Configuring SSL for PasswordManagerPro using Microsoft CA.

Step 1: Create a certificate template that allows you to export the private key.

Logon to the CA and launch the certificate authority MMC



Manage the certificate templates

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File Action View Help		
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Certification Authority (Local) Cartification Authority (Local) Cartificates Cartificates Cartificates Certificates Certificates Certificate Templates	Manage New	Name PMP MDM Dev Web Serve Man Web St VMware 1 Exchange CEP Enct PSec (Off
	View 🕨	Domain Cor
	Refresh	🚇 Web Ser

Duplicate template , web server certificate as a Windows Server 2008 Enterprise template and give the template a new Name, example - PMP.

Edit the template security to allow the PMP server to request a certificate

Full Control	
Read	
Write	
Enroll	
Autoenroll	

On the request handling tab check "allow private key to be exported" and click OK to save the template

Properties of New	w Template 🛛 🗙
Issuance Requir General Rec	ements Superseded Templates Extensions Security juest Handling Cryptography Subject Name Server
Purpose:	Signature and encryption
	Delete revoked or expired certificates (do not archive)
	Include symmetric algorithms allowed by the subject
	Archive subject's encryption private key
	Use advanced Symmetric algorithm to send the key to the CA.
Authorize a	dditional service accounts to access the private key
Key Permis	sions
Rilow privat	e key to be exported
Do the following associated with	g when the subject is enrolled and when the private key this certificate is used:
🖲 Enroll subje	ct without requiring any user input
C Prompt the	user during enrollment
C Prompt the private key	user during enrollment and require user input when the is used
	OK Cancel Apply Help

Close the "manage template" window and then publish the certificate template to the CA by right clicking in the certificate template pane and selecting New\Certificate Template to Issue



Select the template you just created and click OK Log off the CA

Step 2: Issue the certificate to the PMP server.

Logon to the PMP server and open a new MMC

Add the certificates template to the MMC and target the computer account.



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5nap-in	Vendor	~	-	Console Root
Active Directory Site ActiveX Control ADSI Edit AUthorization Manager Certificate	Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor	=		
Component Swices Computer Managem Device Manager Disk Management	Microsoft Cor Microsoft Cor Microsoft Cor Microsoft and		Add >	
🛃 Event Viewer	Microsoft Cor			



elect the computer you w	want this snap-in to manage
This snap in will always r	manage:
al cost computer: (th	manage.
Cocar computer. (th	e computer this console is furning onj
O Another computer:	Browse
oniy applies ir you sa	ave the console.

Request a new certificate in the computers personal store

onsole Root		Issued To	3 4 3	Issued By
Certificates (Local Con Personal Contificator)	nputer)	🛱 pmp		Issuing CA 01
Trusted Root C	All Tasks		•	Request New Certificate 🛛 💥
Enterprise Trust	View			Import
Intermediate Control Stress	New Win	dow from Here		Advanced Operations
Untrusted Certi	New Task	pad View		192

Click Next on the welcome screen and Next on the enrolment screen

Select the template you created in step 1

Request Certificates		
You can request the following ty lick Enroll.	vpes of certificates. Select the certificates you want to	o request, and then
Active Directory Enrollment	Policy	
Computer	③ STATUS: Available	Details
СРМР	③ STATUS: Available	Details
More information is	STATUS: Available required to enroll for this certificate. Click here to co	Details onfigure settings
MP More information is	(i) STATUS: Available required to enroll for this certificate. Click here to co	Details
More information is	(i) STATUS: Available required to enroll for this certificate. Click here to co	Details
More information is	(i) STATUS: Available required to enroll for this certificate. Click here to co	Details

Add the Alternative name as the DNS name of the server

Subject	General	Extensions	Private Key	Certification Authority	Signature
'he subject an enter in an be usec ubject of c 'he user or	of a certi formatio in a cert certificate	ficate is the n about the t ificate.	user or comp types of subj	outer to which the certi ect name and alternativ	ficate is issued. Yo ve name values tha
ubject nan	ne:	r anders rece	aving the cen		
Type:					
Full DN		~	Add	>	
Value:			< Rem	ove	
lternative	name:				
Туре:					
Value: pmp.myd	omain.cc	ım	Add	>	
			< Rem	love	

Add a friendly name and description to help identify the certificate later when exporting it

		C	ertificate P	Properties	×
🛕 Subject	General	Extensions	Private Key	Certification Authority	Signature
A friendly n Friendly nar	ame and me:	description	will make it e	asier to identify and us	e a certificate.
PMPWebC	ert				1
Description	:				
PMP Web	Certificate	e used for SS	L connection	to the PMP Server	
				OK Car	ncel Apply

Click Enroll

ive Directory Enrollment Policy Computer Image: Status: Available Details PMP Image: Status: Available Details Remote Desktop Computer Image: Status: Available Details Image: Available Desktop Computer Image: Status: Available Details Image: Available Desktop Computer Image: Status: Available Details Details Image: Available Desktop Computer Image: Status: Available Details Details Image: Available Details Details Image: Status: Available Details Details	ou can request the following types o ick Enroll.	f certificates. Select the certificates you want t	o request, and then
Computer STATUS: Available Details PMP STATUS: Available Details Remote Desktop Computer STATUS: Available Details More information is required to enroll for this certificate. Click here to configure settings. Details	Active Directory Enrollment Policy	r	
PMP Image: Status: Available Details Remote Desktop Computer Image: Status: Available Details Image: More information is required to enroll for this certificate. Click here to configure settings. Details	Computer	i) STATUS: Available	Details
Remote Desktop Computer	PMP	(1) STATUS: Available	Details
	Remote Desktop Computer More information is requir	STATUS: Available ed to enroll for this certificate. Click here to co	Details onfigure settings.

Step 3: Export the certificate and it's private key

Click next on the welcome screen and select the "Yes, export the private key" radio button and click Next.

Sertificate Export Wizard
Export Private Key You can choose to export the private key with the certificate.
Private keys are password protected. If you want to export the private key with the certificate, you must type a password on a later page.
Do you want to export the private key with the certificate?
○ No, do not export the private key
Next Cancel

Accept the defaults and click next

Check the "Password" box and enter a password - this password will be used when configuring the PMP web service so make sure you record this securely. We can even store a copy of this key in the PMP configuration of course

🥭 Cei	rtificate Export Wizard
Export Ci	t File Format ertificates can be exported in a variety of file formats.
Se	elect the format you want to use:
	O DER encoded binary X.509 (.CER)
	O Base-64 encoded X.509 (.CER)
	O Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
	Include all certificates in the certification path if possible
	Personal Information Exchange - PKCS #12 (.PFX)
	Include all certificates in the certification path if possible
	Delete the private key if the export is successful
	Export all extended properties
	O Microsoft Serialized Certificate Store (.SST)
	Next Cance

Set the output filename

	X
📀 🍠 Certificate Export Wizard	
File to Export Specify the name of the file you want to export	
File name:	
D:\Install\openSSL\test222.pfx	Browse
	Next Cancel

Click finish to export the certificate with the associated private key

🛞 🍠 Certifi	cate Export Wizard		X	
Comj	pleting the Certificate Exp	oort Wizard		
You hav	You have successfully completed the Certificate Export wizard.			
You hav	e specified the following settings:			
File Na	ime	D:\Install\openSSL\test22.pfx		
Export	: Keys	Yes		
Inclua: File Fo	e all certificates in the certification path whet	Tes Personal Information Exchange (* of v		
<	ш	>		
		80 <mark>.800 - 100000</mark>		
		Finish Can	cel	
		NZ		

Step 4: Configure PMP to use the new certificate.

Stop the PMP service if it's running

Copy the exported certificate file to the PMP/conf folder

Make a copy of the existing server.xml so you can roll back to the previous version if you need to

Edit the server.xml as follows

Locate the line keyword keystoreFile="conf/server.keystore" keystorePass="passtrix"

Change it to use the certificate you exported in step 2. keystoreFile="conf/test22.pfx" keystorePass="Password8" add the keystoreType just after the keystorePass attribute keystoreType="PKCS12" Save the file Start the PMP server