop Experience) and apply all the required patches.  
Turn Off Windows Defender on Domain Network, Private Network & Public Network (Optional).  
Set the Static Network Setting i.e. IP Address, Gateway, Subnet Mask, DNS, hostname etc.

## Installation of MS SQL 2019

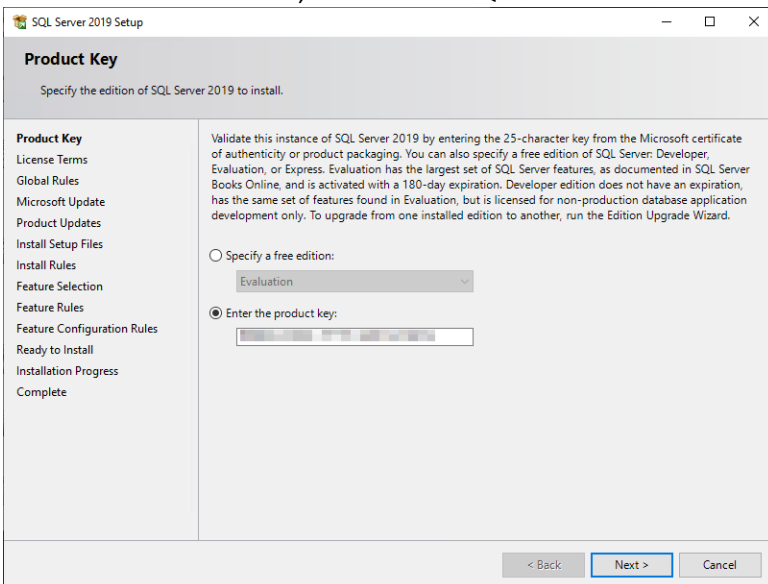
Mount the MS SQL 2019 Server ISO and run the setup.exe.



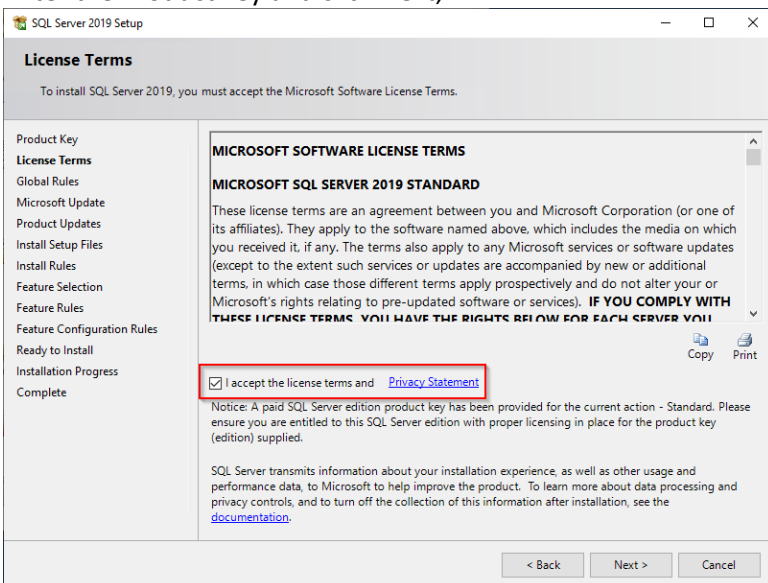
Click on Installation.



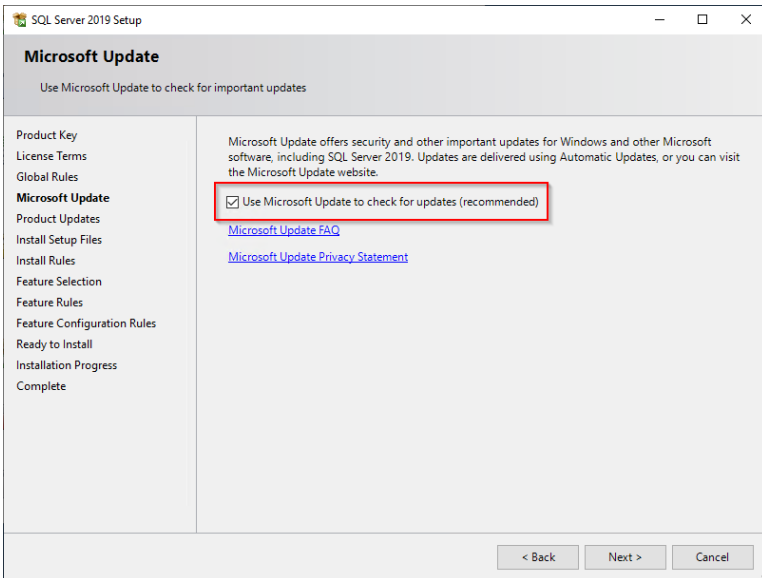
In the Installation screen, select “New SQL Server stand-alone installation or add ....”



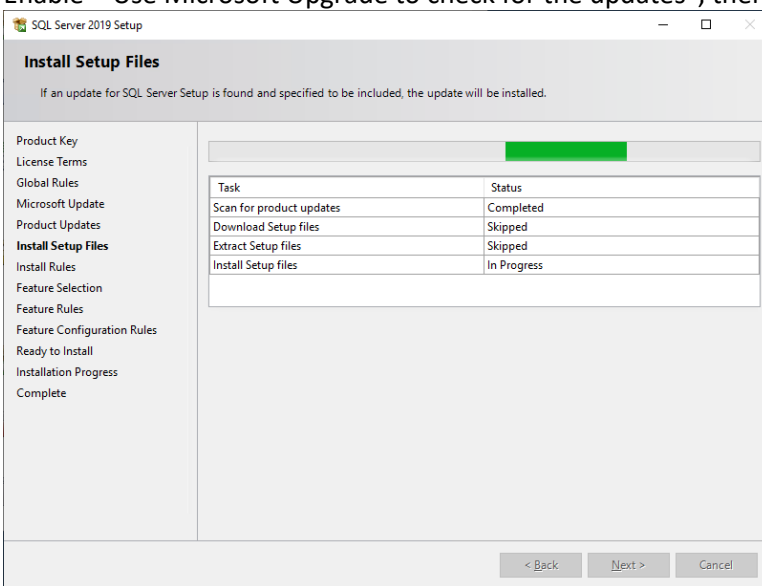
Enter the Product key and click Next,



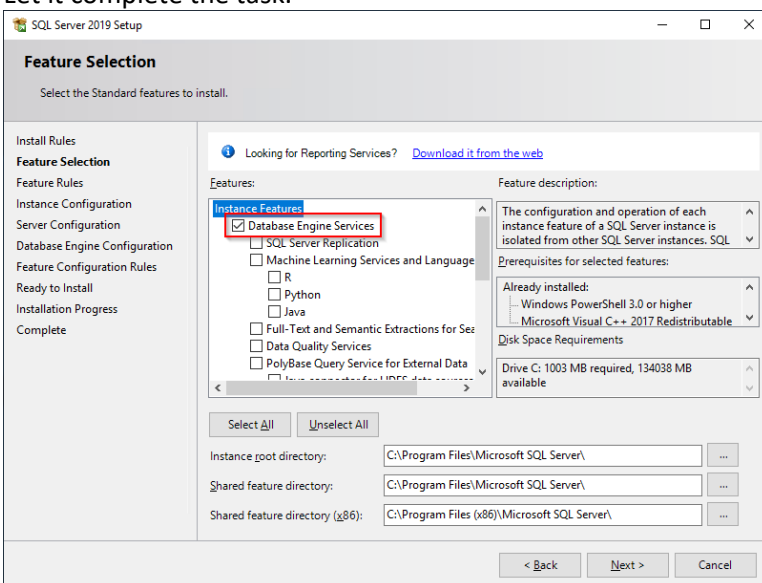
Accept the license agreement, then click Next.

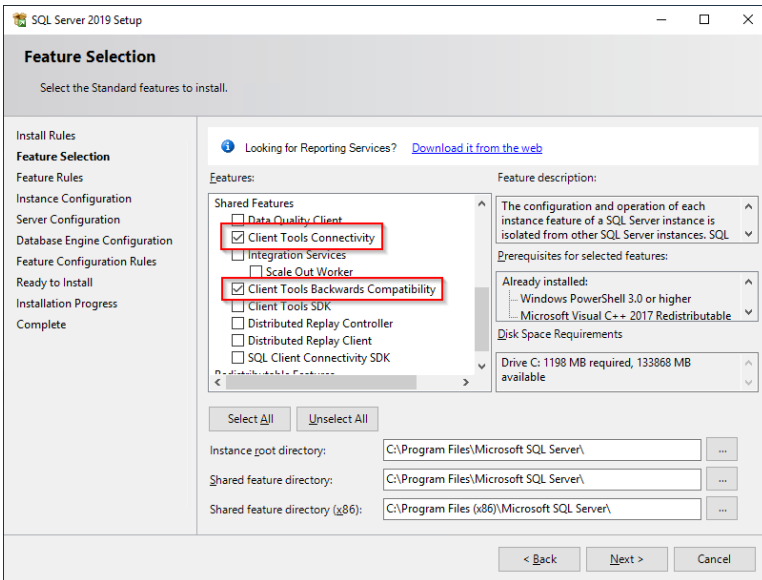


Enable – Use Microsoft Upgrade to check for the updates”, then click Next.



Let it complete the task.

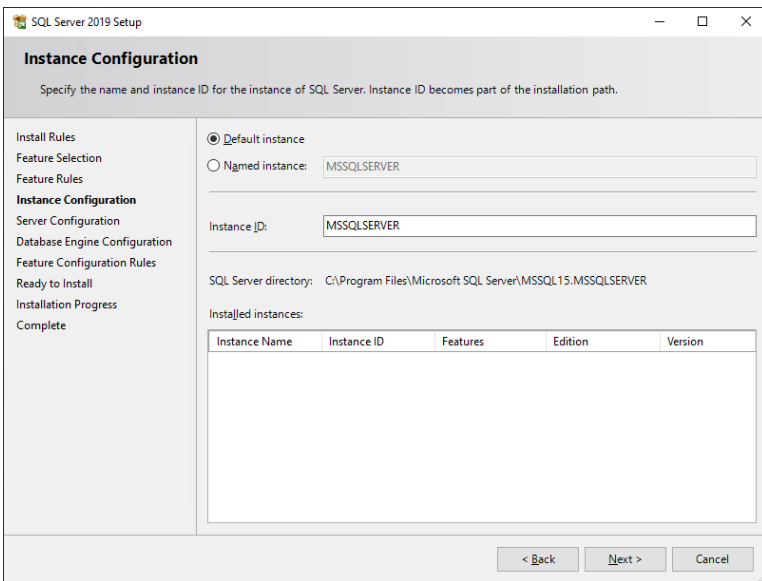




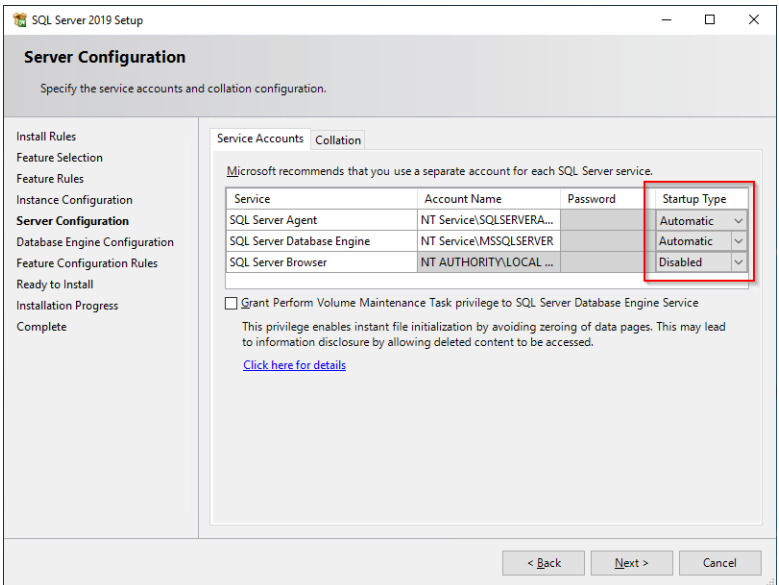
Enable the following features –

- Database Engine Service
- Client Tools Connectivity
- Client Tools Backwards Compatibility

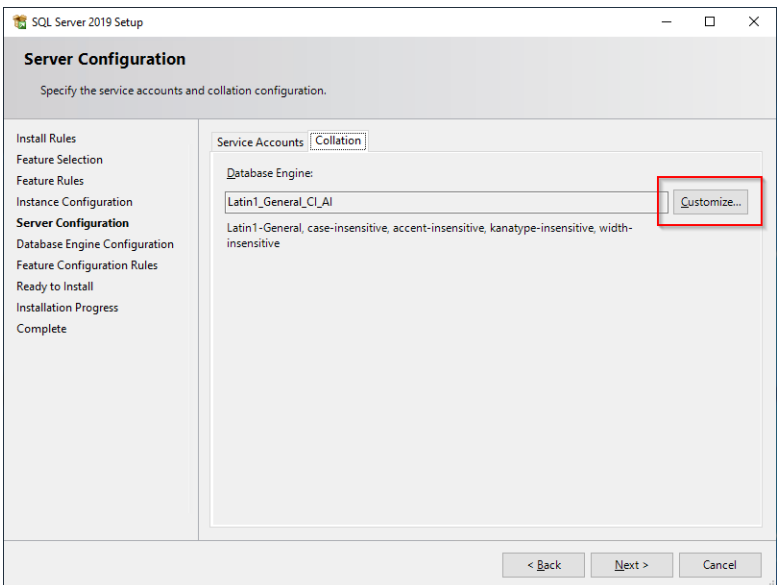
Click Next,



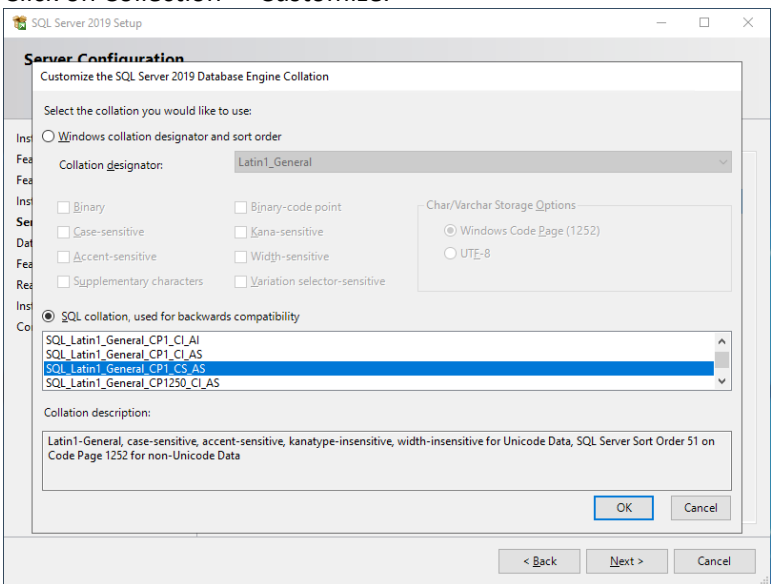
If you want to change the Instance name, then change it else click Next to continue.



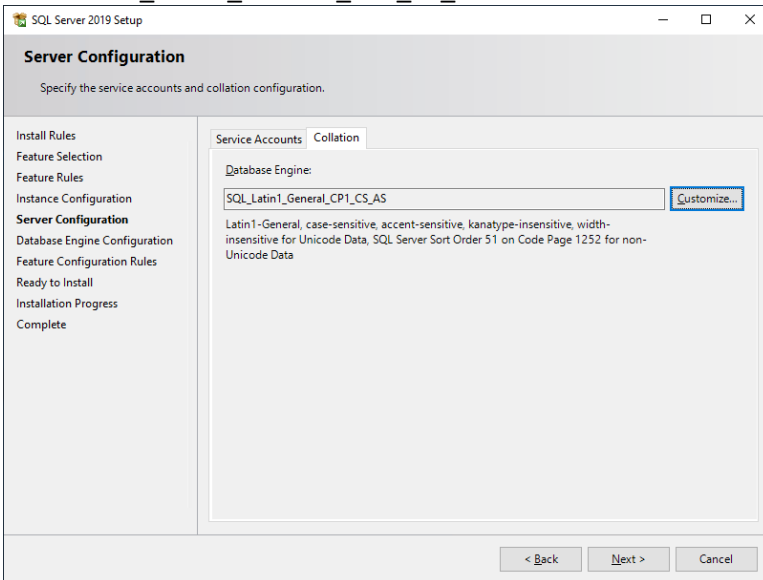
In the server configuration screen, make sure SQL Server Agent, SQL Server Database Engine Startup Type is Automatic.



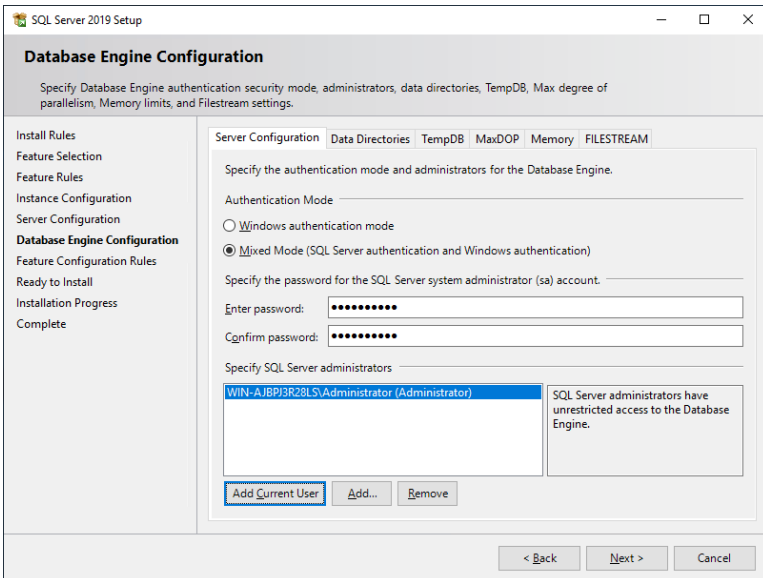
Click on Collection -> Customize.



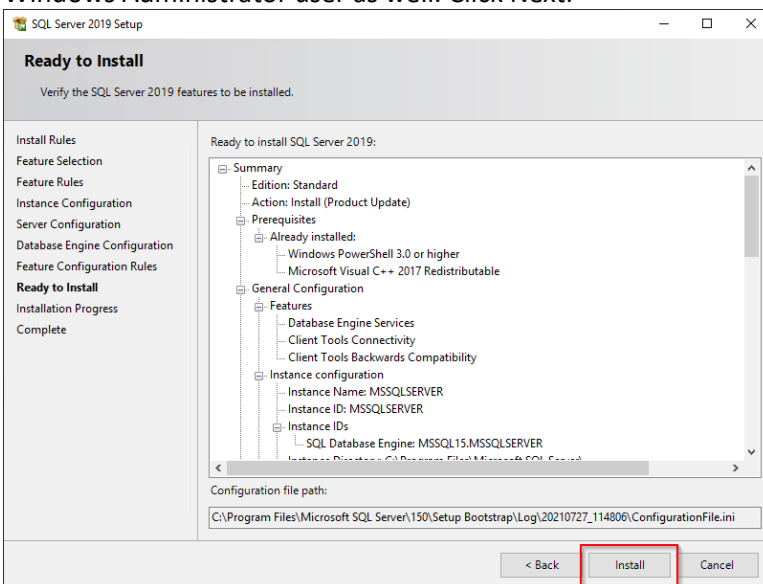
Select "SQL\_Latin1\_General\_CP1\_CS\_AS" click OK.



Click Next.

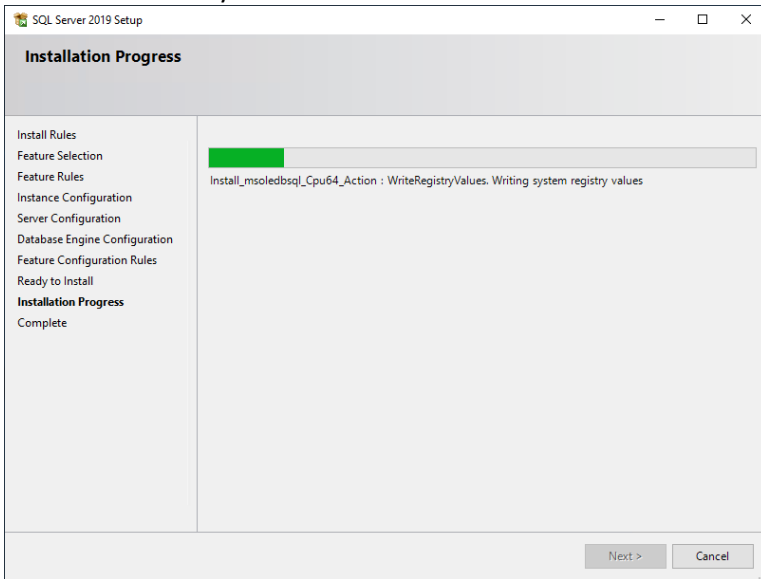


In the Database Engine Configuration, select Mixed Mode, enter the Password of user "sa" and also add the Windows Administrator user as well. Click Next.

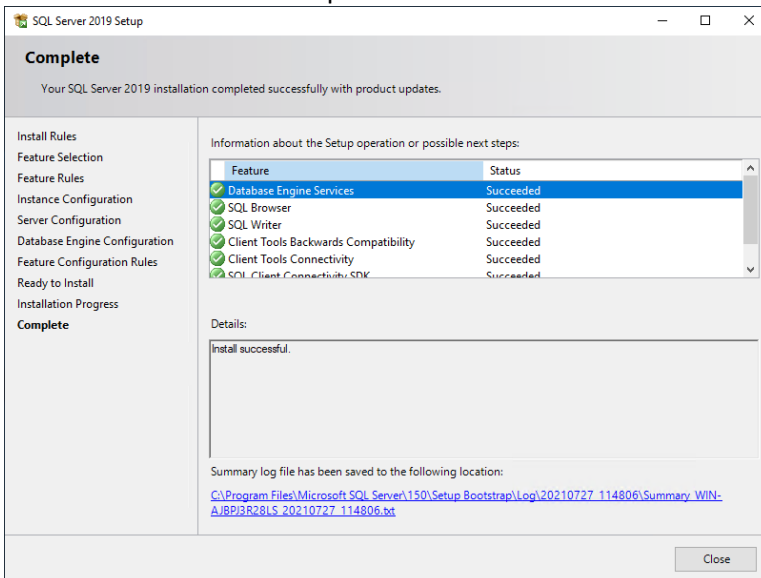




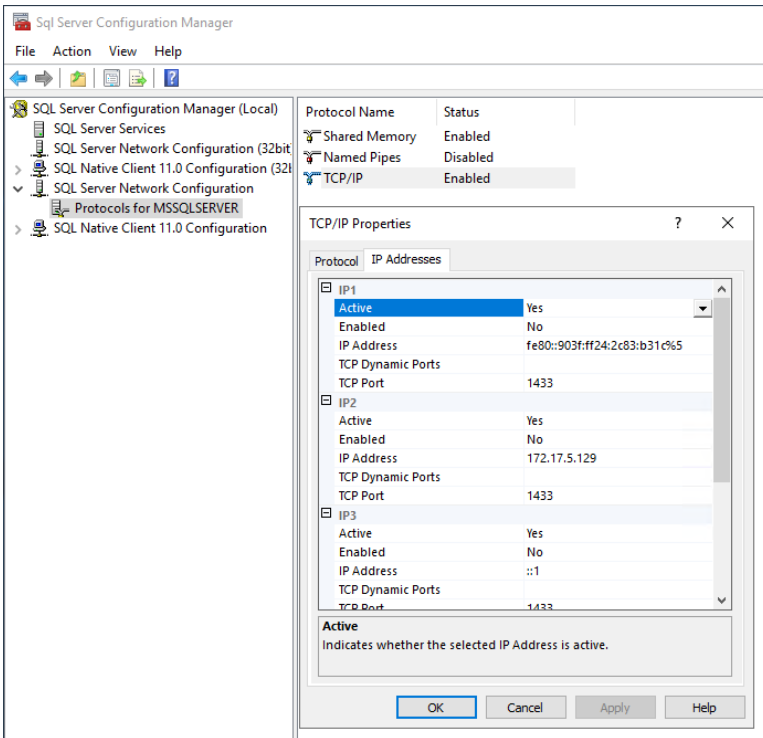
Click Next in Ready to Install screen.



Wait till installation to complete.



Verify all the components as install, then click Close.

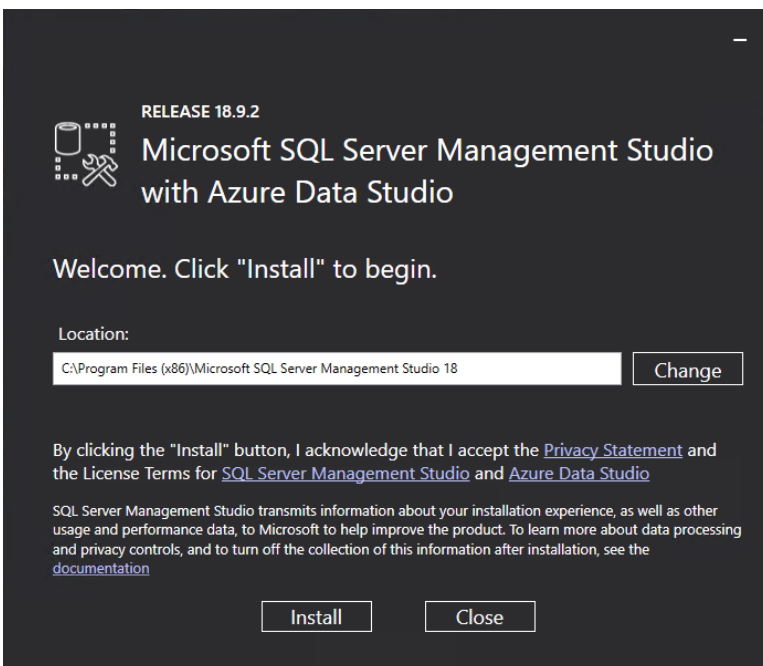


Open SQL Server Configuration Manager and validate the TCP/IP is enabled and it is configured with correct IP Address.

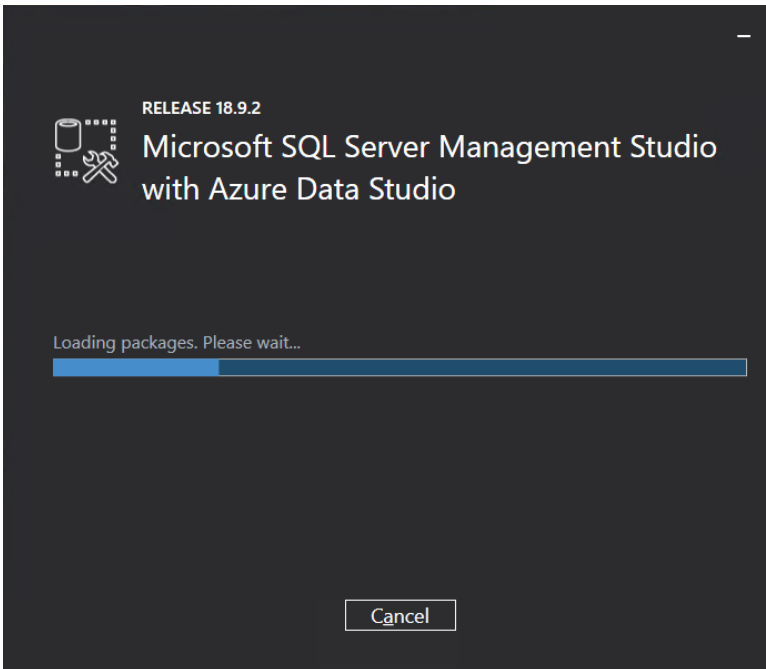
Note down the TCP Port i.e. 1433.

## Installation of SQL Server Management Studio

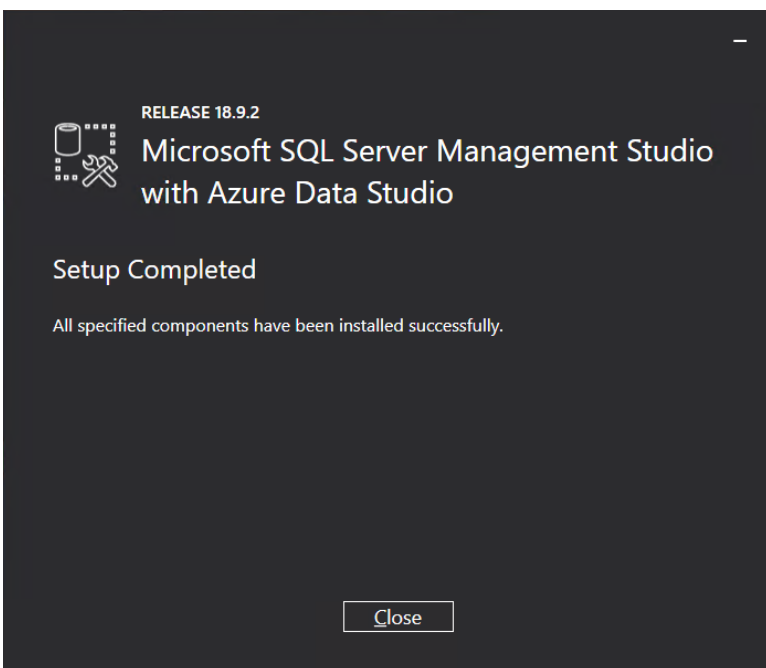
Download SQL Server Management Studio <https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms> and install.



Click Install



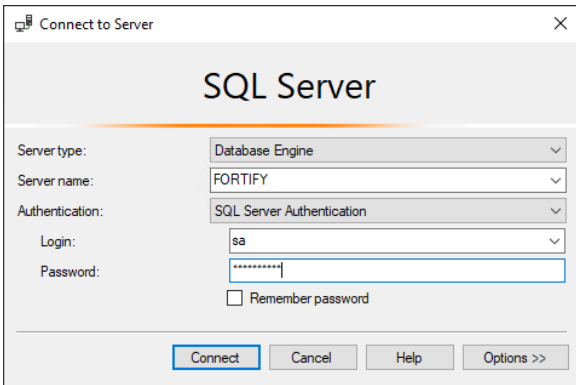
Wait till installation to complete.



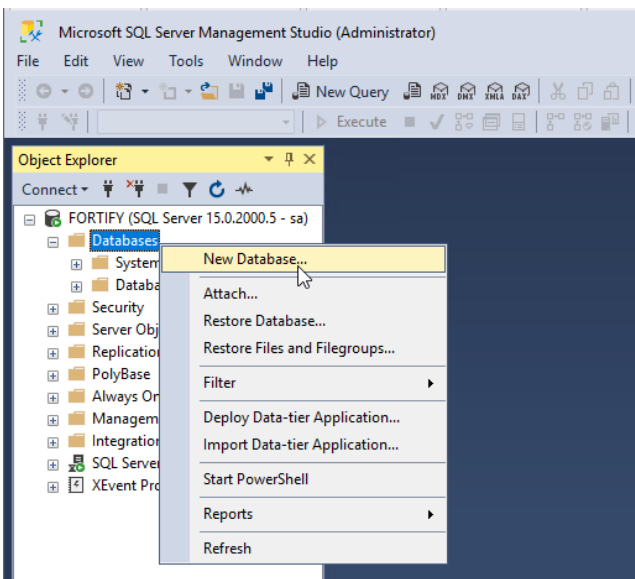
Click Close

## Creating Database for SSC

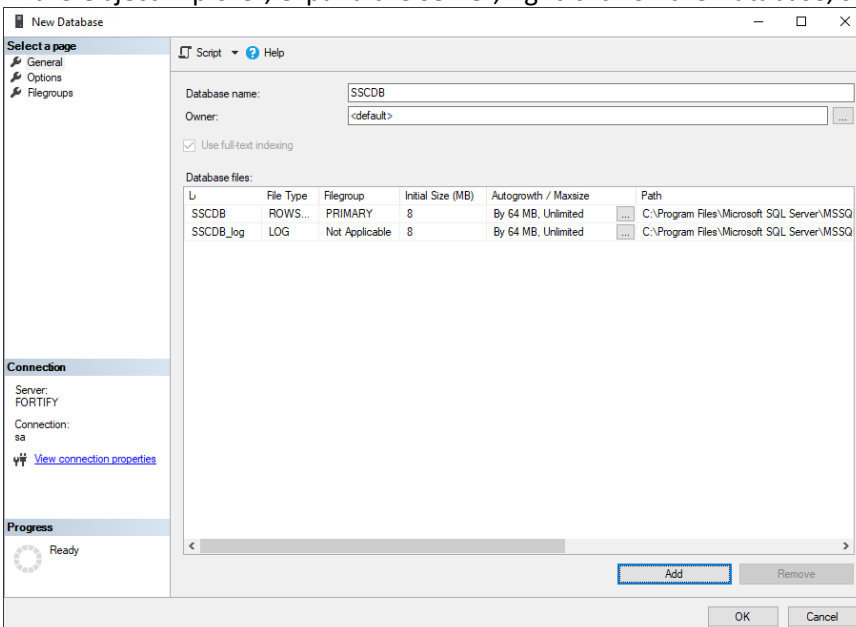
Start MS SQL Server Management Studio.



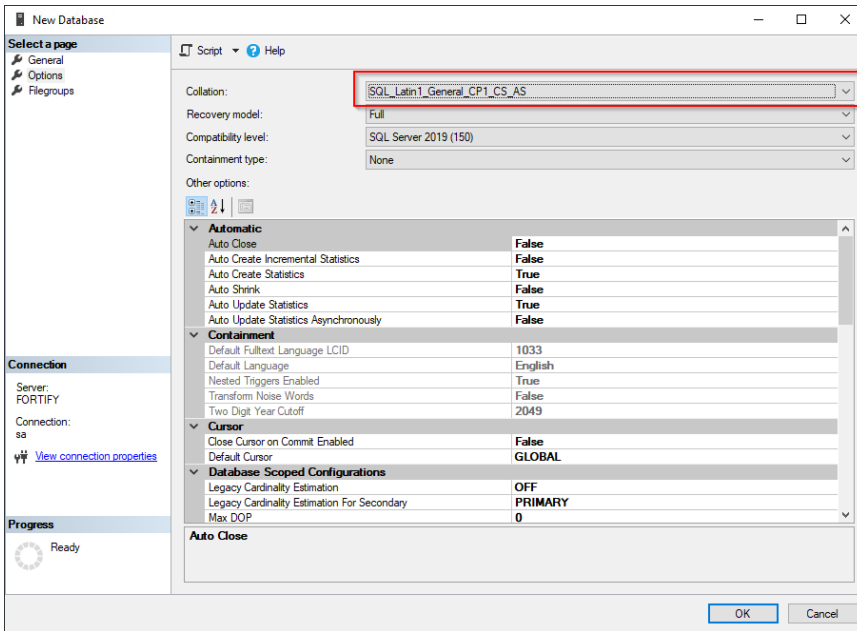
Select Authentication to “SQL Server Authentication”, enter Login name as “sa” and its password, then click Connect.



In the Object Explorer, expand the server, right-click on the Database, select New Database.



Enter the database name as “SSCDB” and change the Path of Database and Log file as “C:\SQLDB” (optional). Click on "Options" in the left panel. In the Collection make sure "SQL\_Latin1\_General\_CP1\_CS\_AS" is selected. This is a mandatory step else Seeds will not be uploaded in upcoming steps. Click Options.



Then Click OK.

Validate the database has been created.

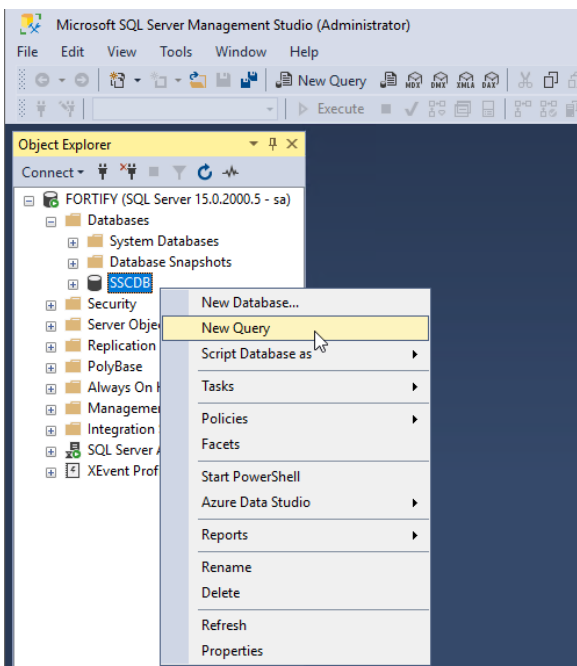
## Creating the Tables for Fortify Components

Extract "Fortify\_21.1.1\_Server\_WAR\_Tomcat.zip" in a temporary folder"

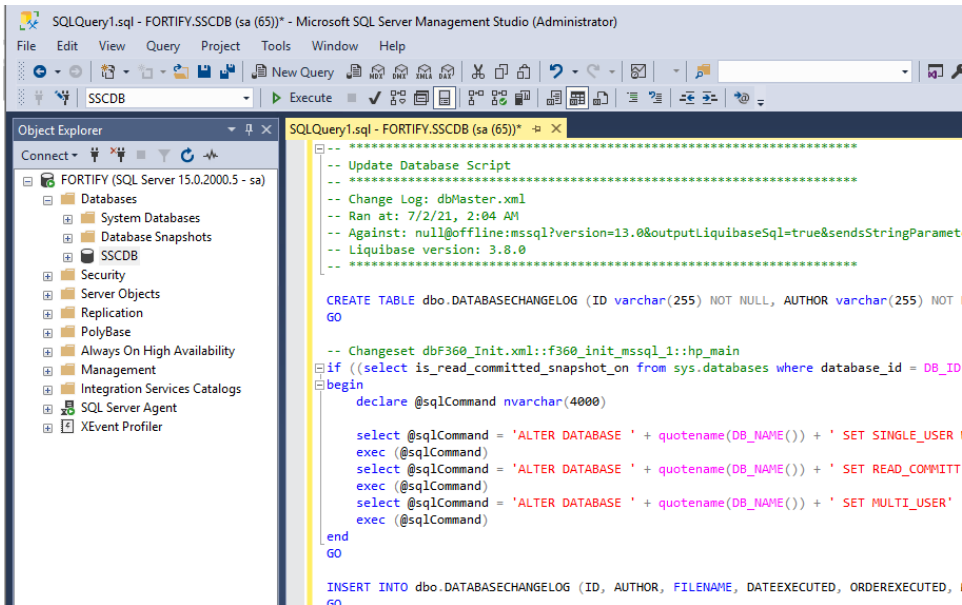
Extract the "create-tables.sql" file from Fortify\_21.1.1\_Server\_WAR\_Tomcat.zip -> sql -> sqlserver.

Open it in notepad++.

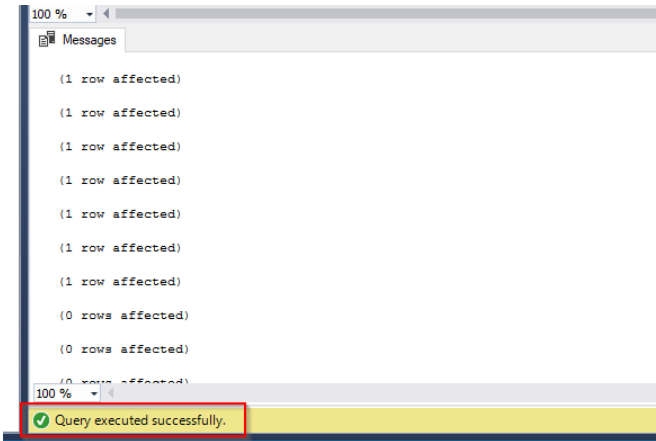
Right Click on "SSCDB" -> New Query.



Paste the content of "create-tables.sql" into the Query.



Click Execute, Verify that the Query executed successfully.

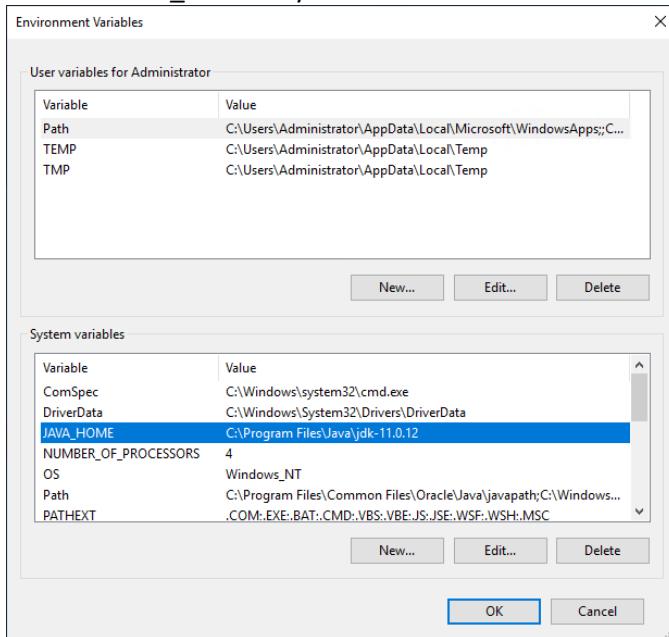


It will create the Database for SSC.  
Close the Management Studio.

## Download and install Oracle JDK 11

Download and install Oracle JDK 11 Windows x64 Installer from <https://www.oracle.com/in/java/technologies/javase-jdk11-downloads.html>

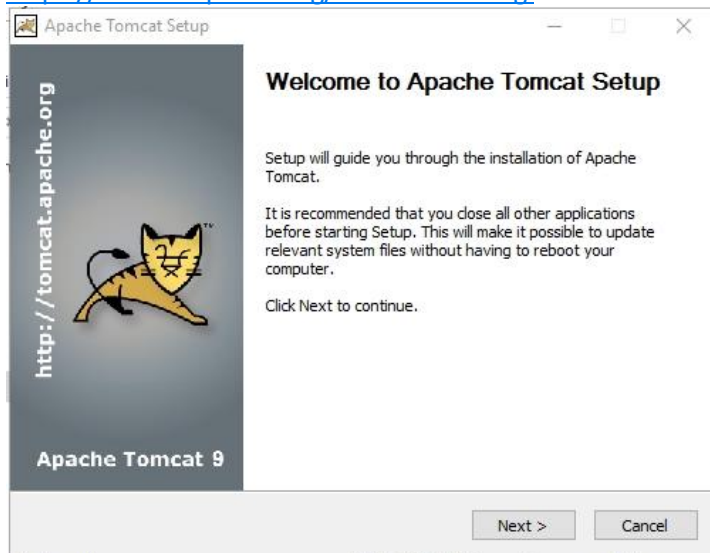
Set the “JAVA\_HOME” System Environment Variables to “C:\Program Files\Java\jdk-11.0.12”



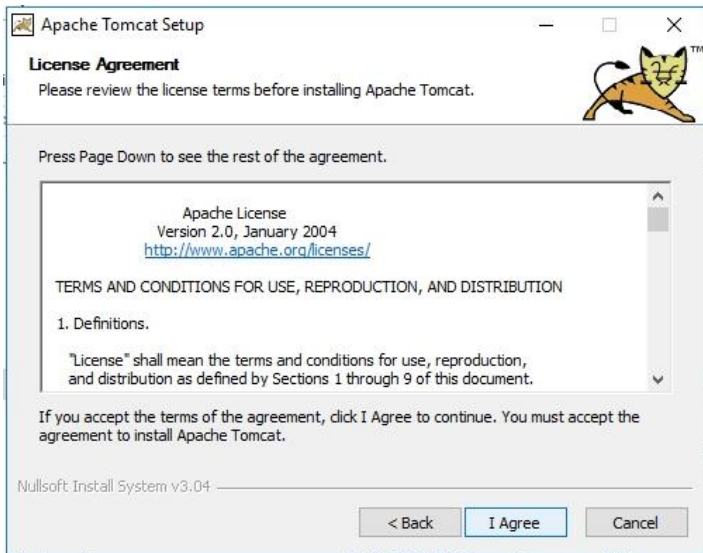
Click OK and reboot the server.

## Download and Install Tomcat 9.0.x service for Windows

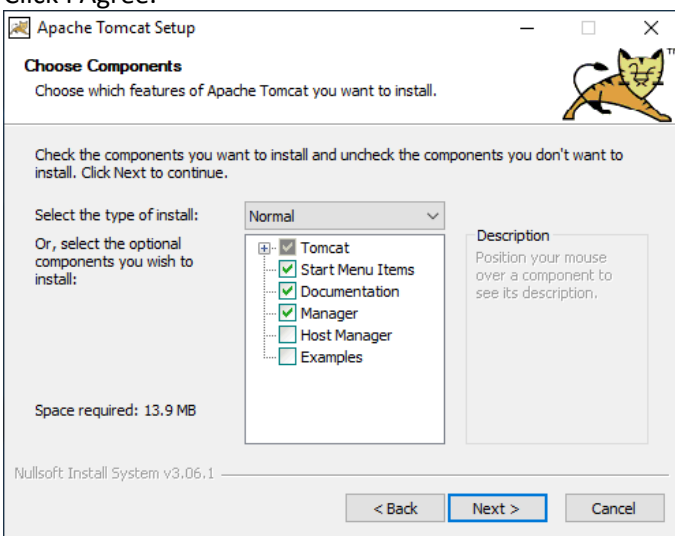
Download and install “32-bit/64-bit Windows Service Installer” of tomcat Windows Service from <https://tomcat.apache.org/download-90.cgi>



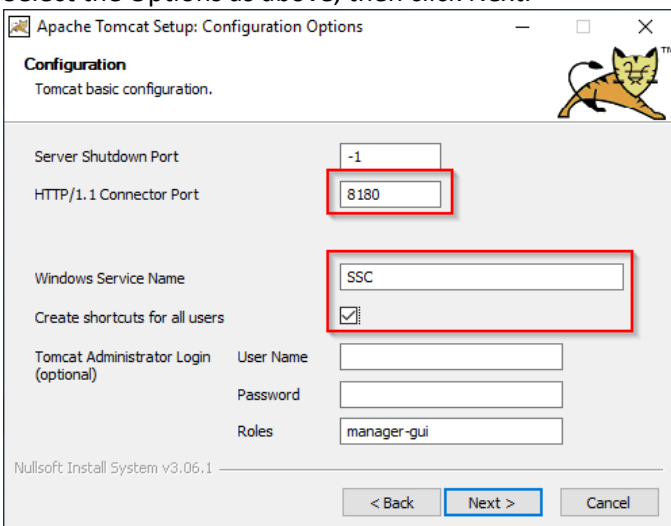
Click Next



Click I Agree.

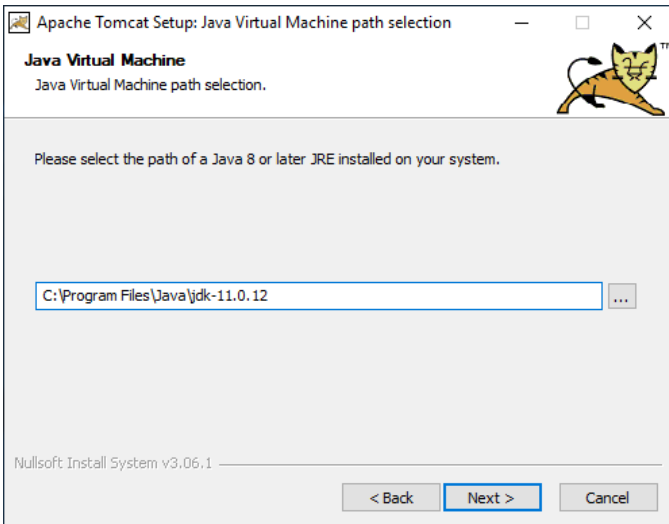


Select the Options as above, then click Next.

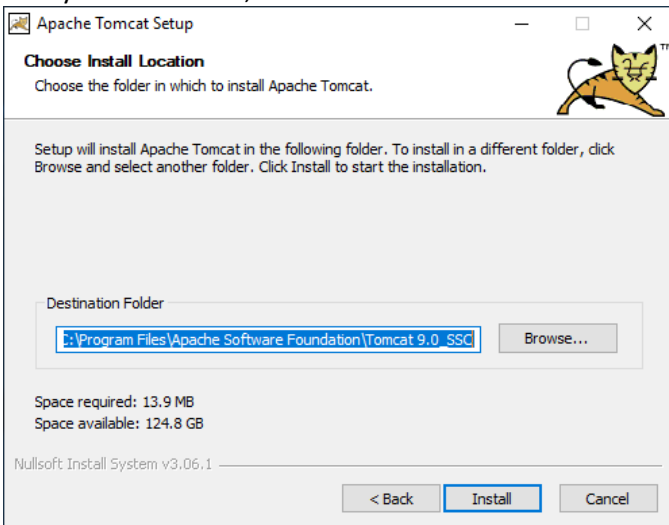


Make the changes as per the above screen, then click Next.



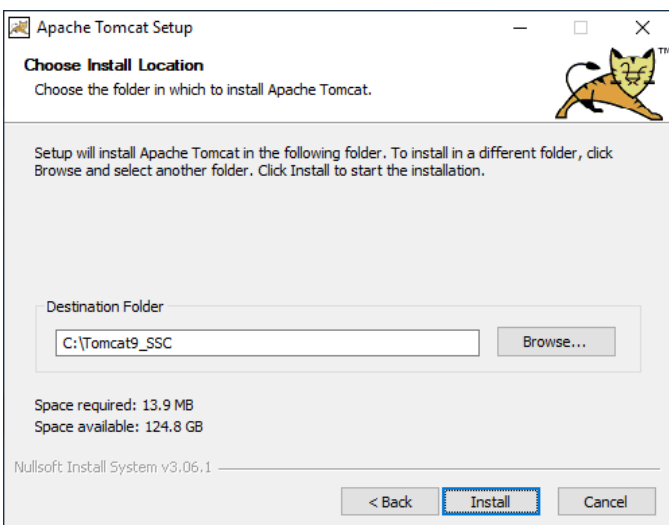


Verify the JRE folder, click Next.

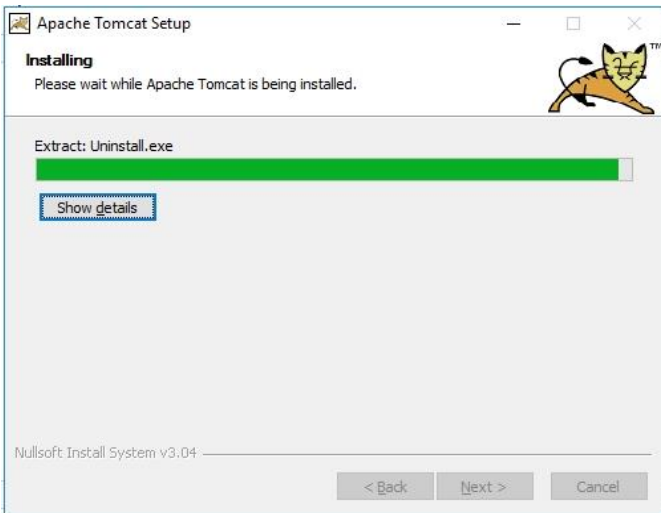


Change the default install location, to "C:\Tomcat9\_SSC"

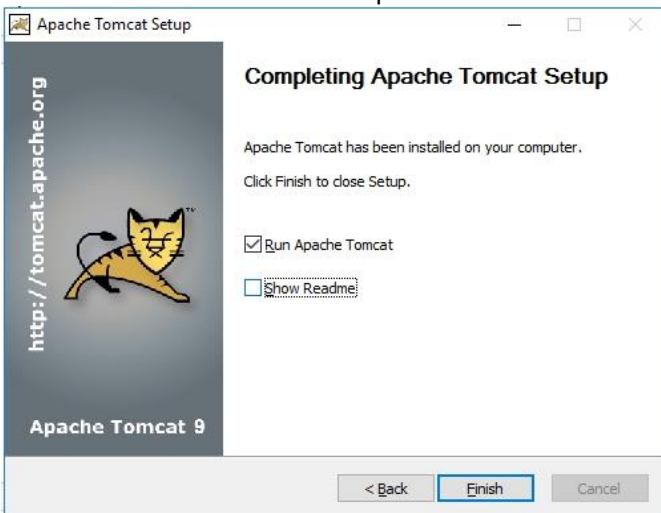
**Note:** This is a very important step, if the Tomcat install folder name has any spaces then SSC will give errors during the Vulnerability auditing.



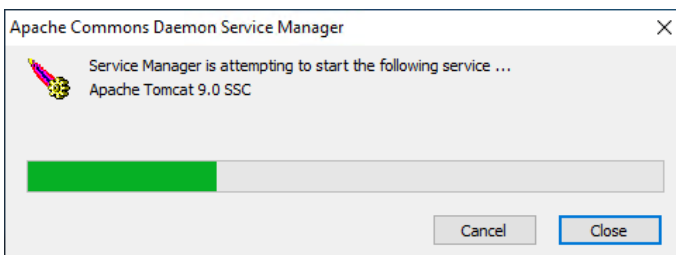
Click Install.



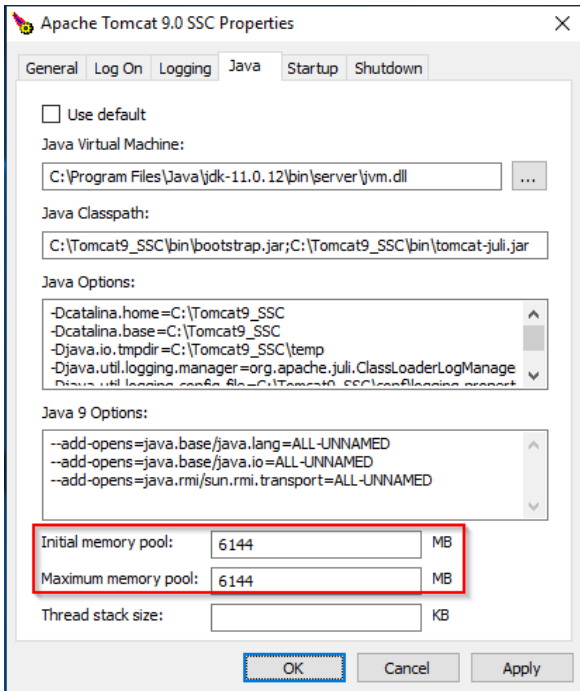
Wait for the installation to complete.



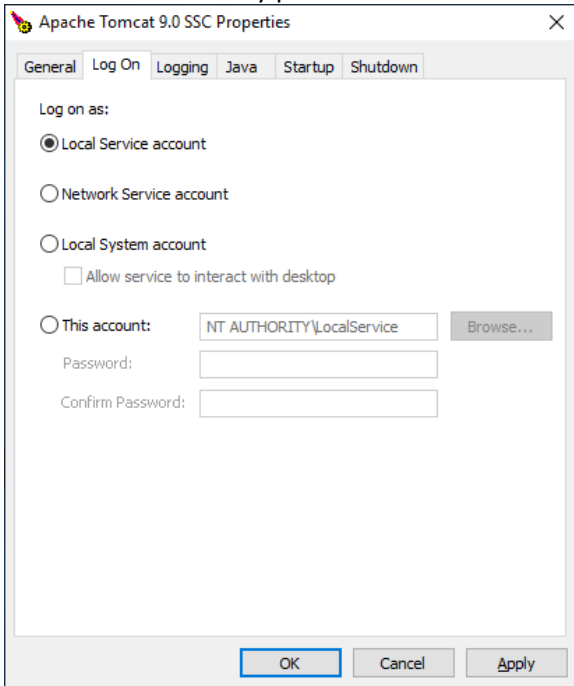
Click Finish.



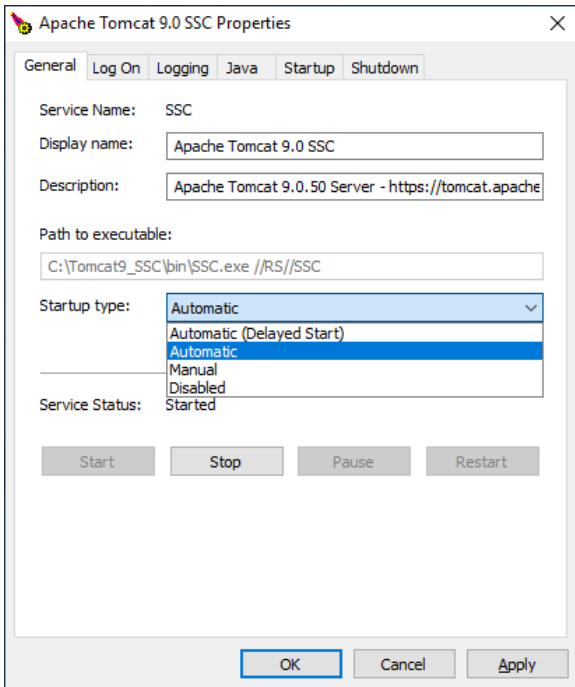
Start the Tomcat service and test the connection. By opening the port 8180 in the browser.



Set the initial memory pool as 6144 and Maximum memory pool 6144 MB.



In Log On, select "Local Service account".



Set the Startup Type as "Automatic", then click OK

**Optional:** If SSC has to be running on a secure HTTP protocol then configure the tomcat to use HTTPS with a certificate and document the HTTPS port.

## Deploying JDBC Driver

The JDBC Driver of MS SQL and MySQL is already embedded into SSC war file, so no need to download and install the JDBC Driver for MS SQL.

## Deploying SSC war file

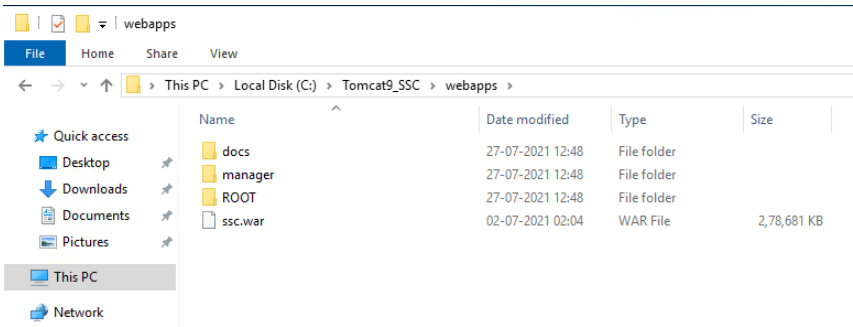
Download "Fortify\_SSC\_Server\_21.1.0.zip" and "Fortify\_21.1.1\_Server\_WAR\_Tomcat.zip" from Software Portal.

Fortify\_SSC\_Server\_21.1.0.zip is a GA release and  
Fortify\_21.1.1\_Server\_WAR\_Tomcat.zip is a SSC patch.

Extract both zip files in a temporary location.

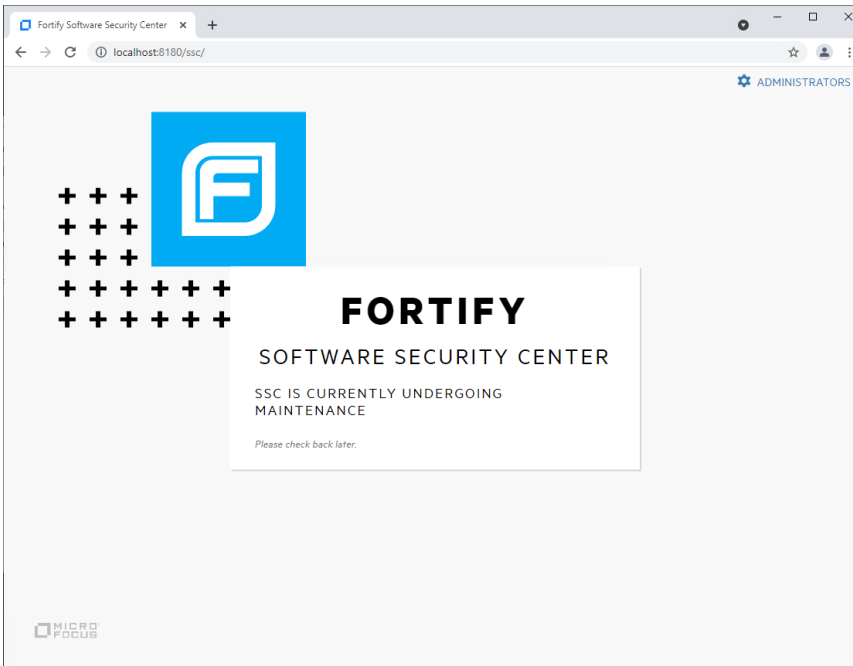
Stop the Tomcat Service.

Copy the ssc.war file from "Fortify\_21.1.1\_Server\_WAR\_Tomcat.zip" to  
C:\Tomcat9\_SSC\webapp folder.

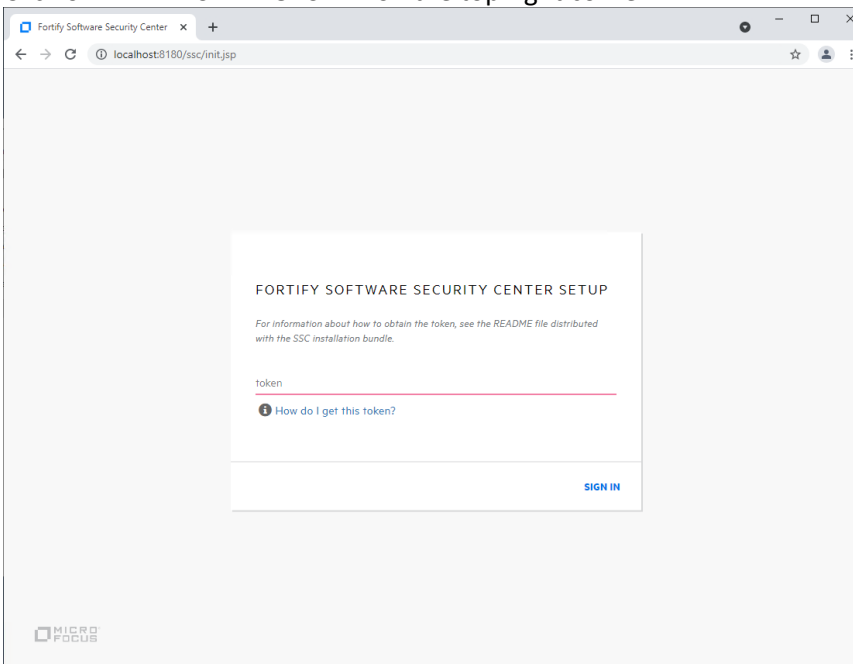


Start the tomcat service.

Open the URL : <http://localhost:8180/ssc> in Chrome.

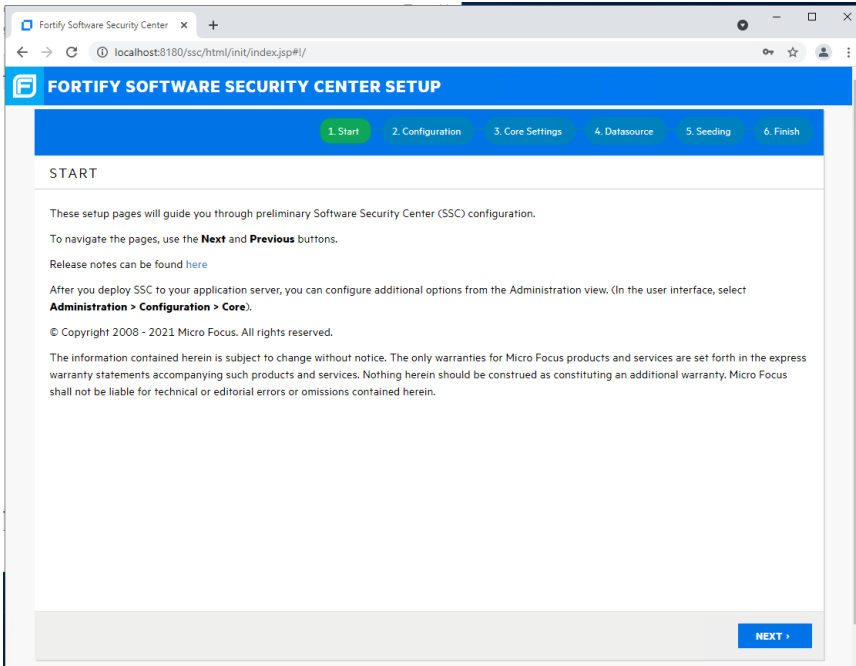


Click on ADMINISTRATORS link on the top right corner.

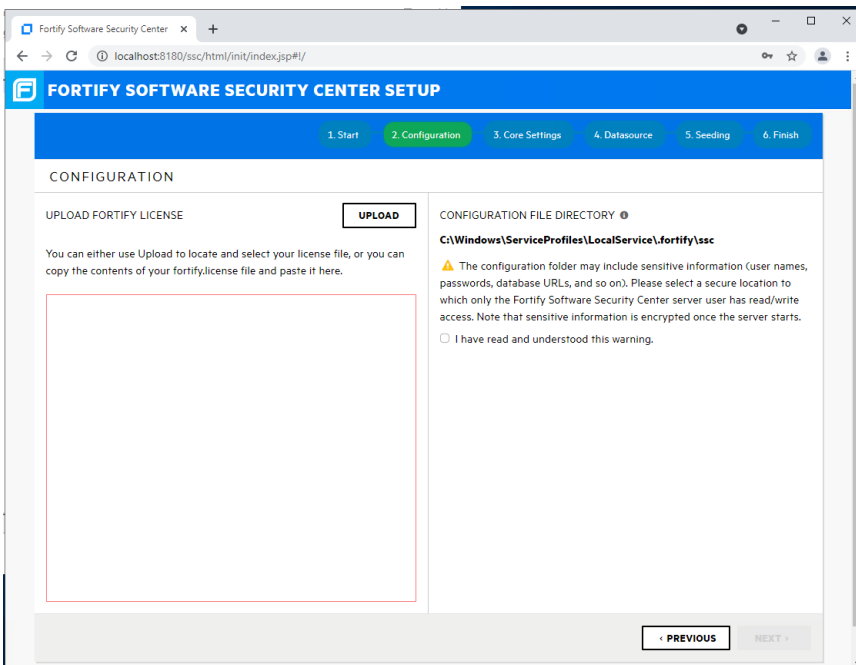


It will ask to enter the Token.

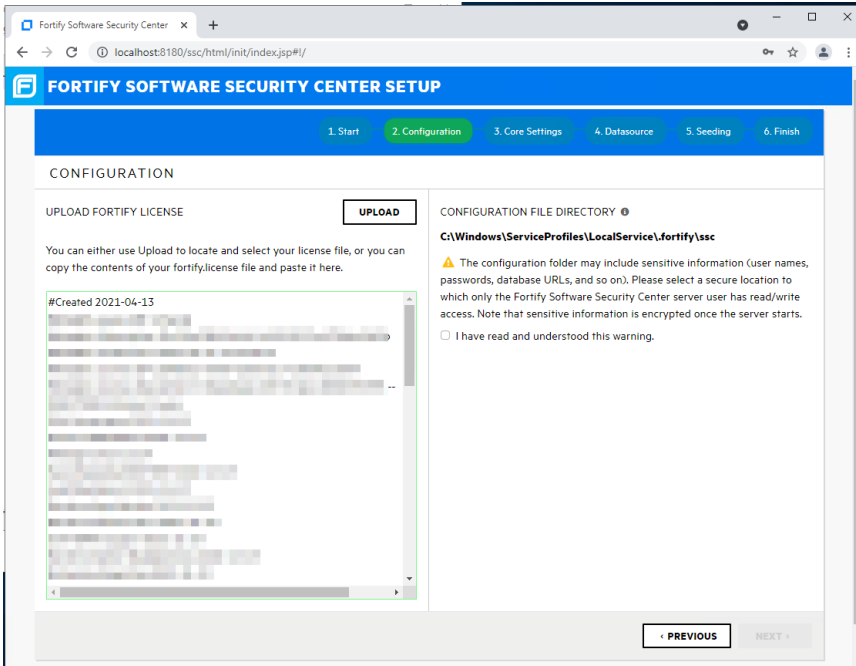




Click Next.

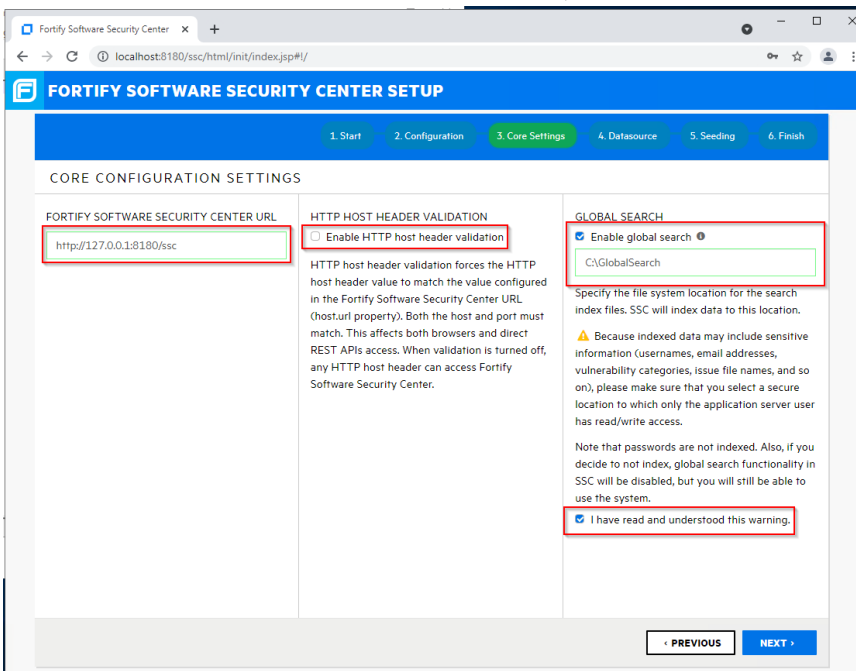


Click the **UPLOAD** button to select and upload the “fortify.license” file.



Click on the check box of "I have read and understood this warning"

Then click Next and Create a folder named C : \GlobalSearch

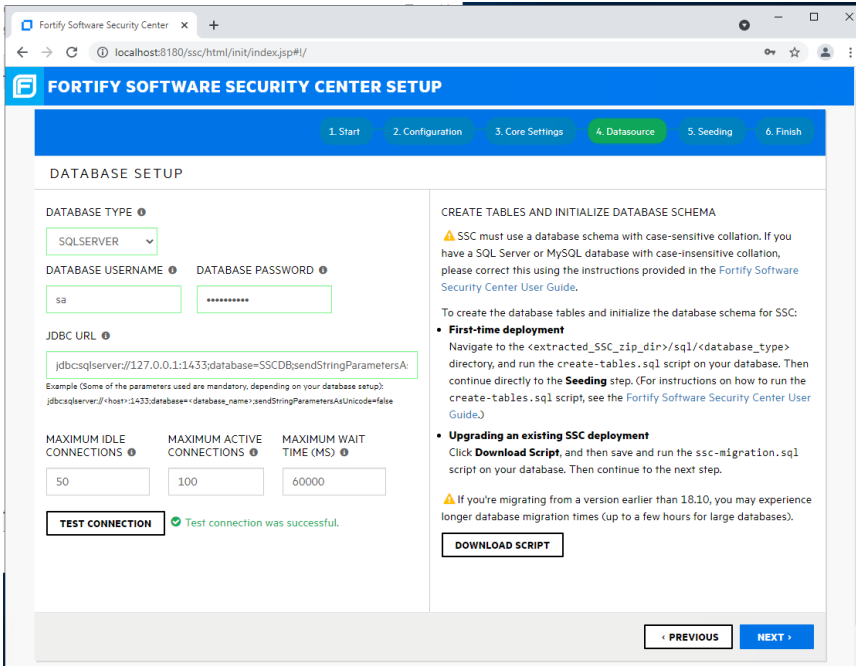


Enter the URL for Fortify SSC i.e. <http://127.0.0.1:8180/ssc> enable Global Search, enter "C : \GlobalSearch" in the text box.

Do **NOT** Enable HTTP host header validation and Enable "I have read and understood this warning."

Click Next.





From the Drop Down, select the Database as "SQLSERVER"

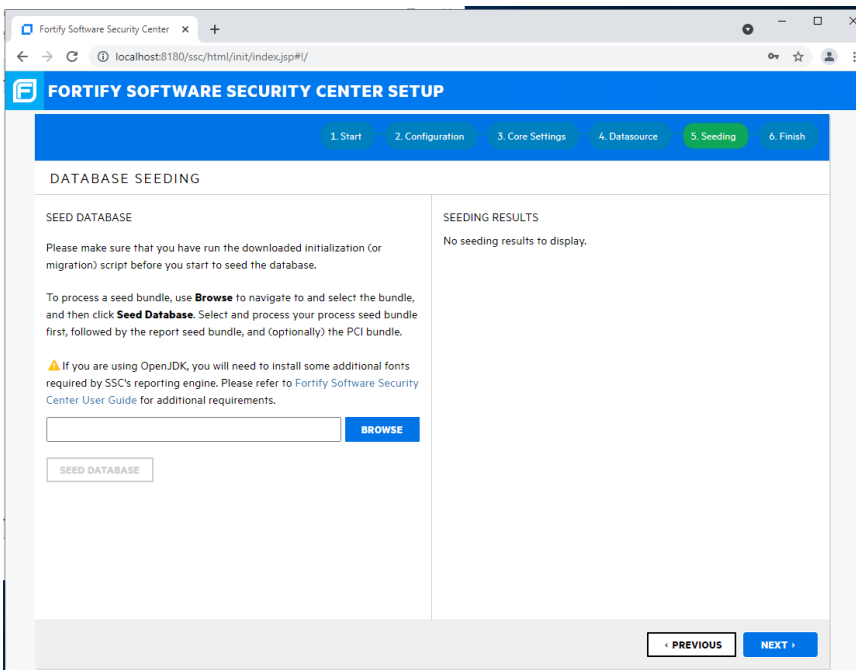
Enter the DATABASE USERNAME as "sa" and its Password.

In the JDBC URL as

`jdbc:sqlserver://127.0.0.1:1433;database=SSCDB;sendStringParametersAsUnicode=false`

Test the connection.

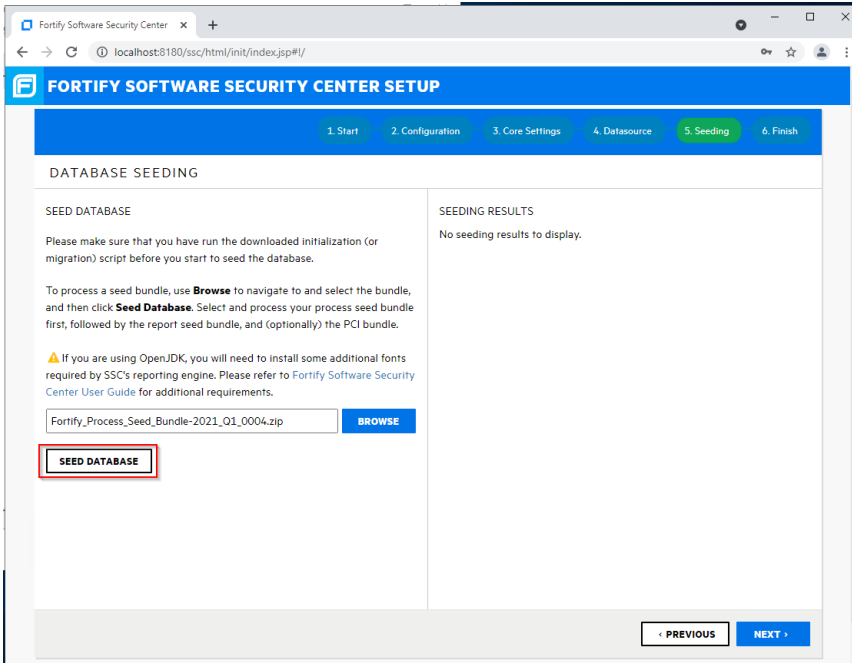
If test is successful then click Next.



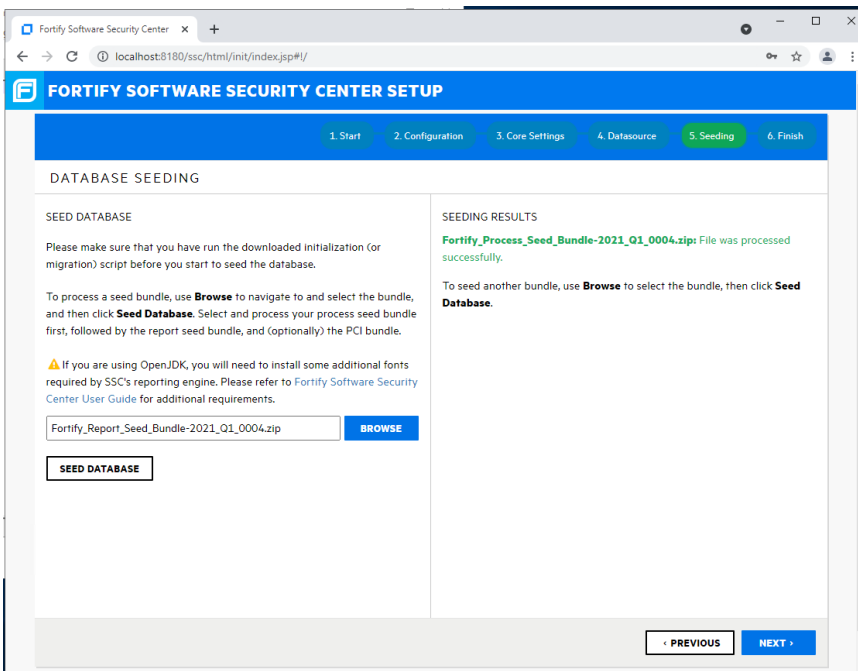
In the Seed, database BROWSE and select the file and click on SEED DATABASE in the below sequence, these files will be in **Fortify\_SSC\_Server\_21.1.0.zip** file –

- Fortify\_Process\_Seed\_Bundle-2021\_Q1\_0004.zip
- Fortify\_Report\_Seed\_Bundle-2021\_Q1\_0004.zip
- Fortify\_PCI\_Basic\_Seed\_Bundle-2021\_Q1\_0004.zip
- Fortify\_PCI\_SSF\_Basic\_Seed\_Bundle-2021\_Q1\_0004.zip

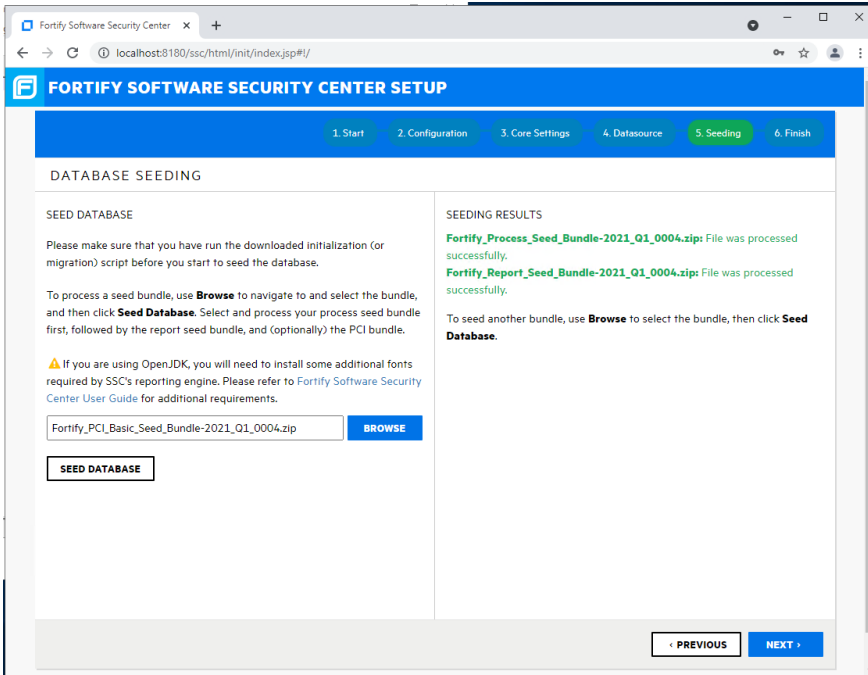
Browse and select Fortify\_Process\_Seed\_Bundle-2021\_Q1\_0004.zip.



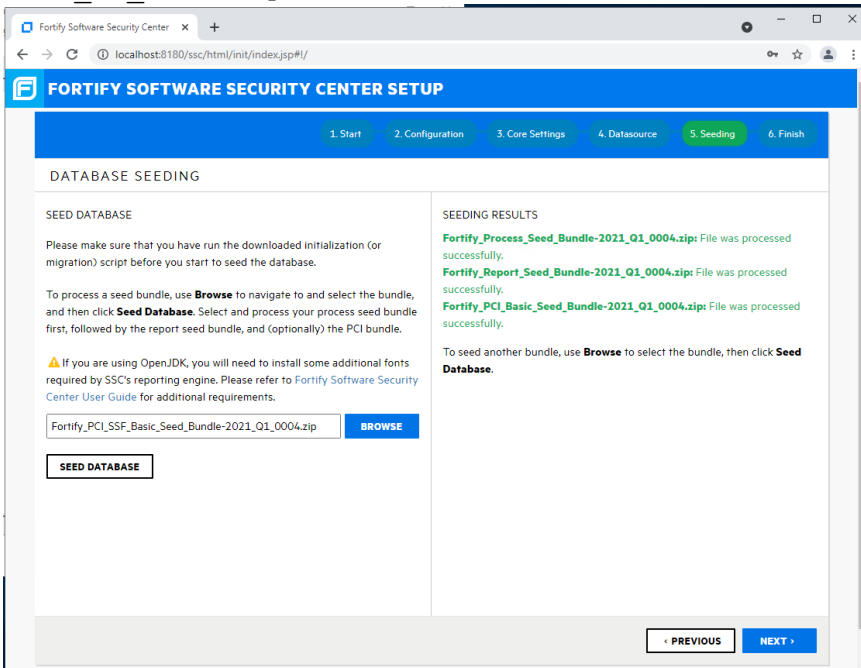
Click SEED DATABASE.



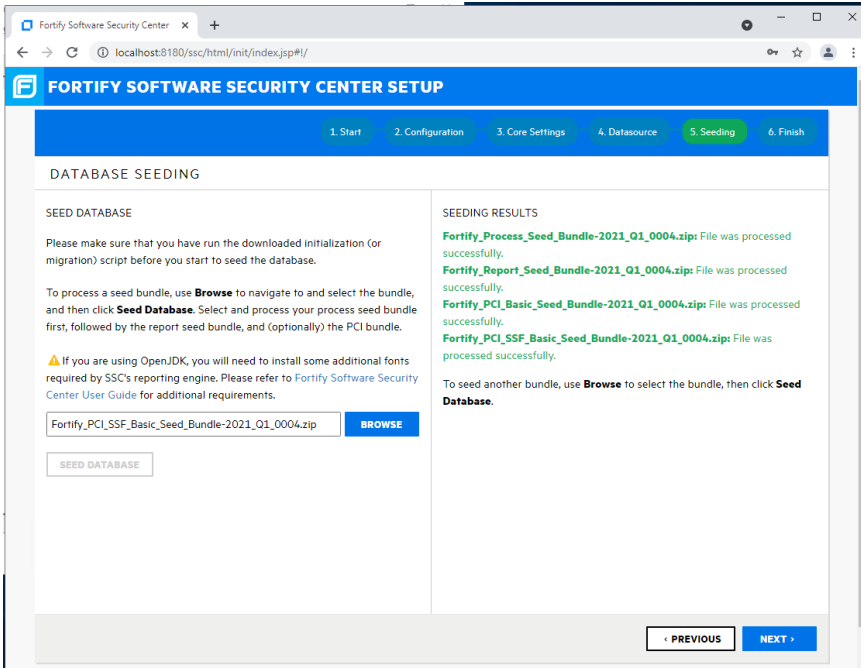
After the file was processed successfully, browse and select "Fortify\_Report\_Seed\_Bundle-2021\_Q1\_0004.zip", then click SEED DATABASE.



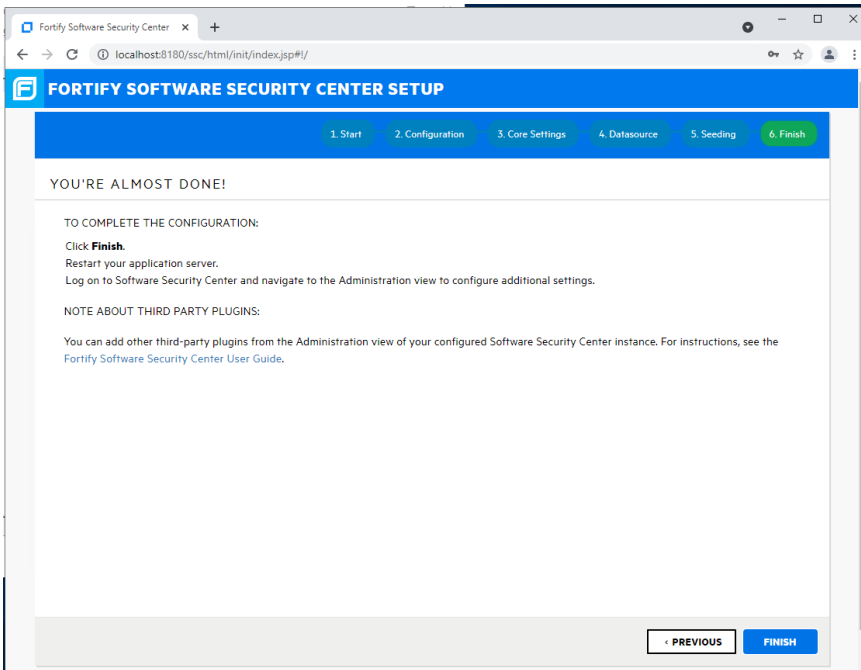
After the file was processed successfully, browse and select “Fortify\_PCI\_Basic\_Seed\_Bundle-2021\_Q1\_0004.zip”, then click SEED DATABASE.



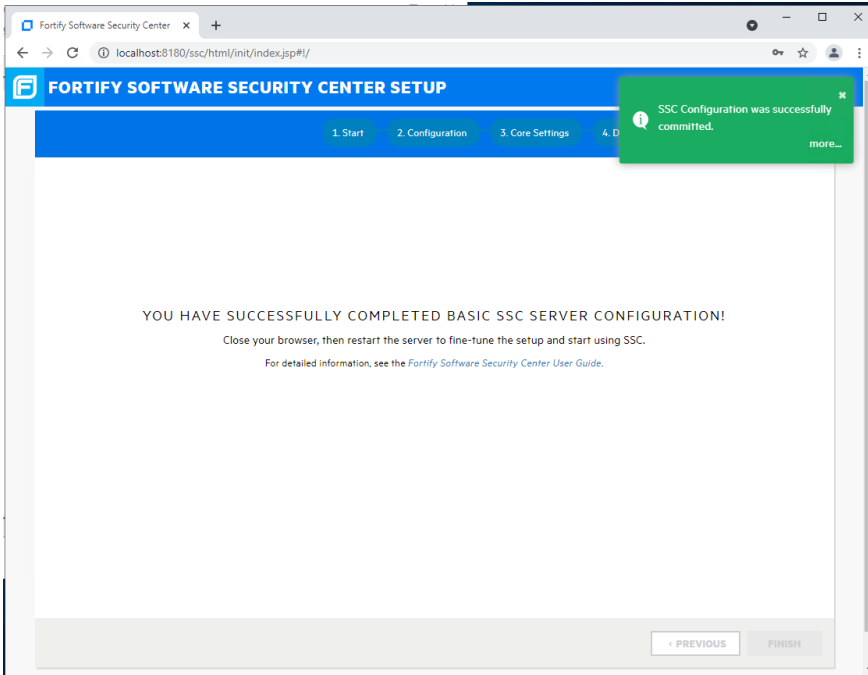
Browse and select “Fortify\_PCI\_SSF\_Basic\_Seed\_Bundle-2021\_Q1\_0004.zip” then click SEED DATABASE.



After files are processed successfully, Click Next.



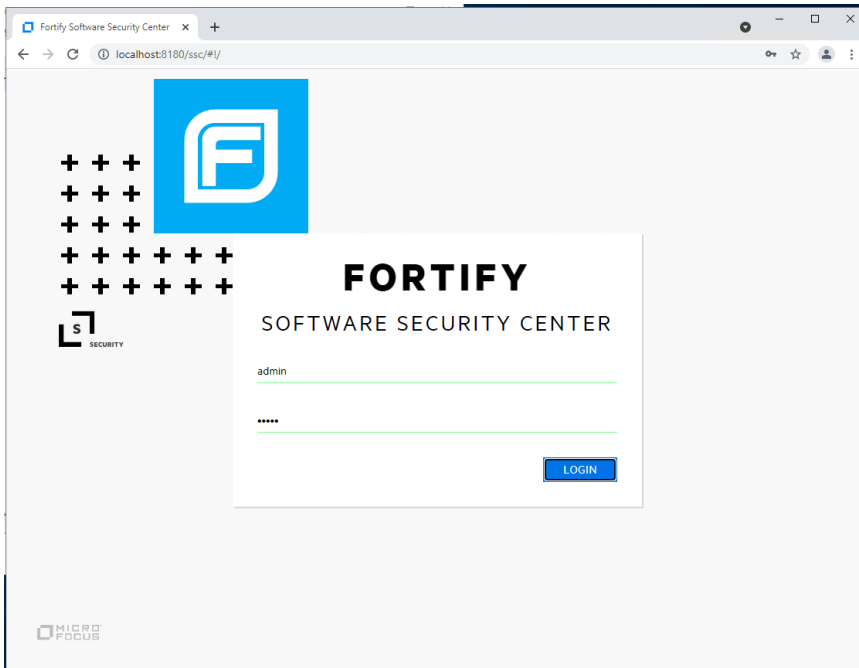
Click Finish.



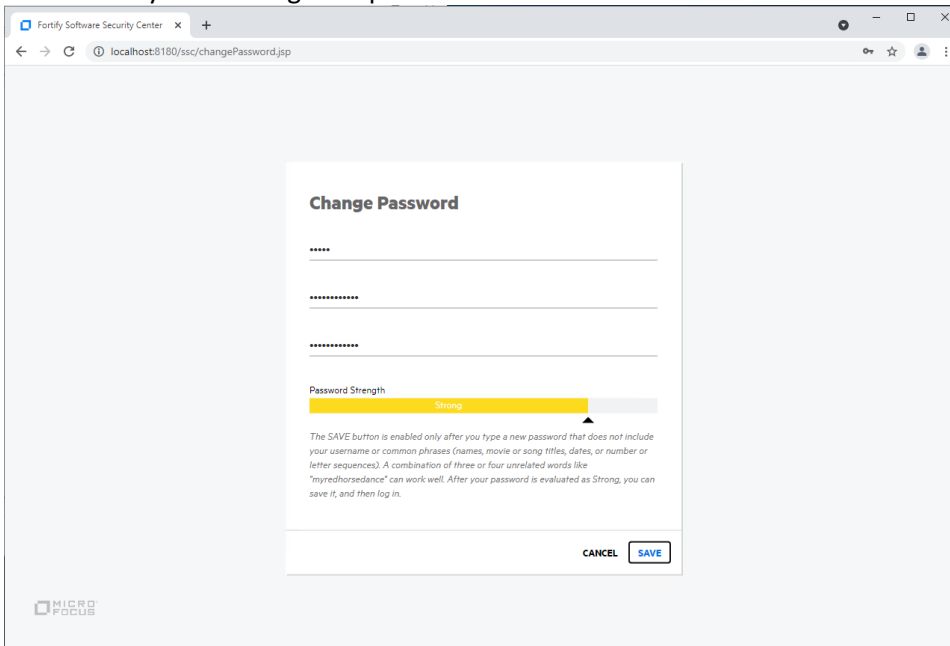
Now Restart Tomcat service and restart the Chrome Browser.

Test the SSC Server

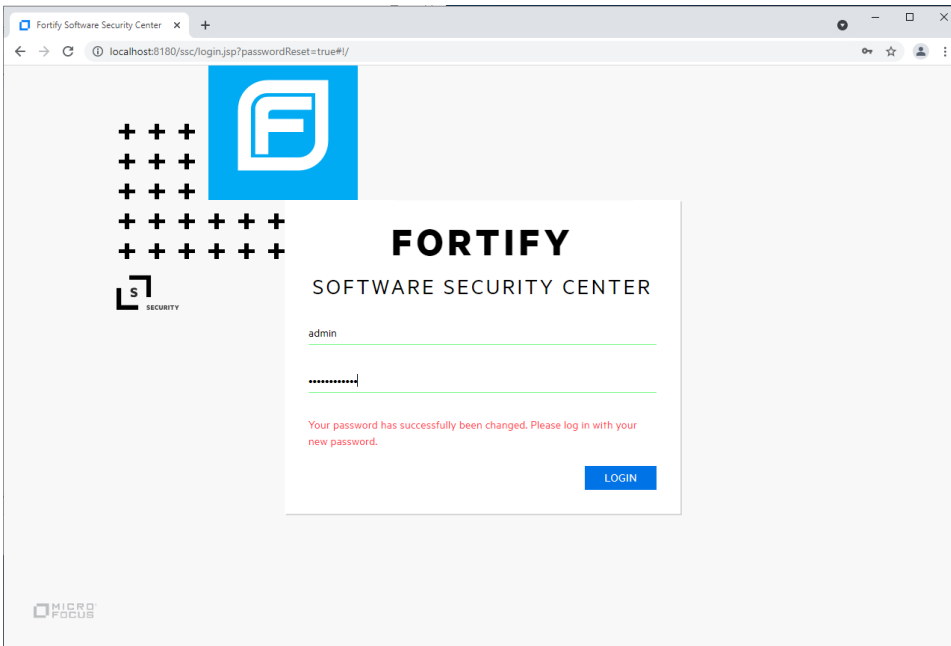
Open the SSC Server URL (i.e. <http://127.0.0.1:8180/ssc> ) and login as user “admin” with the password “admin”.



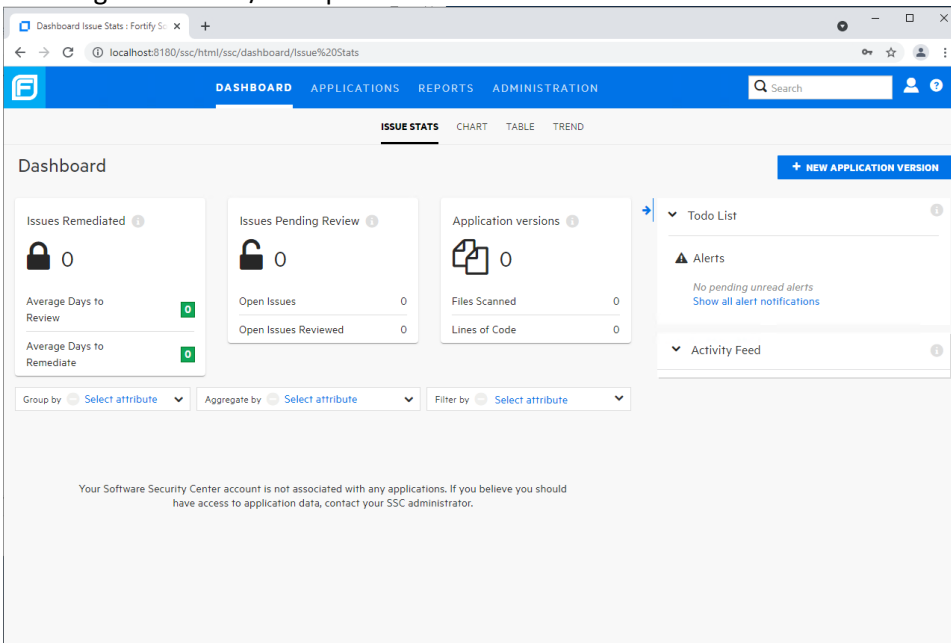
SSC will ask you to change the password.



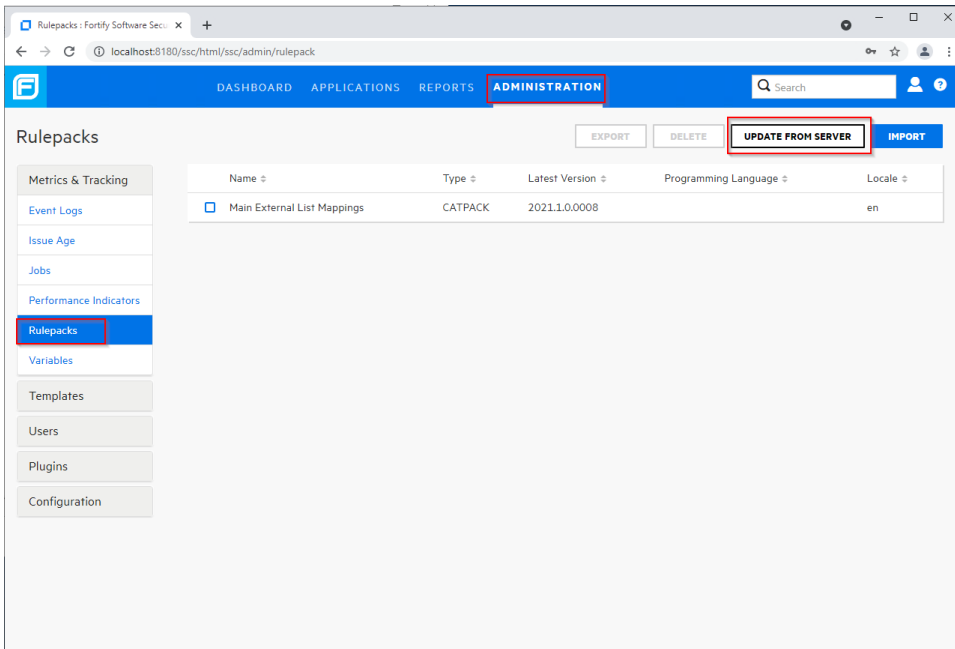
After changing the password.



Now Login as admin / new password.

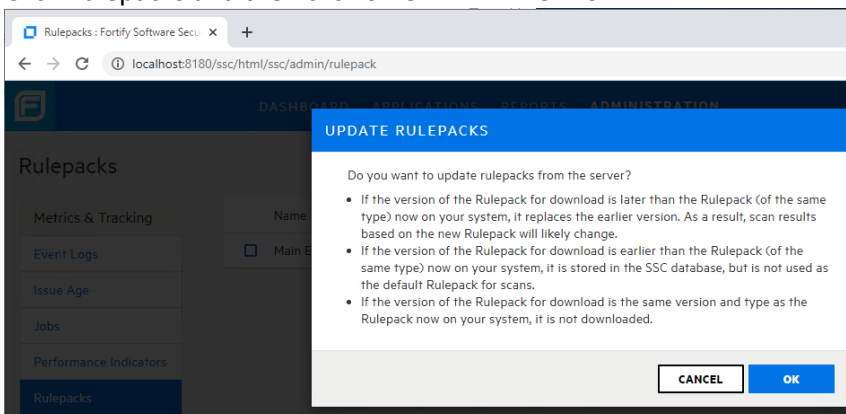


Click ADMINISTRATION.

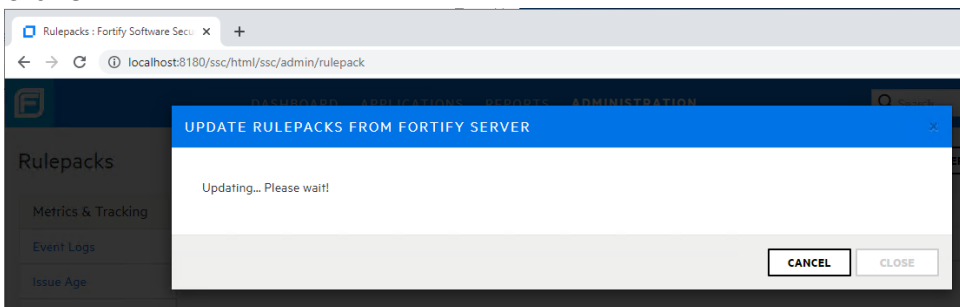


**Conditional:** if a Proxy setting is required to download rule packs then configure it in ADMINISTRATION -> Configuration -> Proxy.

Click Rulepacks and then click on UPDATE FROM SERVER.

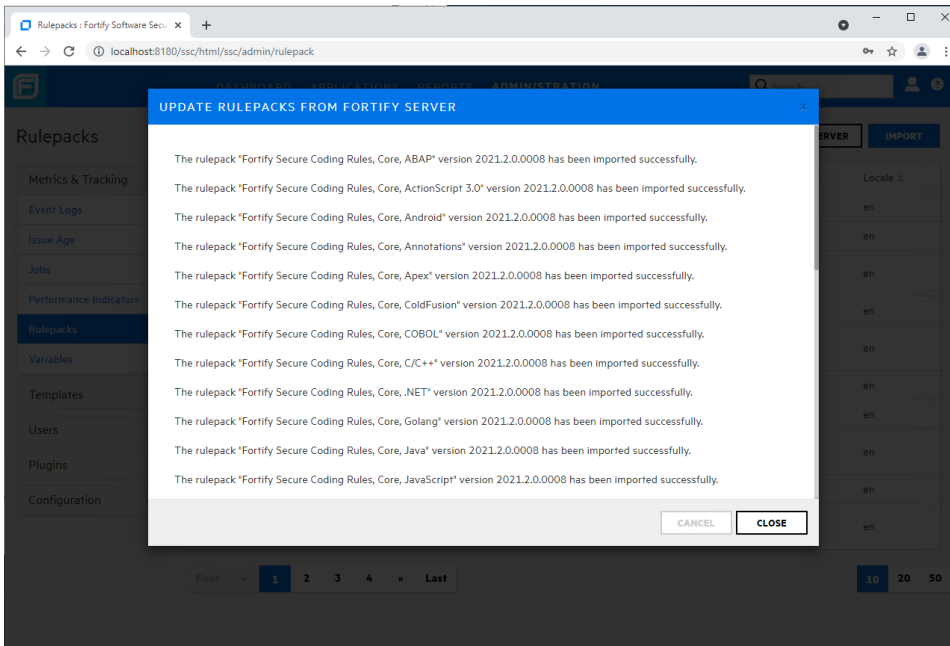


Click OK.



Wait for RulePack update to complete.





In a few mins, all the Rules will be downloaded. Click CLOSE.

Now SSC Server is ready to use.

< !! End of the Document !! >