ManageEngine
M365 Manager Plus

Guide to enable HTTPS and install SSL certificate

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Document Summary

The purpose of this document is to guide you through the process of securing M365 Manager Plus by installing an SSL certificate and enabling HTTPS. In doing so, you ensure that the connection between the web browser and M365 Manager Plus server is safe from security threats such as data eavesdropping and theft.

Why do you need SSL Certification?

M365 Manager Plus can be made available over the internet making it easier for IT admins to get information about Microsoft 365 services from anywhere, anytime. To secure the communication between users' web browsers and M365 Manager Plus server, the connection between these two entities must be secured.

Secure Sockets Layer (SSL) is the de facto standard on the web for establishing an encrypted link between a server and a web browser. It ensures that all data transferred between the server and the browser remains secure.

Steps to install Certificate Authority (CA) signed certificate

To install the CA signed SSL certificates, use the instructions listed for the specific vendor below.

> **Important:** These instructions might change depending on the certificate issued by the CA.

Note: Please make sure you replace the example values given inside < >.

Step1: Add the CA signed certificates to the keystore

1. Download and unzip the certificate files, which you received from your CA.
2. Open an elevated command prompt and navigate to **<install_directory>\jre\bin** folder

   (By default: C:\ManageEngine\M365 Manager Plus\jre\bin)
3. Now, run the commands from the below list as applicable to your CA:

GoDaddy

If your CA is "***GoDaddy***", then run the following commands:

i. keytool -import -alias root -keystore **<Keystore_Name>.keystore** -trustcacerts -file gd_bundle.crt

ii. keytool -import -alias cross -keystore **<Keystore_Name>.keystore** -trustcacerts -file gd_cross_intermediate.crt

iii. keytool -import -alias intermediate -keystore **<Keystore_Name>.keystore** -trustcacerts -file gd_intermediate.crt

iv. keytool -import -alias **<Alias Specified when creating the Keystore>** -keystore **<Keystore_Name>.keystore** -trustcacerts -file **<CertificateName>.crt**

Verisign

If your CA is **"Verisign"**, then run the following commands:

i. keytool -import -alias intermediateCA -keystore **<Keystore_Name>.keystore** -trustcacerts -file **<your_intermediate_certificate_name>.cer**

ii. keytool -import -alias **<Alias Specified when creating the Keystore>** -keystore **< Keystore_Name>.keystore** -trustcacerts -file **<CertificateName>.cer**

Comodo

If your CA is "**Comodo**", then run the following commands:

i. keytool -import -trustcacerts -alias root -file AddTrustExternalCARoot.crt -keystore **<Keystore_Name>.keystore**

ii. keytool -import -trustcacerts -alias addtrust -file UTNAddTrustServerCA.crt -keystore **<Keystore_Name>.keystore**

iii. keytool -import -trustcacerts -alias ComodoUTNServer -file ComodoUTNServerCA.crt -keystore **<Keystore_Name>.keystore**

iv. keytool -import -trustcacerts -alias essentialSSL -file essentialSSLCA.crt -keystore **<Keystore_Name>.keystore**

v. keytool -import -trustcacerts -alias **<Alias Specified when creating the Keystore>** -file **<Certificate-Name>.crt** -keystore **<Keystore_Name>.keystore**

Step 2: Bind the certificates with M365 Manager Plus

This will configure the M365 Manager Plus server to use the keystore with your SSL certificate.

1. Go to the **Settings tab >Admin > General Settings > Connection**. Under Connection Type, select M365 Manager Plus [https] option.
2. Click **Save** and **shutdown** M365 Manager Plus.
3. Now open the **server.xml** file present in **<install_directory>\conf (By default: C:\ManageEngine\m365 Manager Plus\conf)** folder in a text editor of your choice.
4. Go to the end of the XML file and search for the **connector tag** (that starts like, <Connector SSLEnabled=”true” ...../>).
5. Now, edit the following values inside that connector tag:
   a: keystoreFile=”./conf/<certificate_file_name>.keystore”
   b: keystorePass=”<password>”

E.g.: <Connector SSLEnabled="true" acceptCount="100" clientAuth="false" connectionTimeout="20000" debug="0" disableUploadTimeout="true" enableLookups="false" **keystoreFile="./conf/<certificate_file_name>.keystore" keystorePass="<PASSWORD>"** maxSpareThreads="75" maxThreads="150" minSpareThreads="25" name="SSL" port="443" scheme="https" secure="true" sslProtocol="TLS"/>

6. **Save** server.xml file and close it.
7. **Restart** M365 Manager Plus again for the changes to take effect.

Steps to install P7B certificate

1: Go to the **Settings tab >Admin > General Settings > Connection.** Under **Connection Type,**

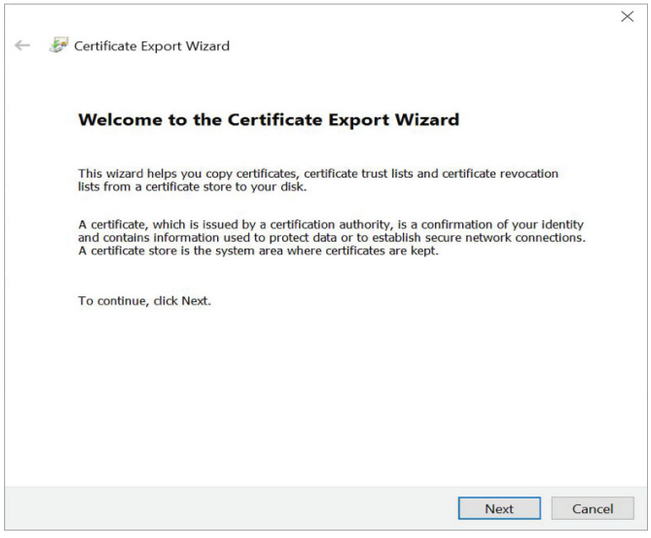
select **M365 Manager Plus [https]** option.

2: Click **Save** and then shutdown M365 Manager Plus.

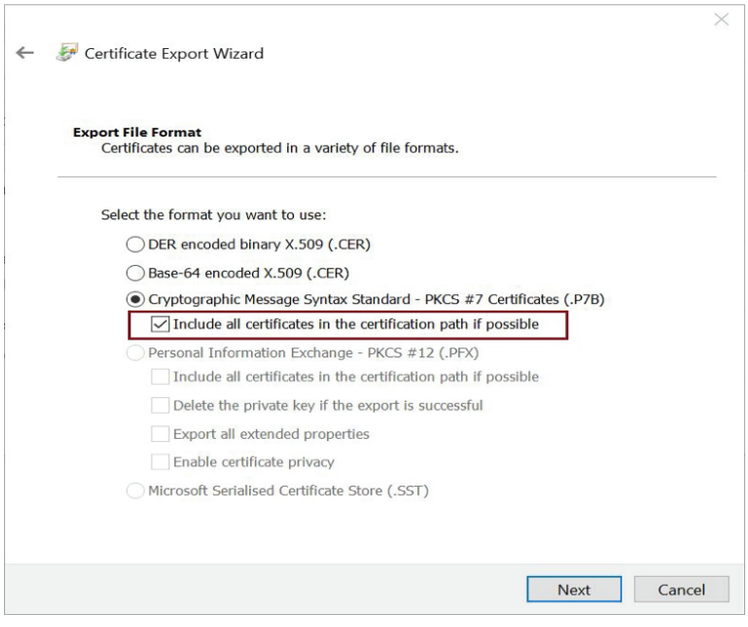
3: Double click the Domain Certificate, which has your M365 Manager Plus host/alias name.

4: In the **Details** tab, **click Copy to File.**

5: In the **Certificate Export Wizard** that appears, click **Next.**



6. Select **P7B** file format and click **Next.**



7. Type the file name or browse to export the specific file in P7B format.

8. Place the P7B file at: **<install_directory>\jre\bin** (By default: C:\ManageEngine\M365 Manager Plus\jre\bin)

9. Open an elevated command prompt and navigate to **<install_directory>\jre\bin.**

10. Execute the following command:

    Keytool -import -alias tomcat -trustcacerts -file cert.p7b -keystore <certificate_file_name>.keystore

11. Copy the keystore file to: **<install_directory>\conf** (By default: C:\ManageEngine\M365 Manager Plus\conf).

12. Back up the server.xml file.

13. Edit **server.xml** file (at <install_directory>\conf) by replacing the value of the following SSL connector tags at the bottom of the page :

"keystoreFile" with "./conf/<certificate_file_name>.keystore"

"keystorePass" with whatever password you entered in the CSR generator

Eg:

<Connector SSLEnabled="true" acceptcount="100" clientauth="false" connectiontimeout="20000" debug="0" disableupload-timeout="true" enablelookups="false" **keystorefile="./conf/<certificate_file_name>.keystore" keystorepass="<password>"** maxsparethreads="75" maxthreads="150" minsparethreads="25" name="SSL" port="9251" scheme="https" secure="true" sslprotocol="TLS" sslprotocols="TLSv1,TLSv1.1,TLSv1.2"><connector>

14. Save the changes.

15. **Restart** M365 Manager Plus and check if the certificates are installed correctly.

Steps to install wildcard certificates

Step 1: Enable SSL in M365 Manager Plus

Navigate to the **Settings tab >Admin > General Settings > Connection.** Under **Connection Settings,** select **[https]** radio button as the connection type and click **Save.**

Shutdown M365 Manager Plus.

Step 2: Export PFX/PKCS12 certificate file

Export and save your **PFX/PKCS12** file in **<install_directory>\conf**

(By default: C:\ManageEngine\M365 Manager Plus\conf) folder.

Step 3: Edit Server.xml file to include the wildcard certificate

Now open the **server.xml** file present in **<install_directory>\conf** folder in a text editor of your choice.

Go to the end of the XML file and search for the **connector tag**

(that starts like, <Connector SSLEnabled=”true” ……/>).

Now, edit the following values inside that connector tag:

keystoreFile=”./conf/<certificate_file_name.pfx>”

keystorePass=”<password>”

keystoreType=”PKCS12”

E.g.: <Connector SSLEnabled="true" acceptCount="100" clientAuth="false" connectionTimeout="20000" debug="0" disableUploadTimeout="true" enableLookups="false" **keystoreFile="./conf/<certificate_file_name>.pfx" keystorePass="PASSWORD" keystoreType="PKCS12"** maxSpareThreads="75" maxThreads="150" minSpareThreads="25" name="SSL" port="443" scheme="https" secure="true" sslProtocol="TLS"/>

Step 4: Start M365Manager Plus.