Fusion UEM setup Pre-requisites

POC / Testing setup on a single server/VM

- If Physical CPU: Intel Xeon / i7 Quad Core 64-bit processor
- If VM CPU: 4 vCPU Cores
- RAM: 6 GB min
- HDD Sizing: 250 GB of free disk space.
- OS: Microsoft 2016 or above
- Database: Microsoft 2017 SQL Express or above.

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Fusion UEM Server Software Requirements

- It is mandatory to install Microsoft .NET Framework 4.8 full version.
- Add Roles & Features: IIS strictly configured as per the guidelines on page no 2 STEP2 For Windows Server 2016 / R2.
- Database: Microsoft SQL Server 2017 strictly installed as per the guidelines page on 3 STEP 3: MS SQL Server Configuration.

User Credentials & User Rights Requirements

- Local or Domain User for UEM Server setup: User rights for UDM setup installation user should have Local or domain administrator privileges. (e.g. SeImpersonatePrivilege , SeCreateGlobalPrivilege, SeChangeNotifyPrivilege)

- One DB user for database Installation: User rights for database deployment DB user should have Sysadmin and dbowner rights.

Network Requirements:

- Should have 100 MBPS / 1 GBPS throughput between clients and server fully transparent without using proxy.
- TCP Port no 443 whitelisted for HTTPS communication

IIS Server Configuration

For Windows Server 2016 / R2

1. On the taskbar select Server Manager

2. Select Add Roles and Features

3. Follow the prompts until you reach Server Roles

4. Scroll up/down and tick Web Server (IIS)

This will prompt with the management tools dialog, select 'Add Features'

5. Follow the prompts until you reach 'Role Services'

6. Expand the Web Server and ensure the following is ticked to be installed:

Web Server > Common HTTP Features > Default Document, Directory Browsing, HTTP Errors, Static Content

Web Server > Performance > Static Content Compression

Web Server > Performance > Dynamic Content Compression

Web Server > Security > Request Filtering

Web Server > Application Development > ASP NET 4.5 (which will add additional features),

Web socket protocol

Management Tools > IIS Management Console

Management Tools > IIS Management Scripts and Tools

Management Tools > IIS Management service

On confirmation select 'Restart the destination server automatically if required'

Select Install

After completion of installation select Close button.

MS SQL Server Configuration

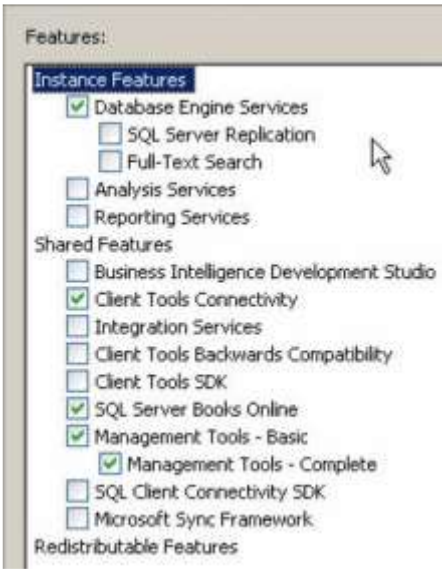
✓ Microsoft .NET Framework 4.8 full version is required to be installed

✓ Microsoft SQL 2017 and above including express editions

For assistance on 'MS SQL database configuration' please refer to this section within the guide

Once the Microsoft SQL database is installed, there are some configurations required for Fusion UDM to communicate correctly with Microsoft SQL.

Make sure that during installation of MSSQL user should be select following minimum features.



Ensure that during the installation of SQL management that the "sa" account is enabled and that you are aware of its valid credentials as this will be required during Fusion UDM installation. If you do not know the credentials for the "sa" account, please speak to your database administrator responsible for SQL.

We highly recommended you to select and create Named Instance with ID as "TCMANAGER" in instance Configuration stage.

On a default installation of Microsoft SQL, the protocols within SQL Server Configuration Manager are usually enabled, but to ensure this please check the following;

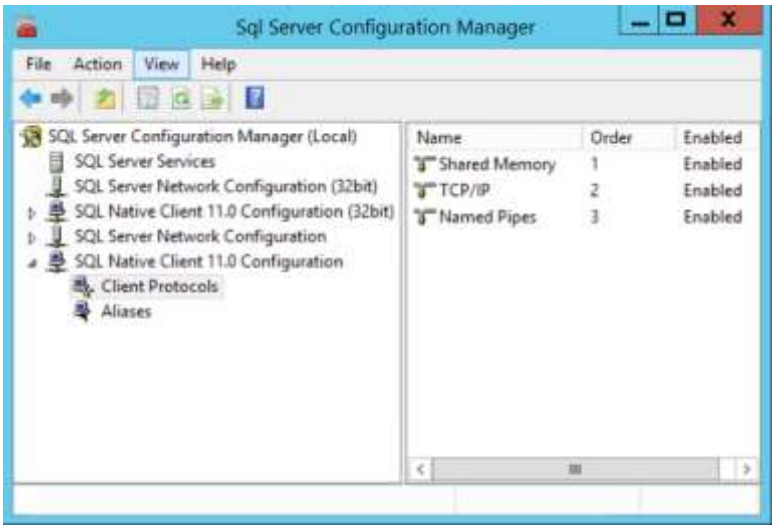
1. Open SQL Server Configuration Manager.
2. Expand SQL Native Client 10.0 Configuration module
3. Select Client Protocols
4. Right-click on each of the below and enable the following:

a. Shared Memory

b. TCP/IP

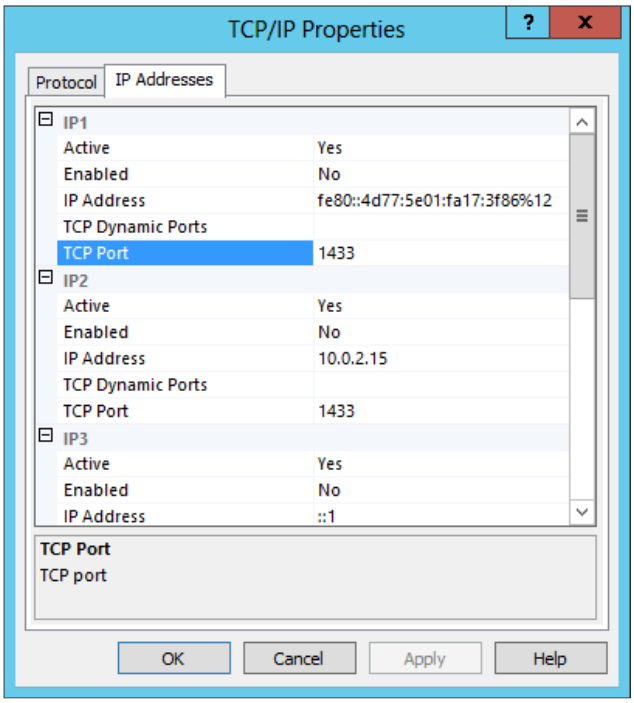
c. Named Pipes

d. VIA (if applicable)



1. The next step is to configure the protocol port to be used. Select SQL Server Network Configuration

- Select Protocols for SQL EXPRESS (this can vary depending on version of SQL installed)
- Right click on TCP/IP and Select IP Addresses.
- For IP section, change the TCP Port to 1433
- Click apply and then OK



2. Once the above has been completed a restart of the SQL server services is required

3. Select SQL Server Services. Right-click SQL Server (MSSQLSERVER) in this instance
   - Select Restart
   - Close the SQL Server Configuration Manager.

Important: Make sure while creating the database user needs to check the SYSADMIN & dbowner roles or permissions from SQL server, hence it is Mandatory