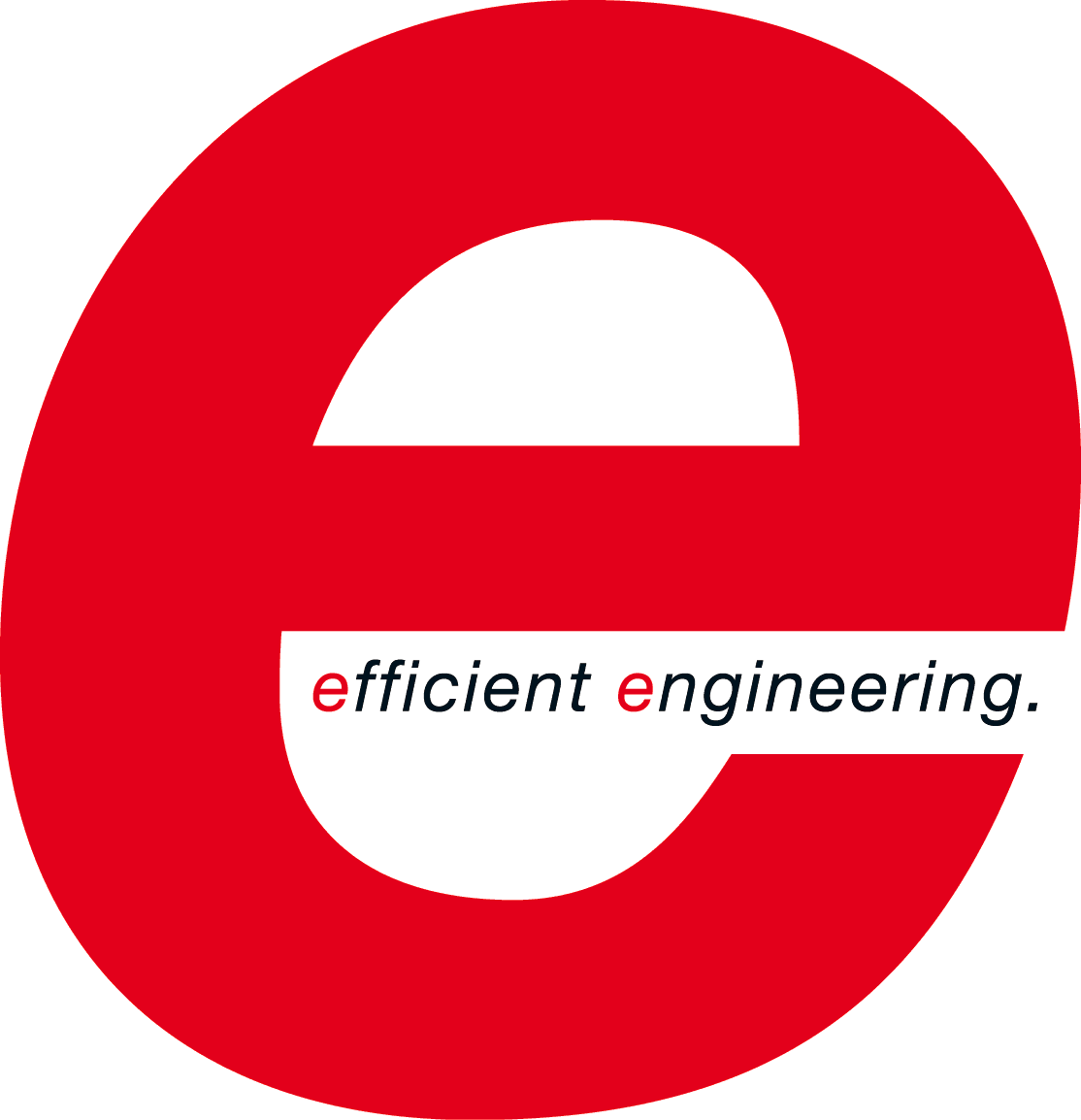
Installation Guide – Teamcenter 13

Status: 06/2020



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Technical information

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Table of contents

[Table of contents 4](#_Toc44311516)

[System environment 6](#_Toc44311517)

[Database / operating system 6](#_Toc44311518)

[Additional Software 6](#_Toc44311519)

[Installation Database SQL Server 2017 Express Advanced Edition 7](#_Toc44311520)

[Install database 7](#_Toc44311521)

[Server Configuration 10](#_Toc44311522)

[Installation SQL Server Management Studion 13](#_Toc44311523)

[Activate database protocols 14](#_Toc44311524)

[Installation JAVA 15](#_Toc44311525)

[Installation JDK 1.8.0\_191 (64bit) 15](#_Toc44311526)

[Set preconditions for PLM license server 16](#_Toc44311527)

[Modify hosts file 16](#_Toc44311528)

[Installation Teamcenter 17](#_Toc44311529)

[Create a Teamcenter database inside MS-SQL 17](#_Toc44311530)

[Edit script create database for MS-SQL database 17](#_Toc44311531)

[Run database creation script 19](#_Toc44311532)

[Installation Teamcenter server incl. 2-tier client 21](#_Toc44311533)

[Installation 4-Tier Client 41](#_Toc44311534)

[Installation Thin-Client 49](#_Toc44311535)

[Copy the ICDs of Tc13 49](#_Toc44311536)

[Add the web\_tier 51](#_Toc44311537)

[Disk Locations for Install Images: 52](#_Toc44311538)

[Solutions 52](#_Toc44311539)

[Modify Required Context Parameters 53](#_Toc44311540)

[Installation and configuration Apache Web Application Server 55](#_Toc44311541)

[Installation Tomcats 55](#_Toc44311542)

[Deploy of web\_tiers 55](#_Toc44311543)

[Set system variables 56](#_Toc44311544)

[Setup 57](#_Toc44311545)

[Automatic Service 58](#_Toc44311546)

System environment

Database / operating system

• Operating system: Windows Server 2016

Additional Software

• Teamcenter 13

• MS-SQL 2017

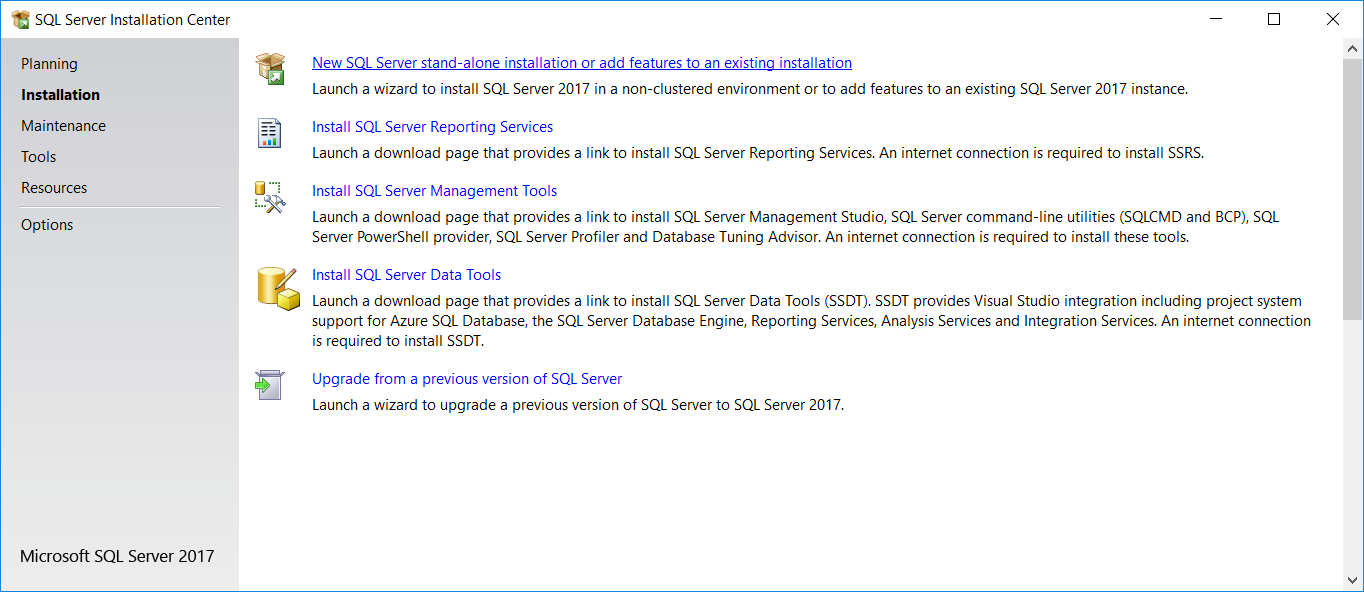
• JBOSS (5.1.0.GA-jdk6)

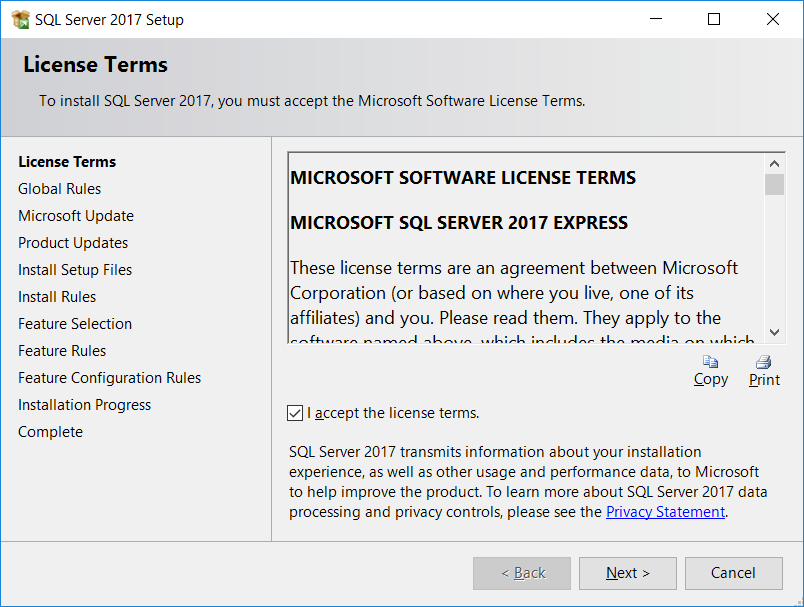
Additionally necessary SQL database licenses are required.

# Installation Database SQL Server 2017 Express Advanced Edition

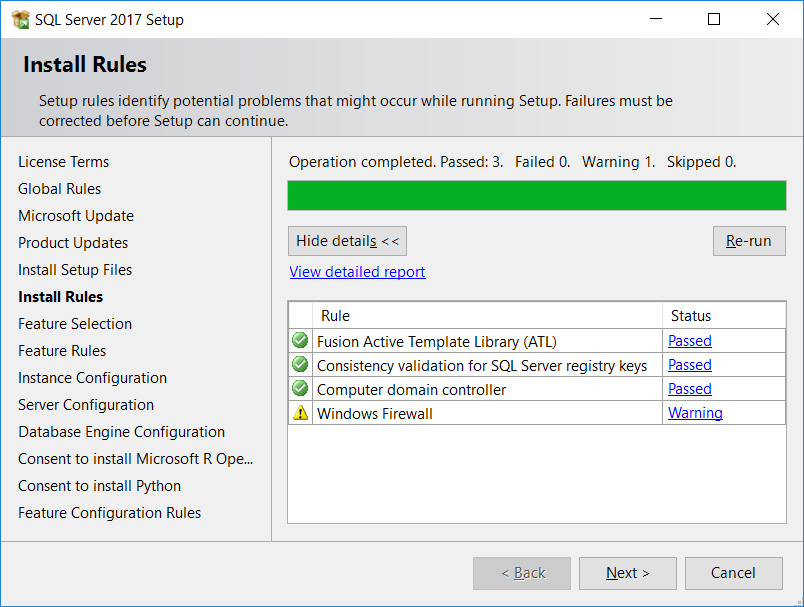
## Install database

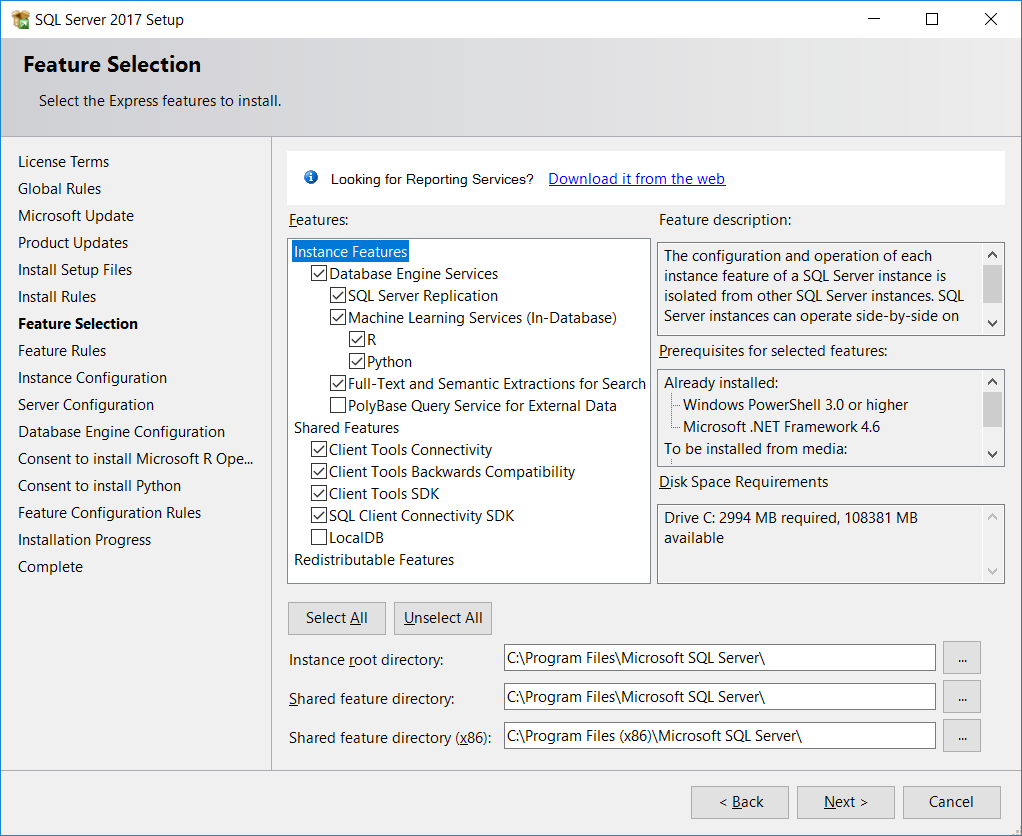
*Run file as administrator*

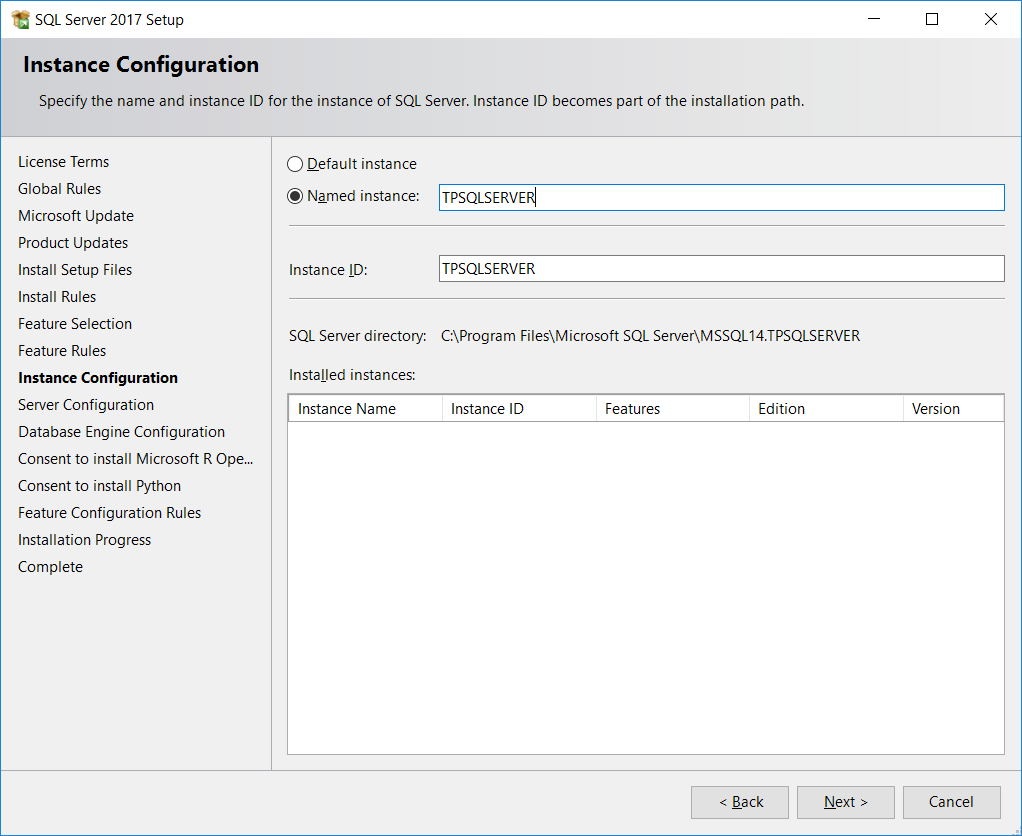
"C:\Inst\SQLEXPRADV\_x64\_ENU\SETUP.EXE"  




Next 🡪

Ignore warning 🡪 Next  


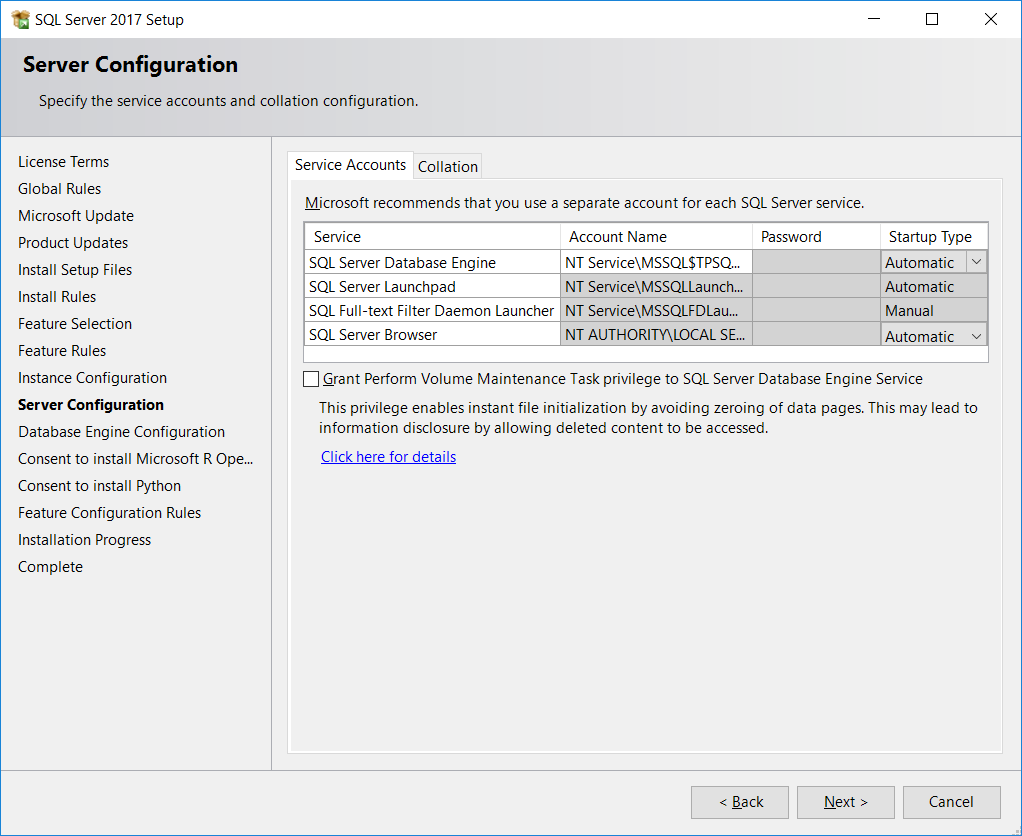
***Feature Selection***

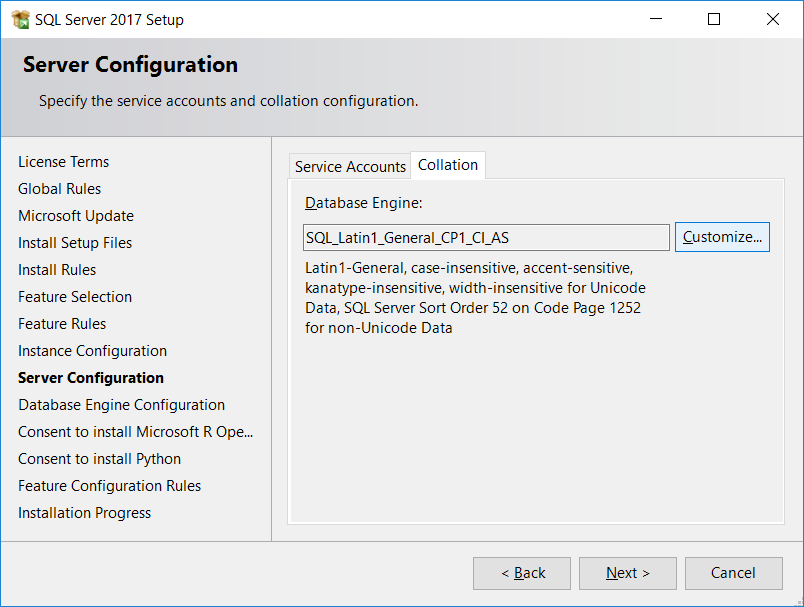
***Instance Configuration***

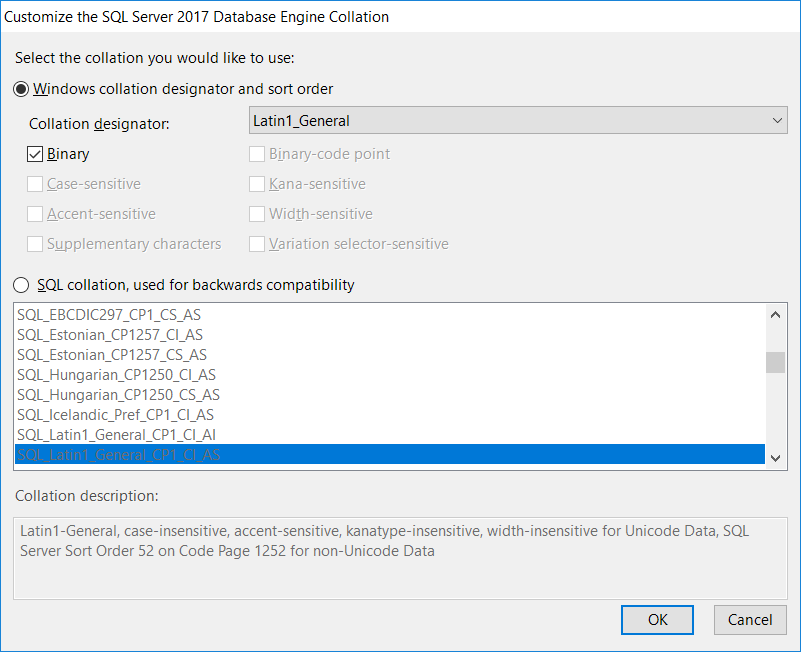
Named Instance: TPSQLSERVER

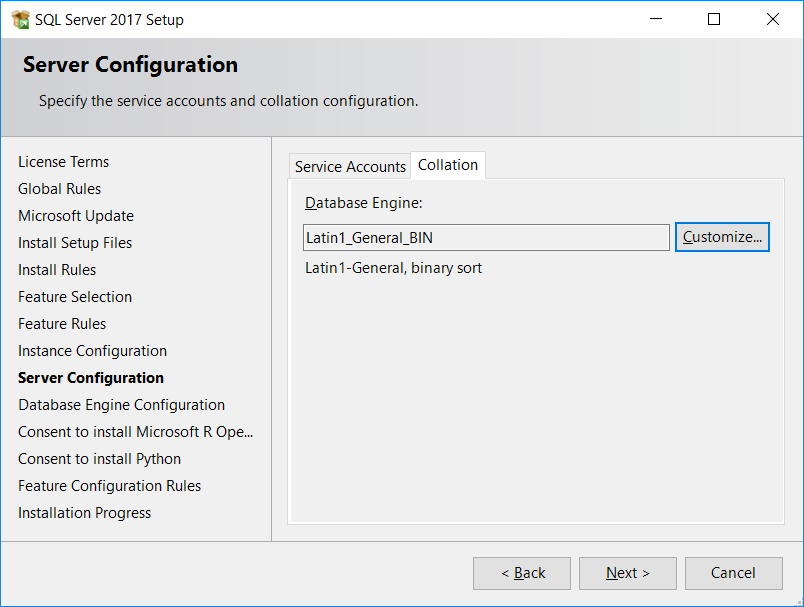
Instance ID: TPSQLSERVER

## Server Configuration

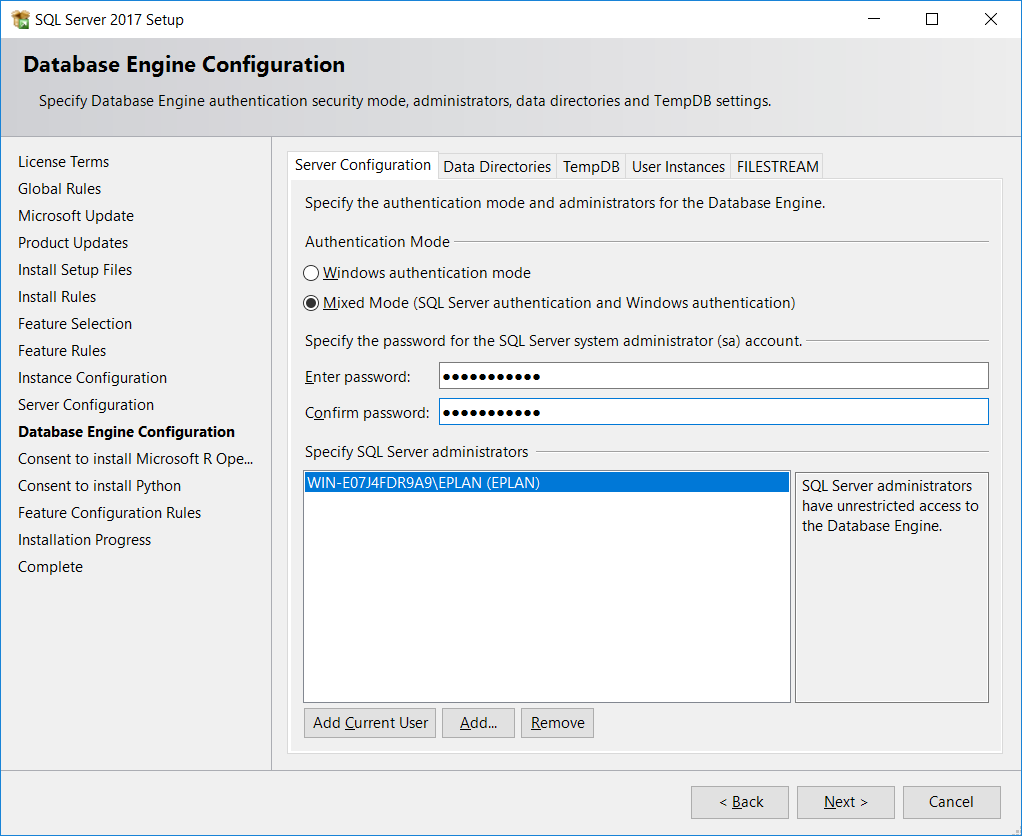
***Service Accounts***

***Collation***

***Customize***



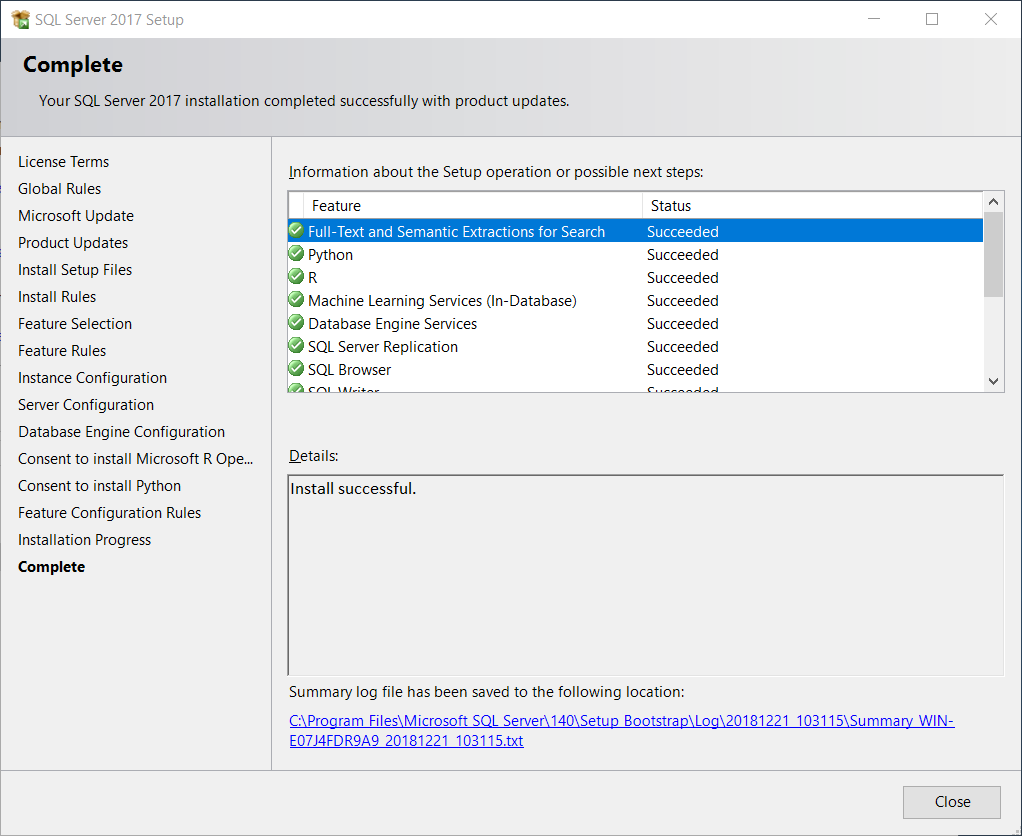
***Database Engine Configuration***

***Server Configuration***

Passwort SQL Server system administrator (sa) account: tpsqlserver17!

Next/accept for the next screens

Complete



# Installation SQL Server Management Studion

*Run file as administrator*

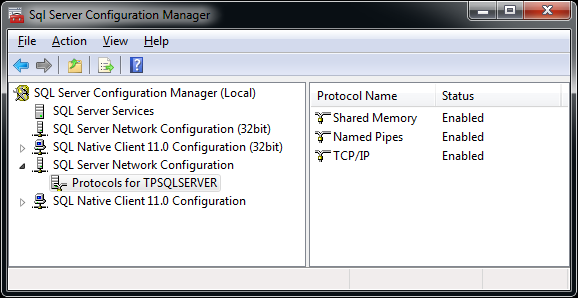
"C:\Inst\SSMS-Setup-ENU.exe"

Install 🡪 Close

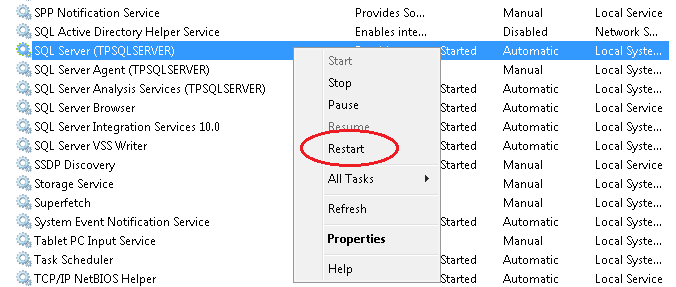
## Activate database protocols

Under certain conditions the configuration of MS-SQL-database protocols for TCP/IP and Named Pipes are not activated:

*🡪 SQL Server 2017 Configuration Manager 🡪 SQL Server Network Configuration 🡪Protocols for* „TPSQLSERVER“ 🡪 Named Pipes and TCP/IP enable



Under SQL server services restart „SQL Server (TPSQLSERVER)“ service!



Installation JAVA

Installation JDK 1.8.0\_191 (64bit)

Java must be installed before installing the Teamcenter server.

*Run file as administrator*

jdk-8u191-windows-x64.exe

Installation path:

C:\Program Files\Java\jre1.8.0\_191\

C:\Program Files\Java\jre1.8.0\_191\

Set preconditions for PLM license server

For the installation of Teamcenter availability and access to a license from Siemens is required. Otherwise the installation process fails.

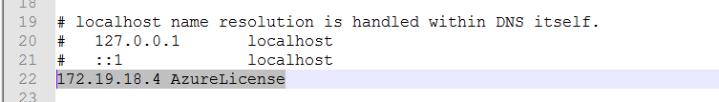
A Siemens PLM license server is already installed.

[28000@AzureLicense](mailto:28000@172.19.18.4) (IP: 172.19.18.4)

Modify hosts file

Edit

C:\Windows\System32\drivers\etc\hosts

Add following line at the end of the file  
172.19.18.4 AzureLicense  


Installation Teamcenter

Create a Teamcenter database inside MS-SQL

The database must be created for Teamcenter before installing the Teamcenter server.

Edit script create database for MS-SQL database

Copy

**C:\Inst\Tc13.0.0.0\_wntx64\tc\db\_scripts\mssql\create\_database.sql.template**

To

**C:\Inst\Tc13.0.0.0\_wntx64\tc\db\_scripts\mssql\create\_database.sql**

In generation script **C:\Inst\Tc13.0.0.0\_wntx64\tc\db\_scripts\mssql\create\_database.sql** following changes should be done:

***Replace name of database***

OLD: @DB\_NAME@

NEW: TCDB

***Replace path for database file***

OLD: @DATA\_PATH@

NEW: C:\Program Files\Microsoft SQL Server\MSSQL14.TPSQLSERVER\MSSQL\DATA

***Replace User name***

OLD: @USER\_NAME@

NEW: infodba

***Replace infodba password***

OLD: @PASSWORD@

NEW: infodba

***Replace Collation***

OLD: @COLLATION@

NEW: Latin1\_General\_BIN

***Replace Language***

OLD: @LANGUAGE@

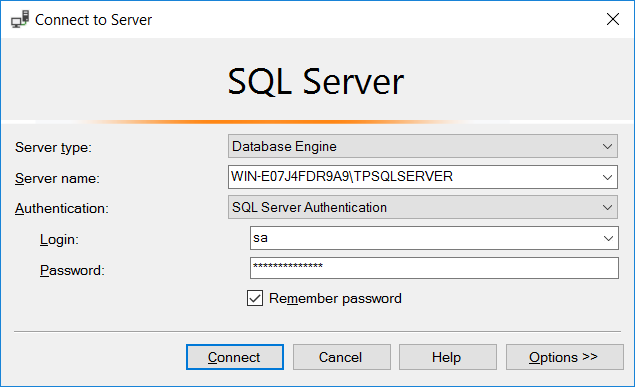
NEW: us\_english

***Add size database file***

OLD: …\TCDB\_Data.MDF’ , FILEGROWTH…

NEW: …\TCDB\_Data.MDF' , SIZE = 5 , FILEGROWTH…

Run database creation script

*Start 🡪 All Programs 🡪 Microsoft SQL Server Tools 17 🡪 Microsoft SQL Server Management Studio 17*

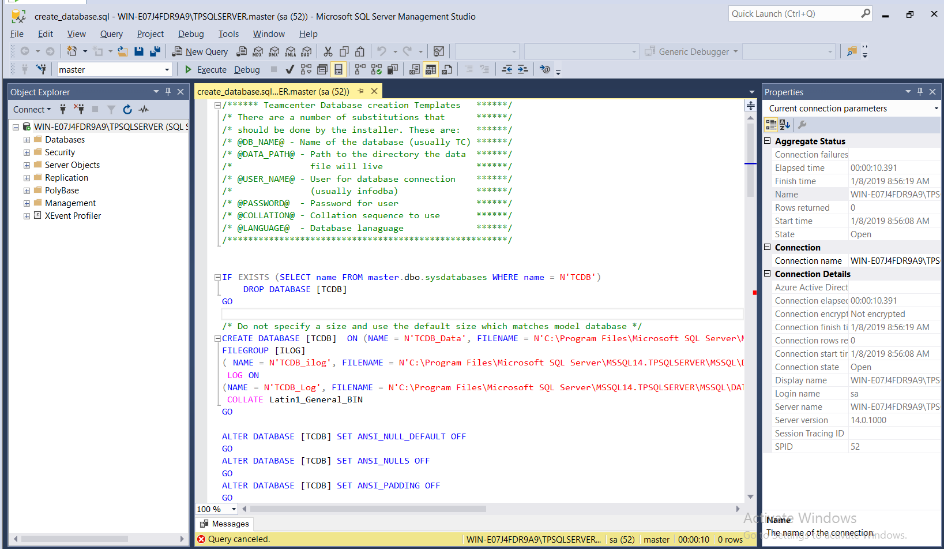
Server name: WIN-E07J4FDR9A9\TPSQLSERVER

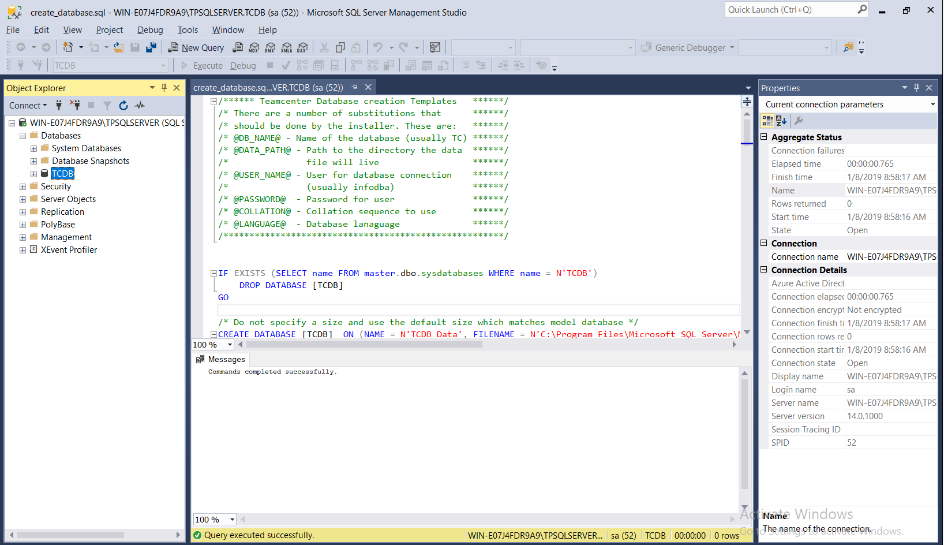
Login: sa

Password: tpsqlserver17!

*File 🡪 Open 🡪 File*

**C:\Inst\Tc13.0.0.0\_wntx64\tc\db\_scripts\mssql\create\_database.sql** *🡪 Open*





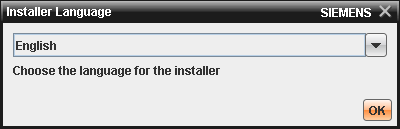
*Exit Microsoft SQL Server Management Studio*

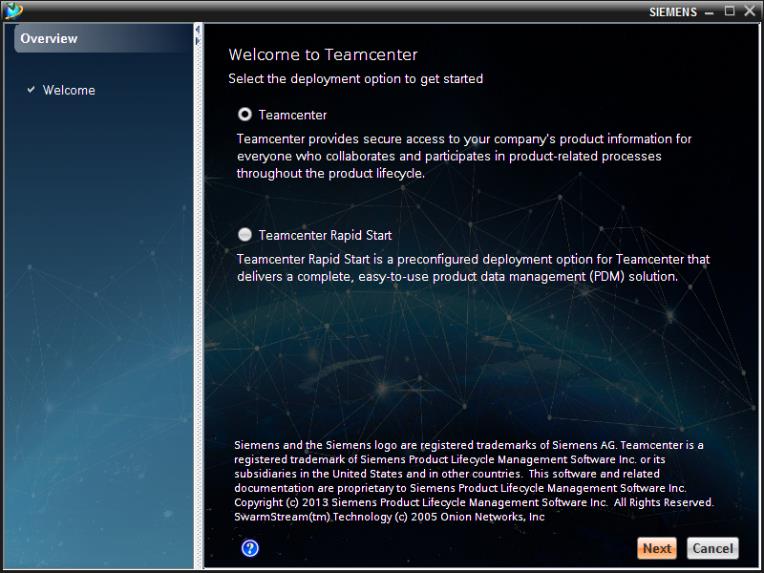
Installation Teamcenter server incl. 2-tier client

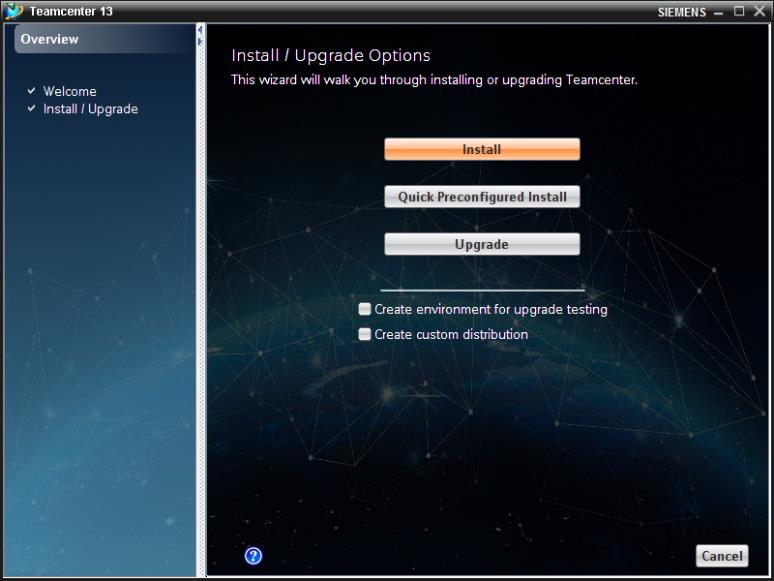
*Run command window as administrator*

*Execute*

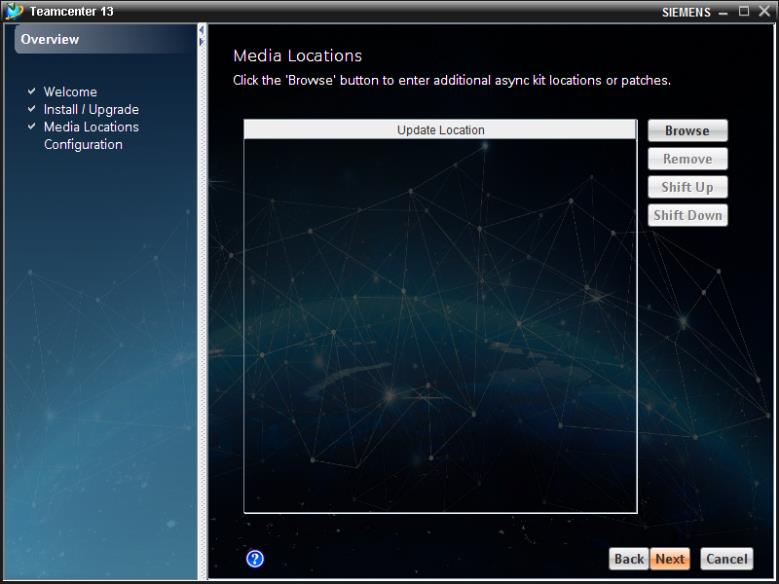
C:\Inst\Tc13.0.0.0\_wntx64\tem.bat -jre "C:\Program Files\Java\jre1.8.0\_191"



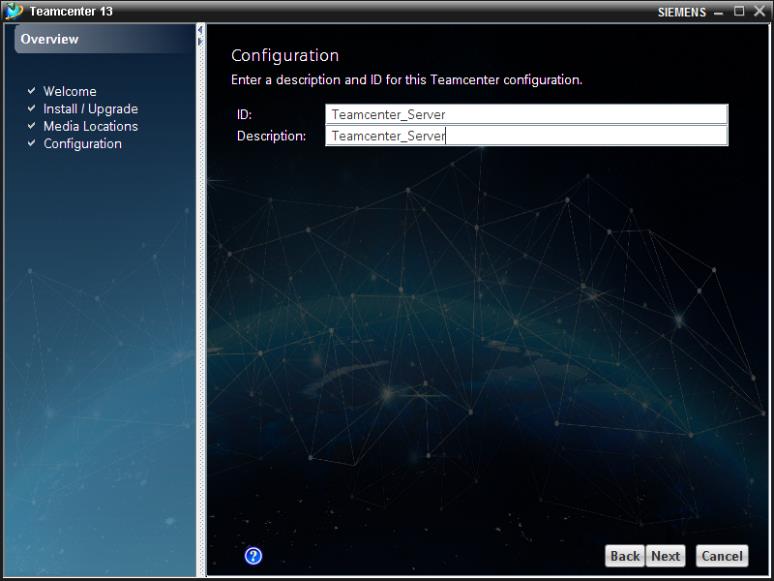




Meda Locations

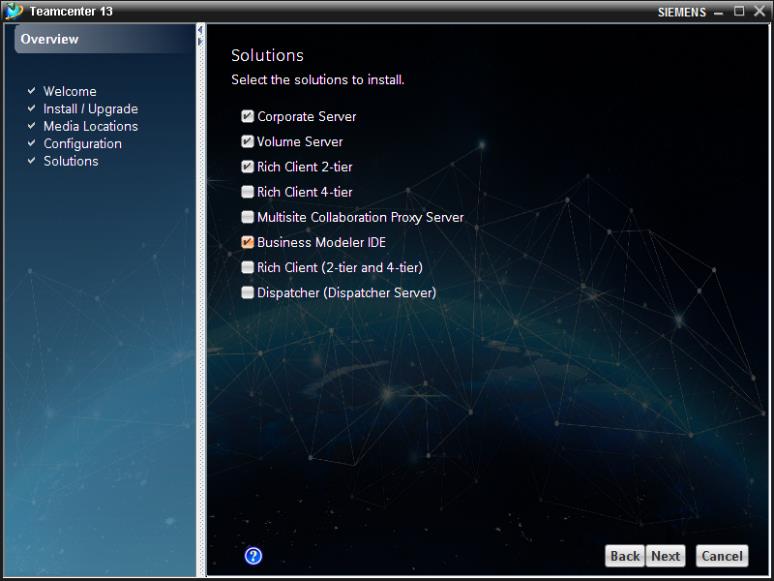


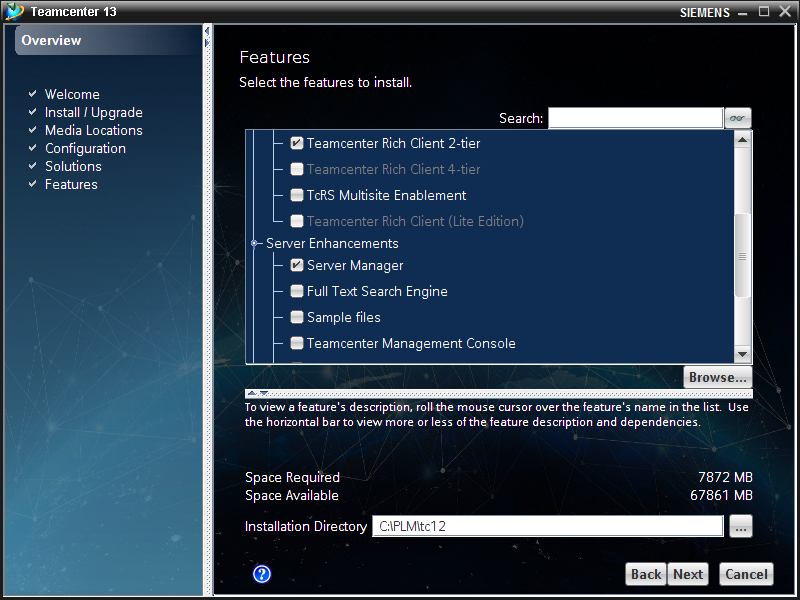
***Configuration***



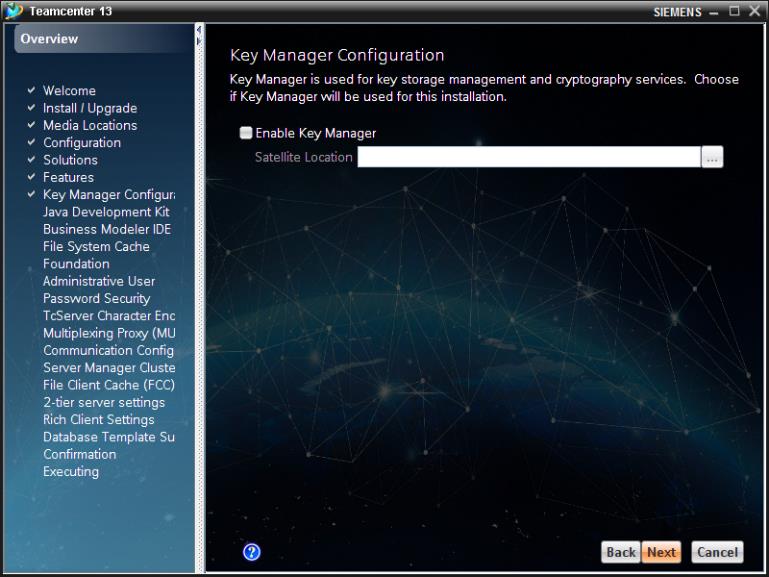
ID: Teamcenter\_Server

Description: Teamcenter\_Server

***Solutions***

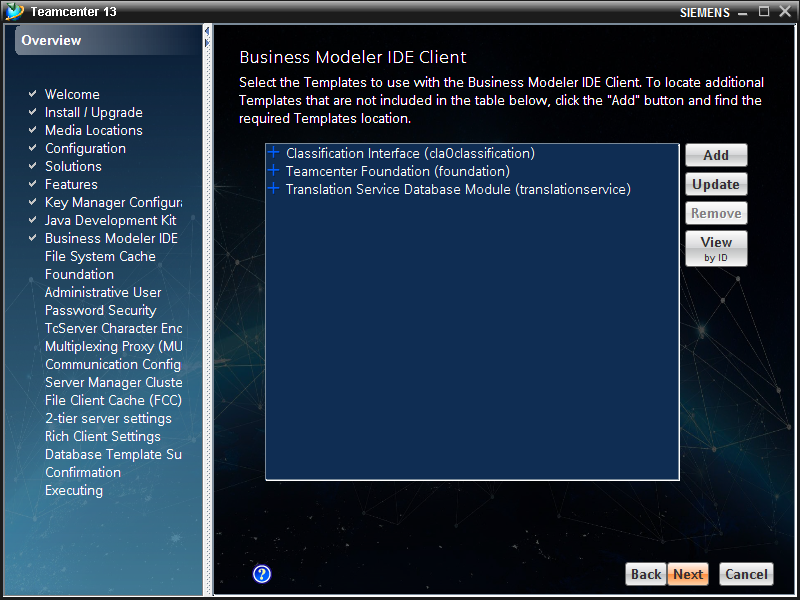
***Features***

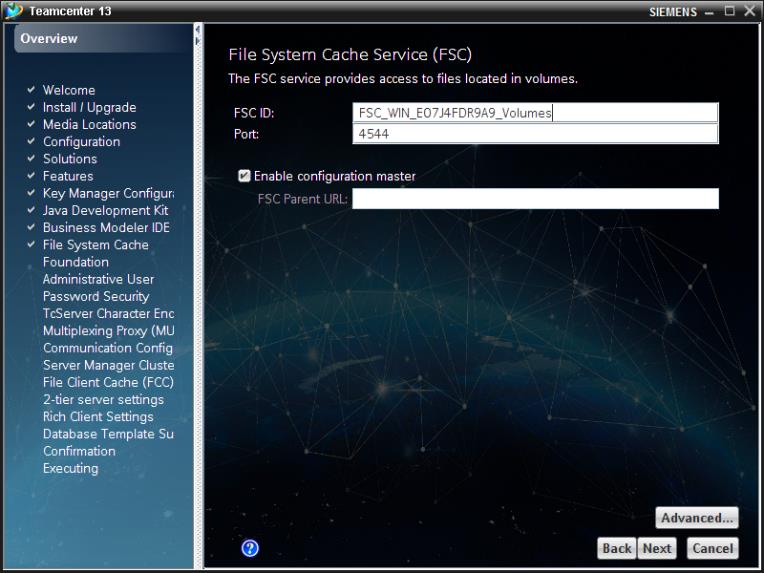
Installation Directory: C:\PLM\tc13





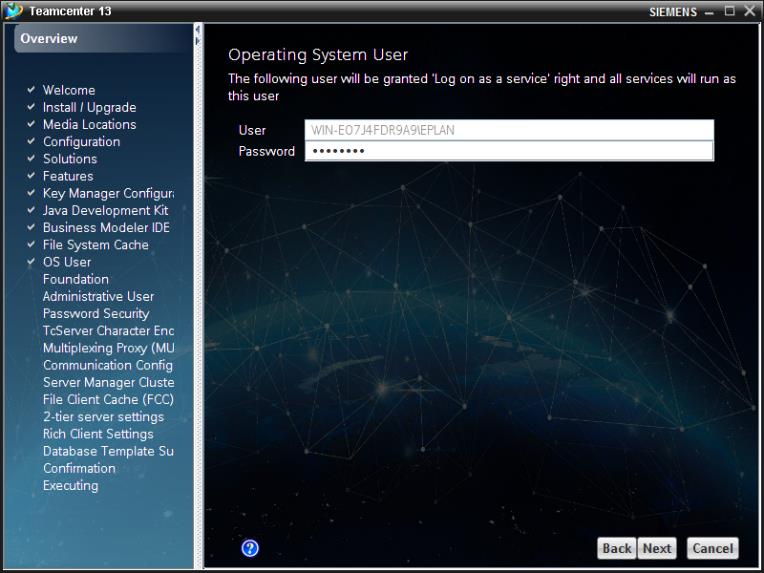
***Business Modeler IDE Client***



***File System Cache Service (FSC)***

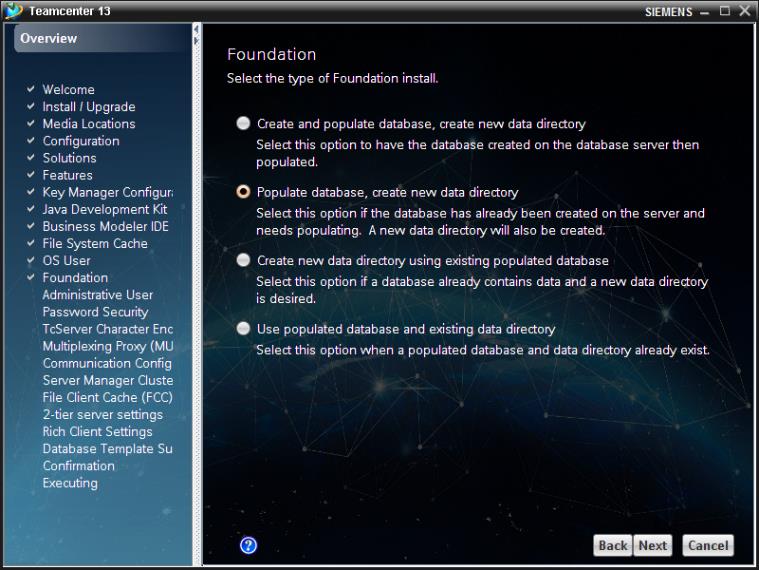
FSC ID: FSC\_WIN\_E07J4FDR9A9\_Volumes

Port: 4544

***Operating System User***

User: WIN-E07J4FDR9A9\EPLAN

Password: Hallo123

***Foundation***

***Foundation Database - TC\_DATA***

Host: WIN-E07J4FDR9A9

Instance: TPSQLSERVER

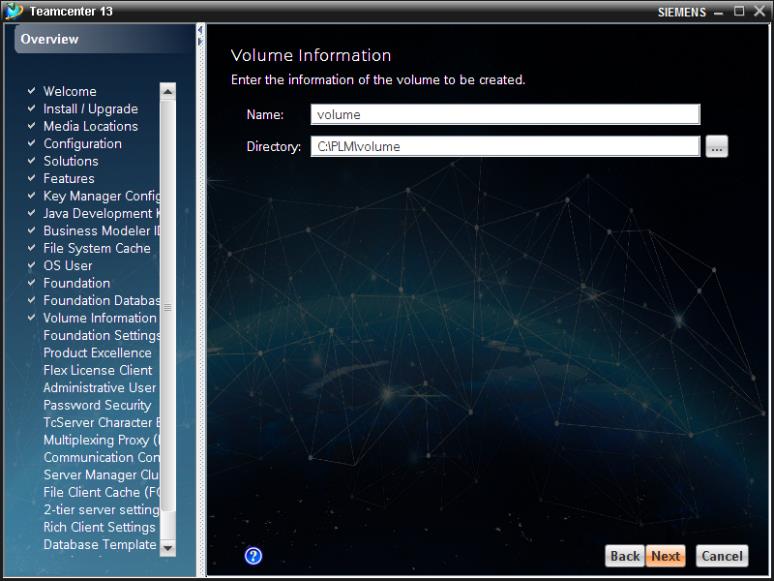
Login Name: infodba

Login Password: infodba

Database Name: TCDB

UTF-8: Enable

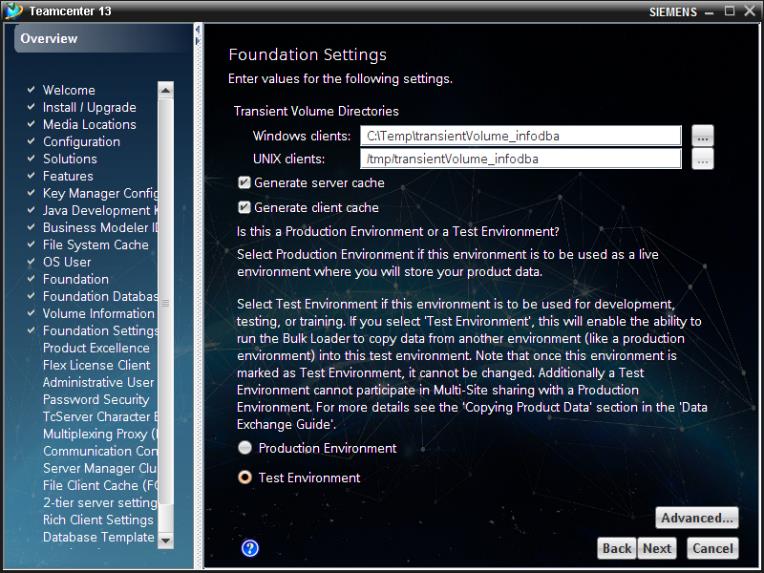
Data Directory: C:\PLM\tcdata

***Volume Information***

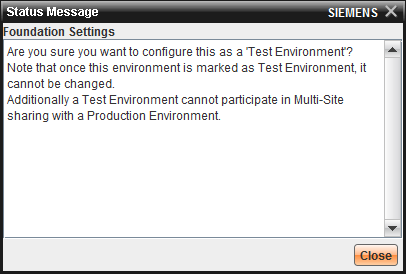
Name: volume

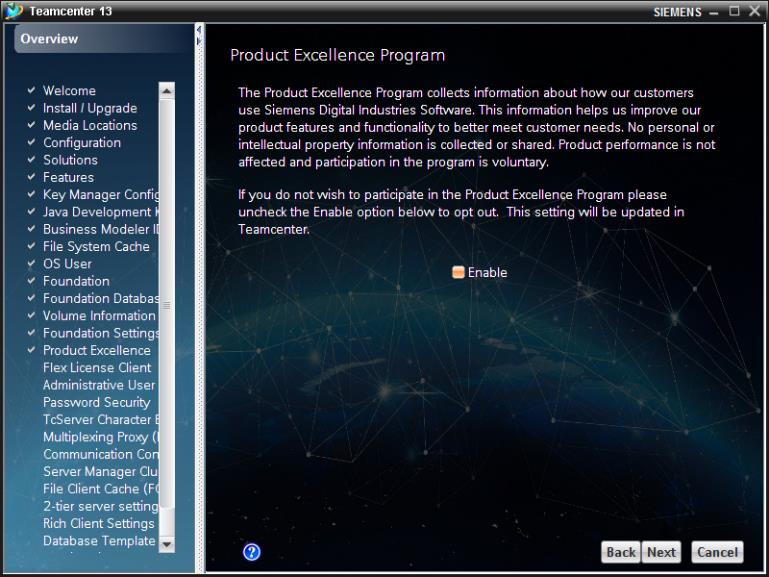
Directory: C:\PLM\volume

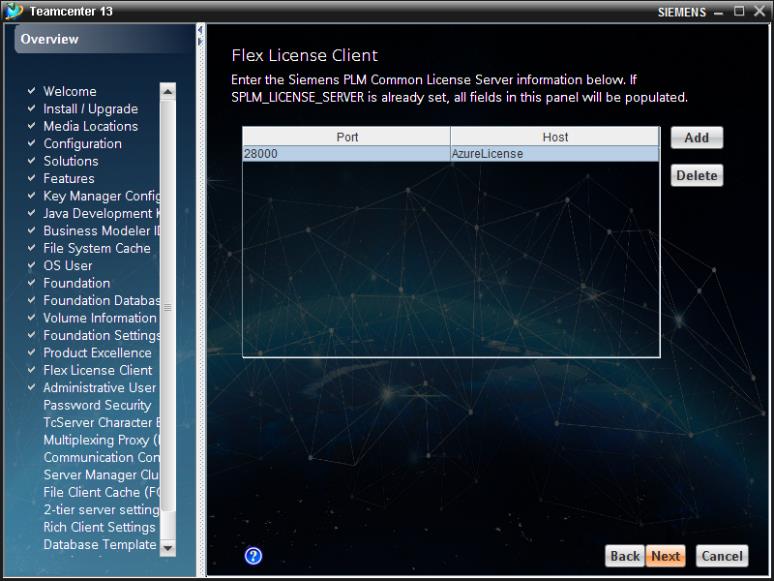
***Foundation Settings – Transientvolume***



Transient Volume Directory: C:\Temp\transientVolume\_infodba

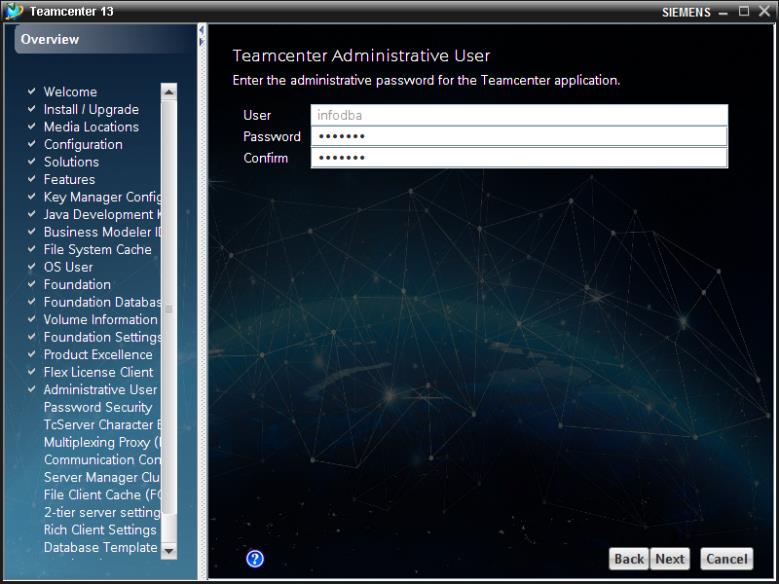




***Flex License Client***

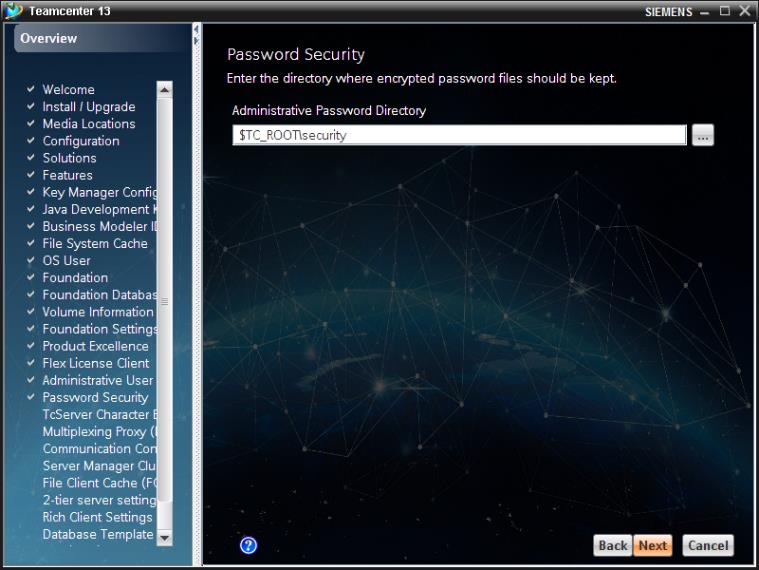
Port: 28000

Host: AzureLicense

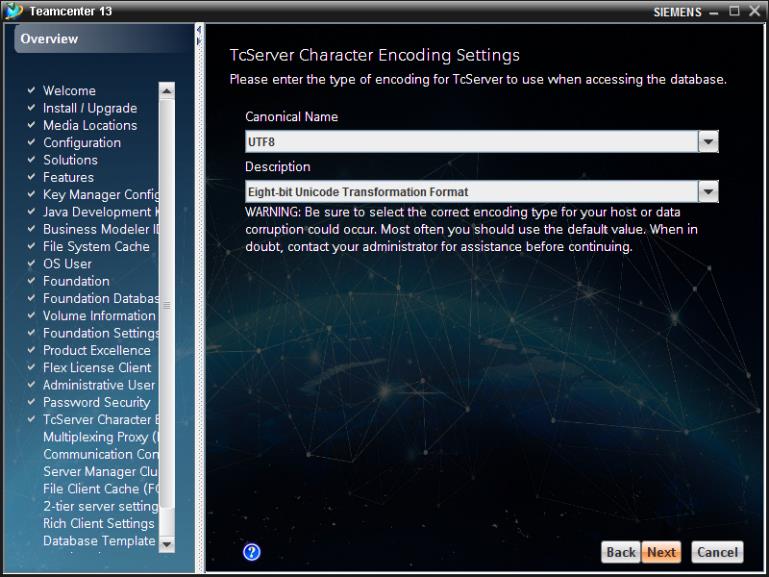
***Teamcenter Administrative User***

User: infodba

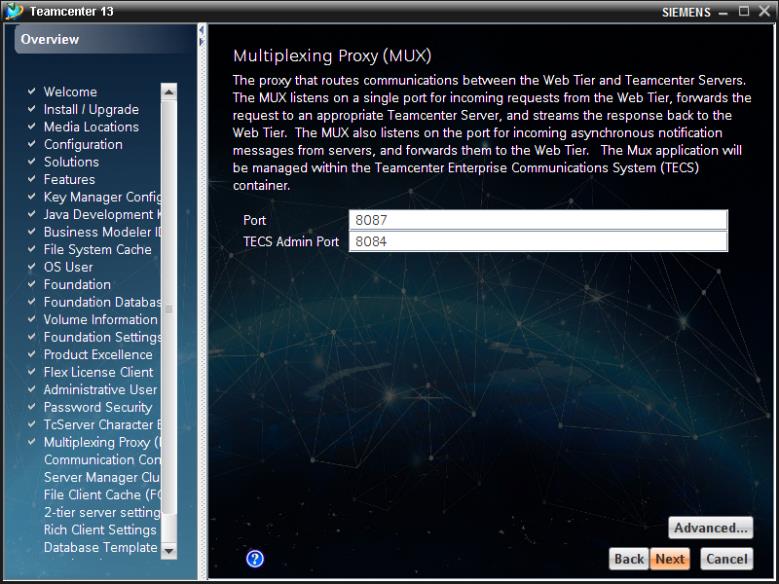
Password: infodba

***Password Security***

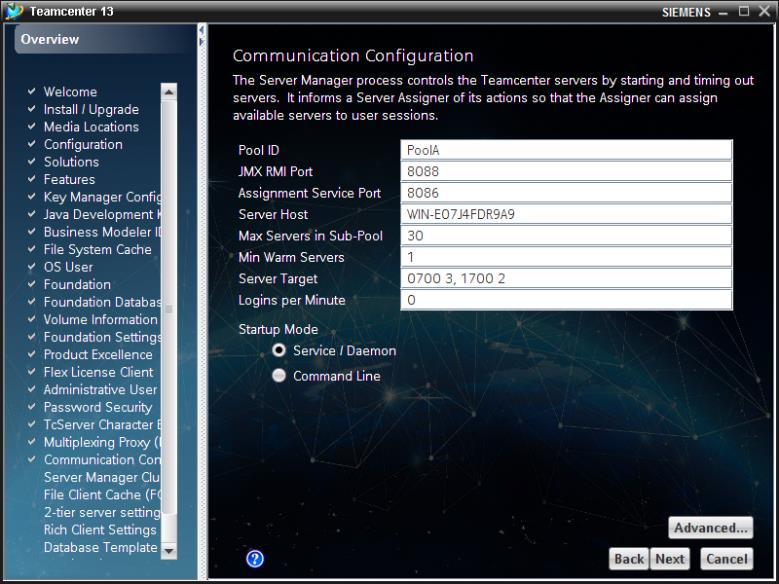
***TcServer Character Encoding Settings***



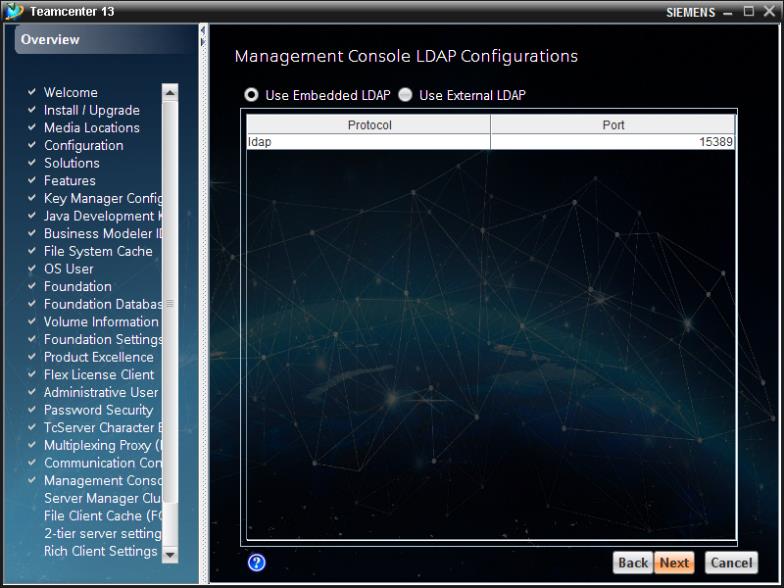
***Multiplexing Proxy (MUX)***



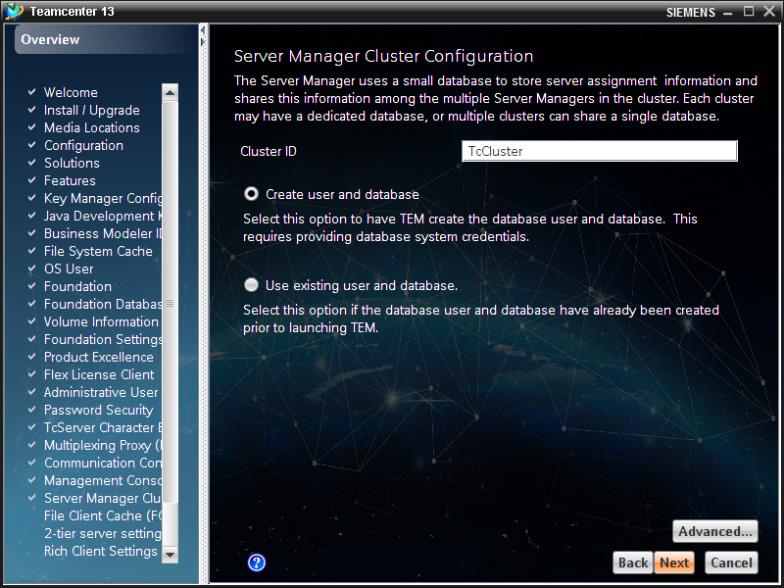
***Communication Configuration***



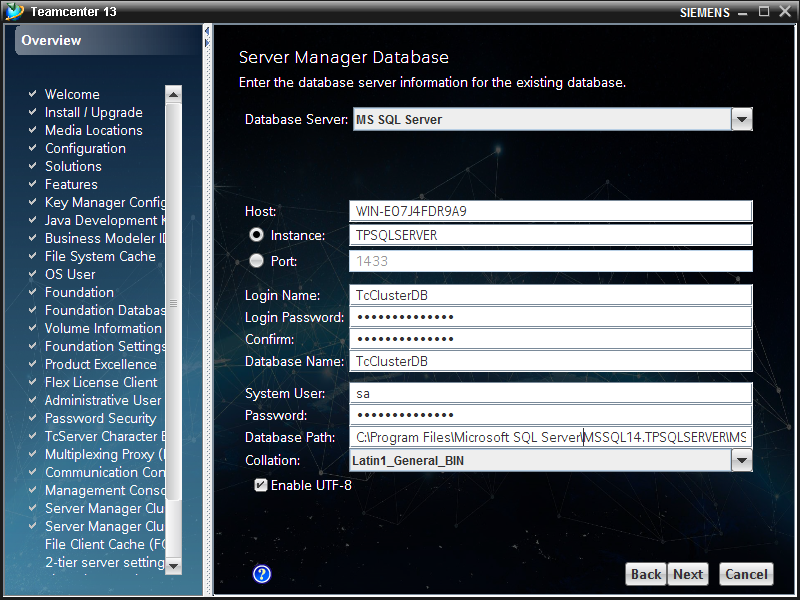
***Management Console LDAP Configurations***



***Server Manager Cluster Configuration***



***Server Manager Database***



Database Server: MS SQL Server

Host: WIN-E07J4FDR9A9

Instance: TPSQLSERVER

Login Name: TcClusterDB

Login Password: tpsqlserver17!

Database Name: TcClusterDB

System User: sa

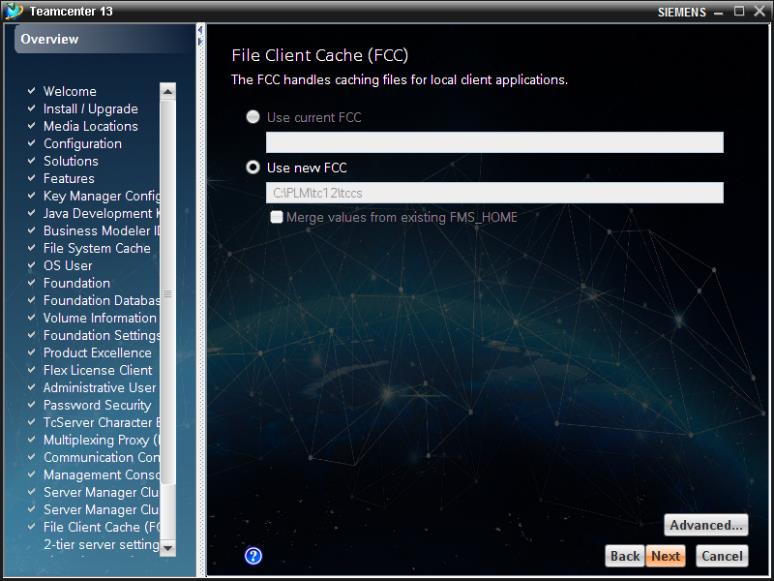
Password: TcClusterDB

Database path: C:\Program Files\Microsoft SQL Server\MSSQL14.TPSQLSERVER\MSSQL\DATA\

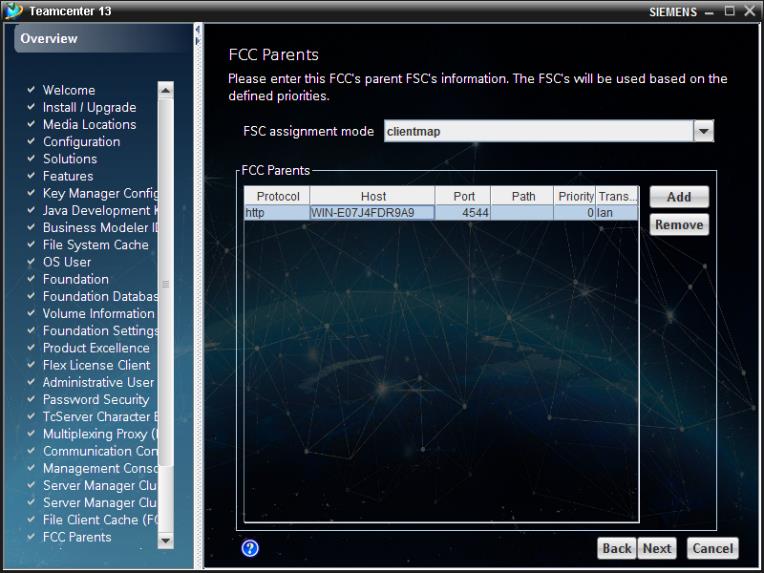
Collation: Latin1\_General\_BIN

Enable UTF-8 true

***File Client Cache (FCC)***

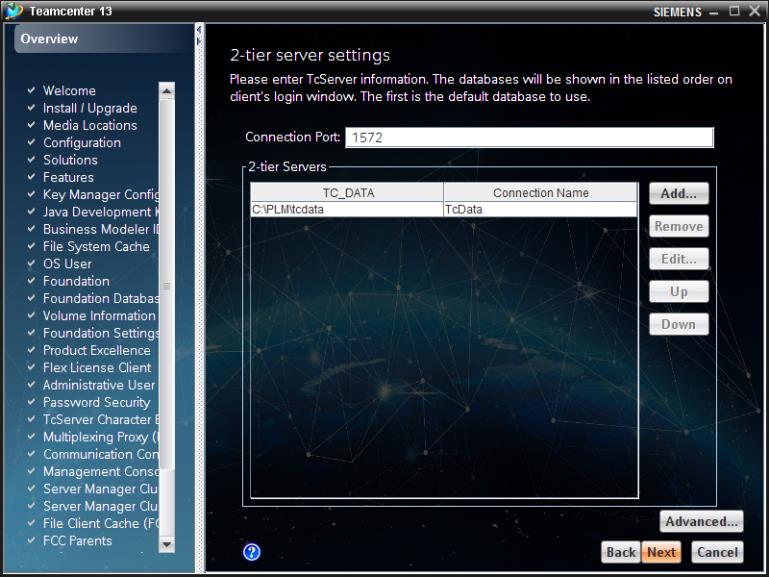


FCC Path: C:\PLM\tc101\tccs

***FCC Parents***

Host: WIN-E07J4FDR9A9

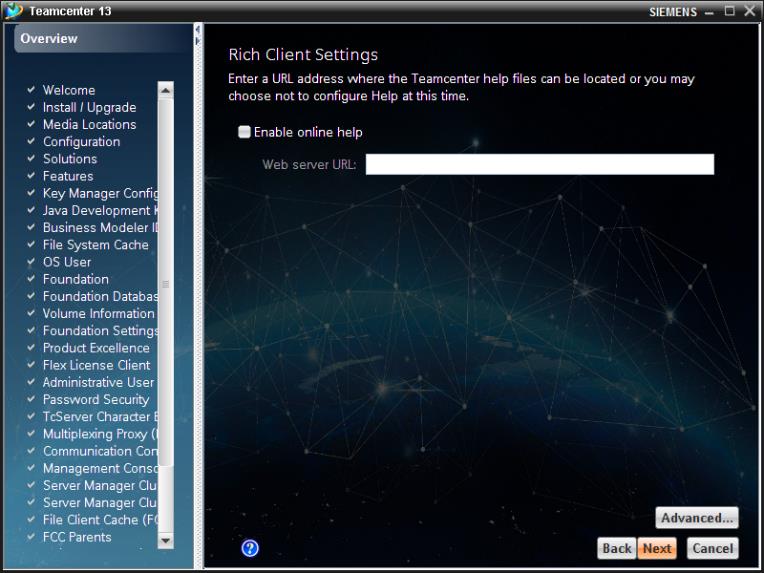
***2-tier server settings***

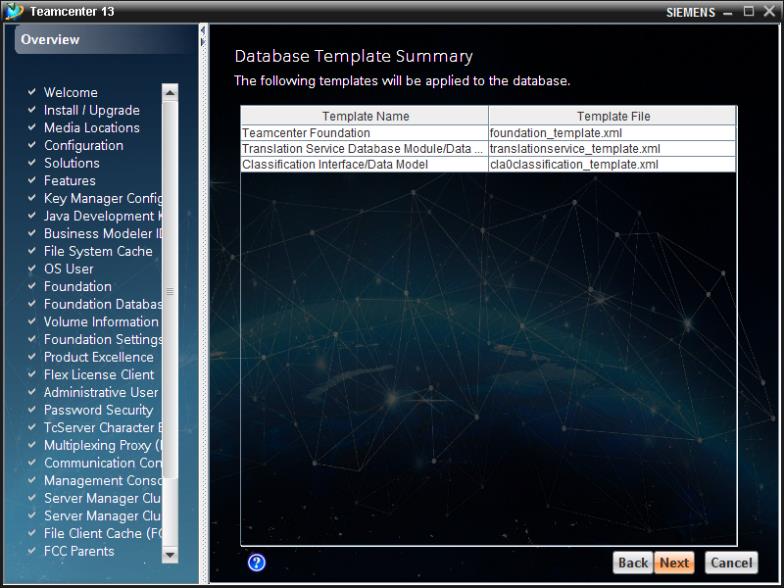


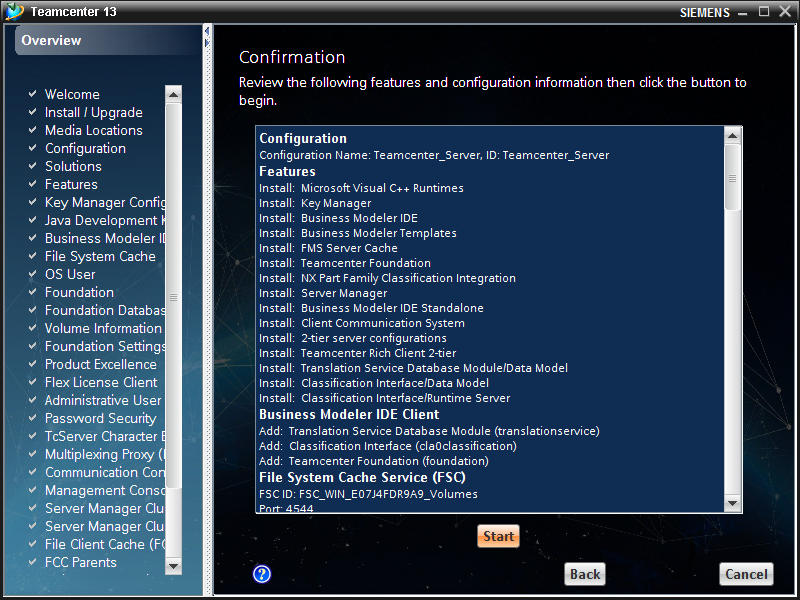
Connection Port: 1572

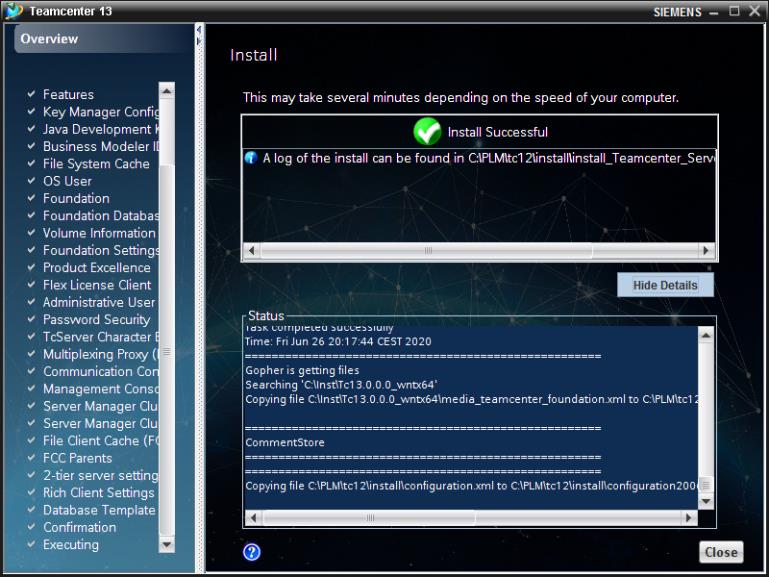
TC\_DATA: C:\PLM\tcdata

Connection Name: TcData

***Rich Client Settings***

***Database Template Summary***

***Confirmation***

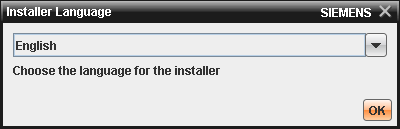
***Installation***

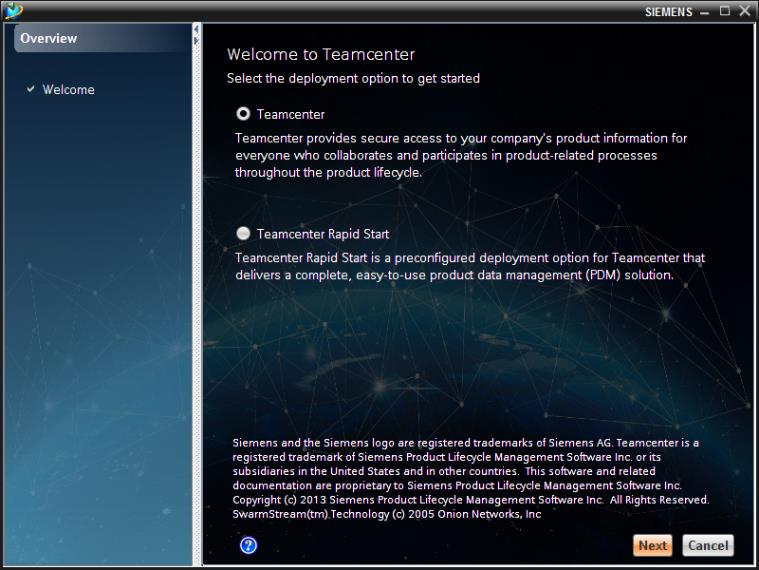
Installation 4-Tier Client

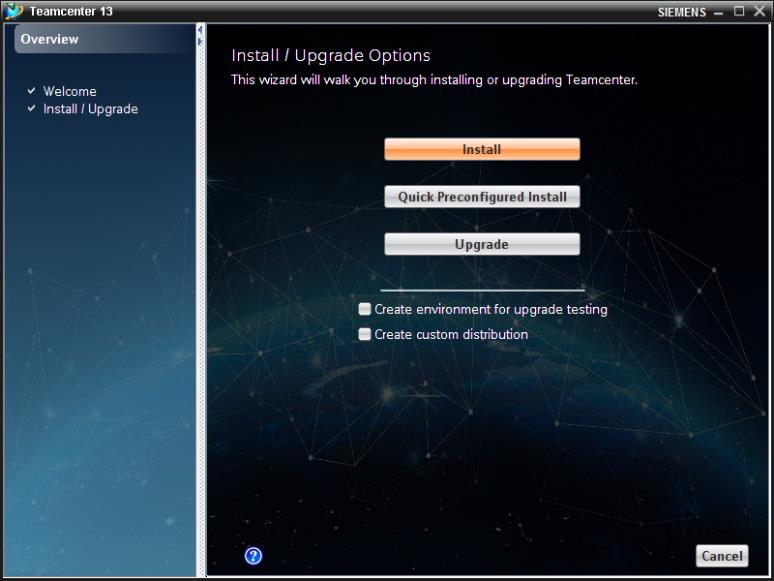
*Run command window as administrator*

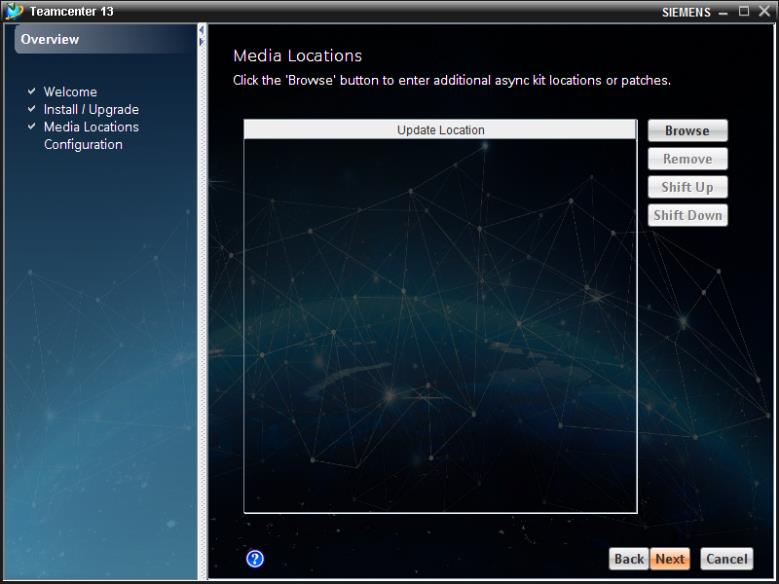
*Execute*

C:\inst\Tc13.0.0.0\_wntx64\tem.bat -jre "C:\Program Files\Java\jre1.8.0\_191"









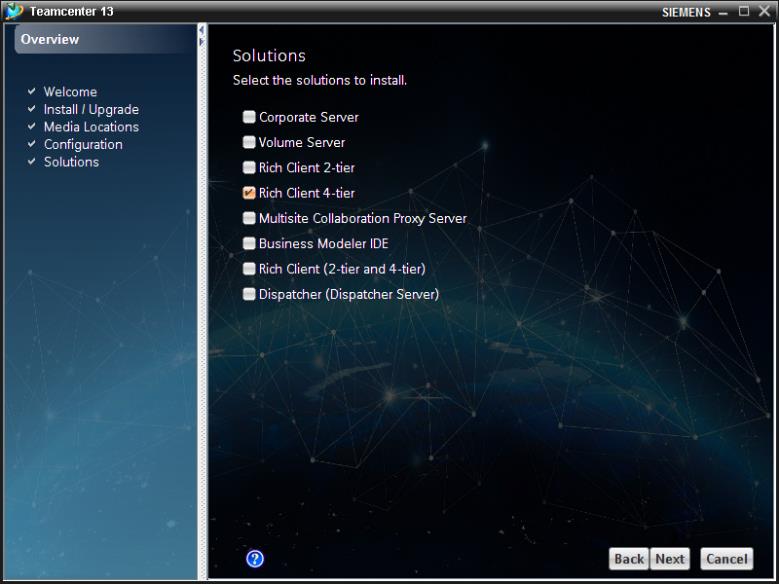
***Configuration***



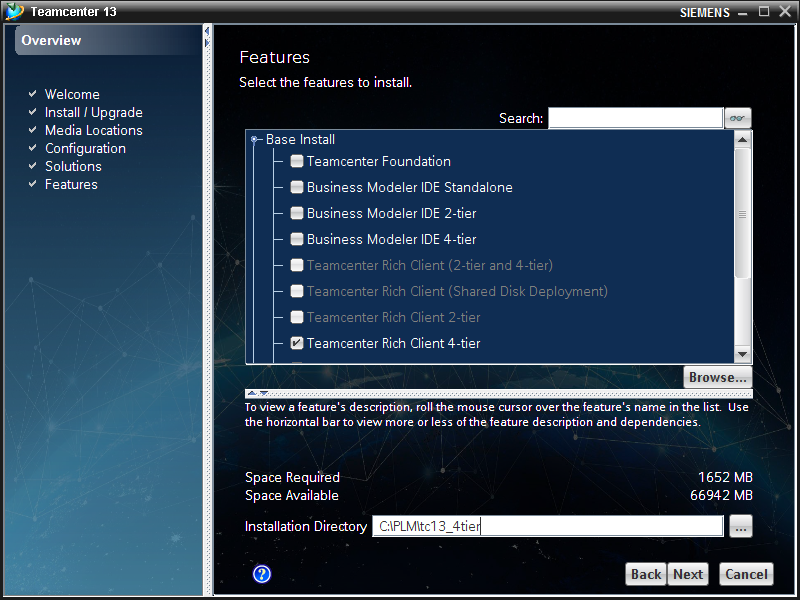
ID: Teamcenter\_4Tier\_Client

Description: Teamcenter\_4Tier\_Client

***Solutions***

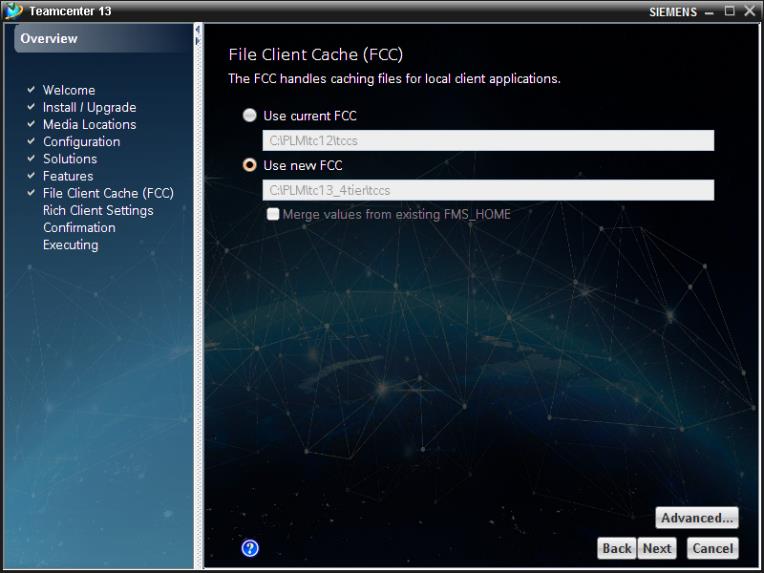


***Features***

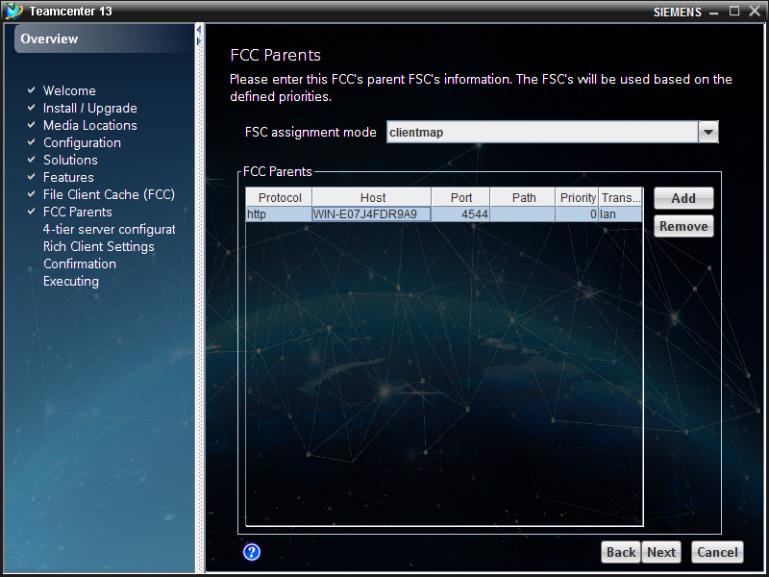


Installation Directory: C:\PLM\tc13\_4tier

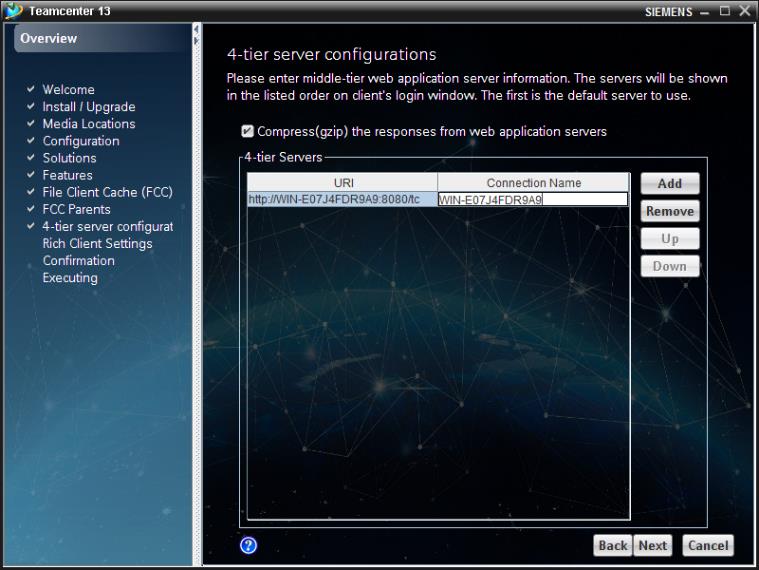
***File Client Cache (FCC)***

   
FCC Path: C:\PLM\tc13\_4tier\tccs

***FCC Parents***

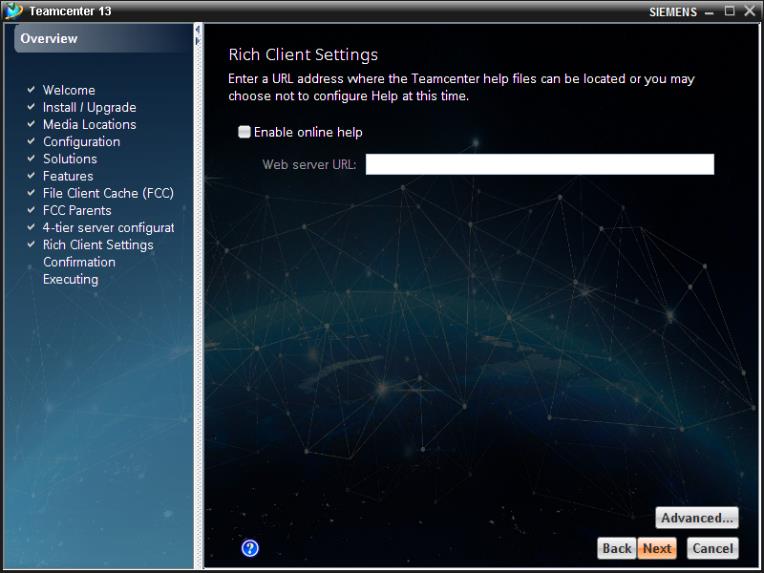
  
Host: WIN-E07J4FDR9A9

***4-tier server configurations***

  
URL: http://WIN-E07J4FDR9A9:8080/tc

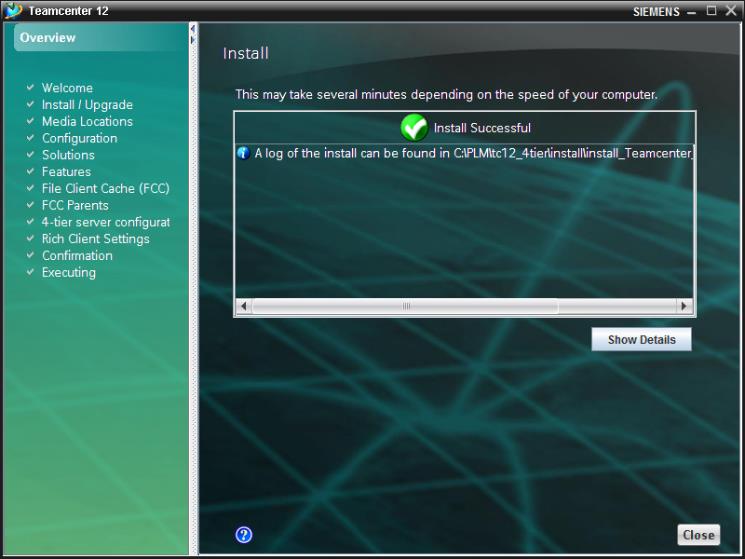
Connection Name: WIN-E07J4FDR9A9

***Rich Client Settings***



***Confirmation***

   
***Installation***



Installation Thin-Client

*Create directory*

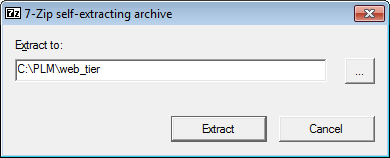
C:\PLM\web\_tier

*Execute*

C:\inst\Tc12.0.0.0\_wntx64\Web\_tier\INSTALL\_TCWEB.EXE

*Extract to*

C:\PLM\web\_tier

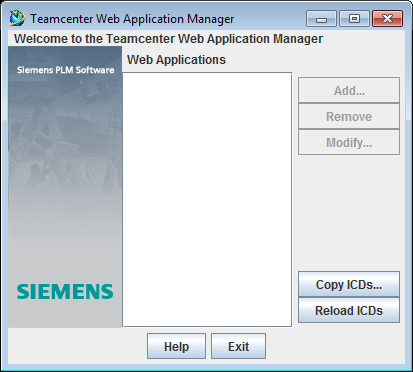


Copy the ICDs of Tc13

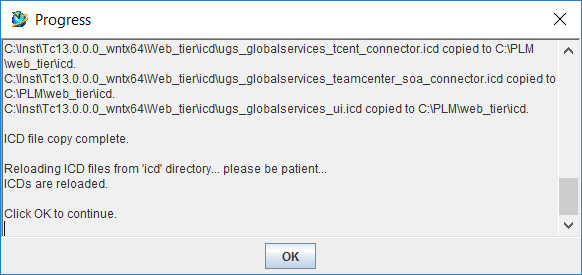
*Open command window as administrator*

*Execute*

C:\PLM\web\_tier\insweb.bat

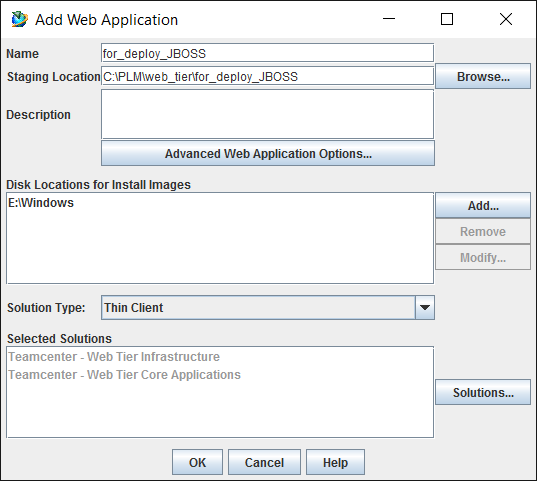
  


Source: C:\inst\Tc13.0.0.0\_wntx64\Web\_tier\icd



Add the web\_tier





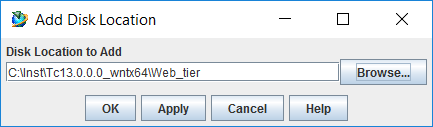
Name: for\_deploy\_JBOSS

Staging Location: C:\PLM\Web\_tier\for\_deploy\_JBOSS

Disk Locations for Install Images:

Remove E:\Windows

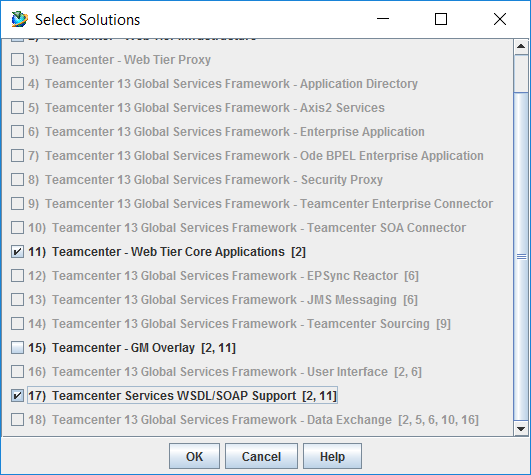
Add Tc13.0:



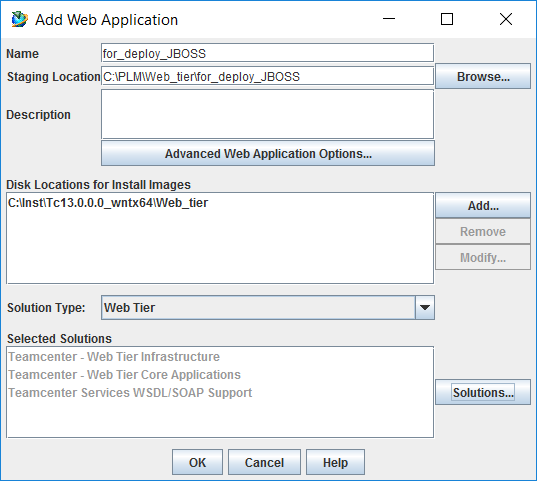
-C:\inst\Tc13.0.0.0\_wntx64\Web\_tier

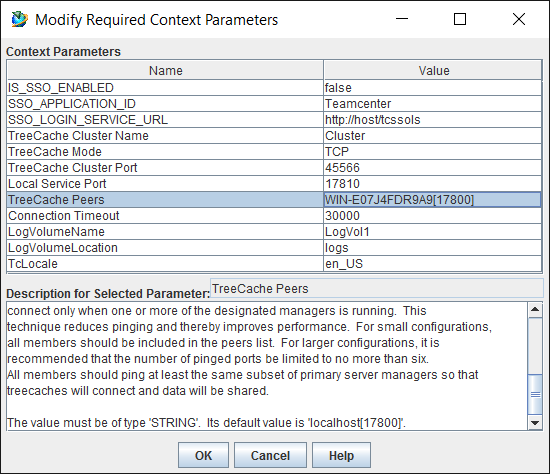
Solutions

Add Solutions

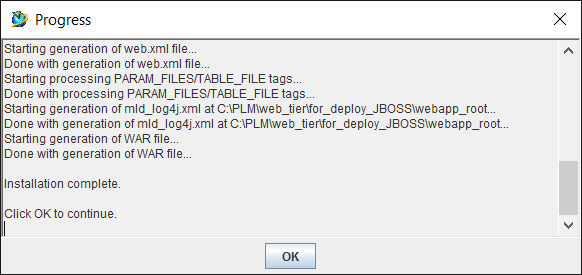


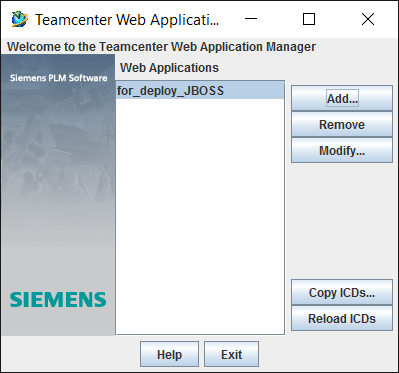
Modify Required Context Parameters





Server\_Manager\_URLs: http://WIN-E07J4FDR9A9:8086/PoolA





Installation and configuration Apache Web Application Server

Installation Tomcats

*Extract*

C:\inst\apache-tomcat-8.5.37-windows-x64.zip

*Copy content to*

C:\PLM\apache-tomcat-8.5.37

Deploy of web\_tiers

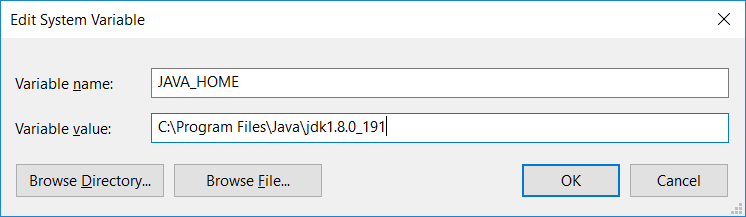
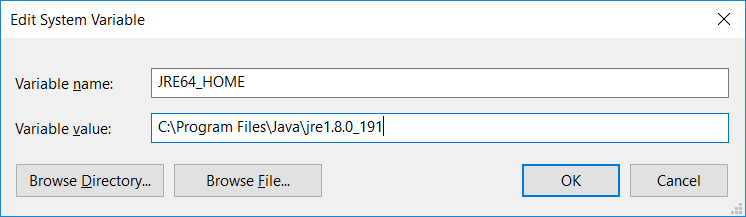
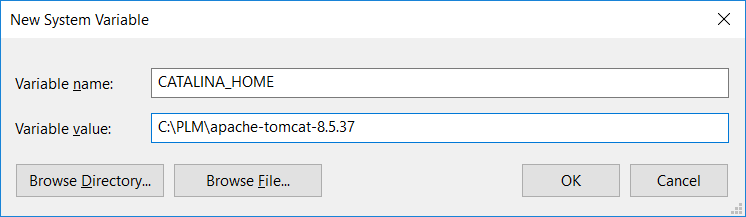
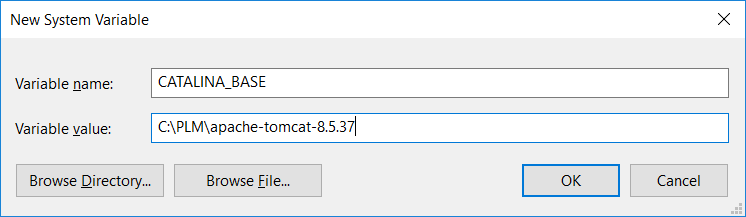
*Copy*

C:\PLM\web\_tier\for\_deploy\_JBOSS\deployment\tc.war

*to*

C:\PLM\apache-tomcat-8.5.37\webapps

Set system variables

* JAVA\_HOME = C:\Program Files\Java\jdk1.8.0\_191 
* JRE64\_HOME = C:\Program Files\Java\jre1.8.0\_191  
  
* CATALINA\_HOME = C:\PLM\apache-tomcat-8.5.37  
  
* CATALINA\_BASE = C:\PLM\apache-tomcat-8.5.37  
  

Setup

*Run CMD as administrator*

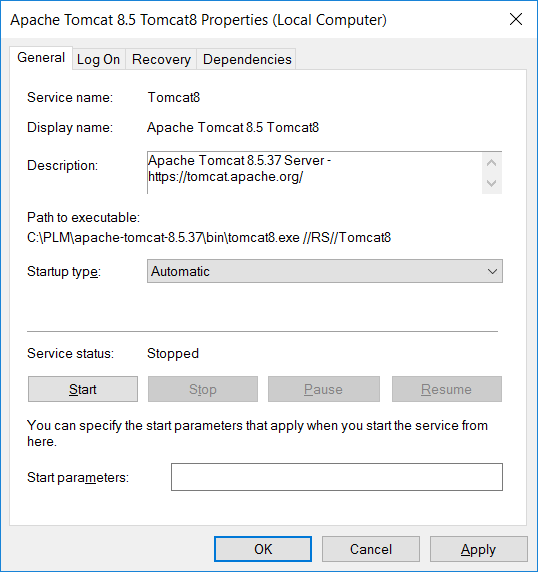
*Execute*

*C:\PLM\apache-tomcat-8.5.37\bin\service.bat install*



Automatic Service

Set service Apache Tomcat 8.5 Tomcat8 to Automatic



|  |  |
| --- | --- |
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