Creating Windows CA Code Signing Certificate for WSUS

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1.0 Code Signing Certificates.

The purpose of code signing is a method to prove the origin of an item of software that came from a trusted source and that it has not been tampered since it was released by applying a digital signing to the software package.

In the case of Windows updates, the update files that sync from Microsoft to your WSUS Server are already digitally signed by the vendor, as is all device drivers from hardware vendors, and all software that you may download from other trusted software vendors. The Windows operating requires that these items are all digitally signed before it will permit their installation.

How this applies to the Software Vulnerability Manager System is all patches that are delivered to your SVM console are delivered as an SPS Package ready to be created into an install package for deployment, with certain configuration options.

During the creation of an installation package that is to be deployed to your client machines, the WSUS Server digitally signs the packages that are created before publishing them to your WSUS server, ready for deployment using either WSUS or SCCM.

When an update or a patch is installed the client machine verifies that the software has come from a trusted source by checking its digital signature, if it isn't digitally signed or if the certificate to which a package was created using has expired the software will fail to install.

It is quite critical for the functionality of the SVM System that certificates are created and applied to the WSUS correctly to prevent publishing issues.

There are three ways of doing this, the first being is to obtain a code signing certificate from an external Trusted Certificate issuer, but this can be expensive, and this would only be required if you were wanting to make your WSUS Server public on the Internet. We will not cover this scenario in this document as it is a highly unlikely scenario.

The second is on Windows enterprise networks that run a root Certification Authority to request a code signing certificate from the Root CA. We will cover this scenario in this document.

The third method is to use a WSUS self-signed certificate generated by the WSUS server itself using the SVM connection tool contained in the console plugin.

Note: If using a self-signed certificate, you will need to distribute the certificate to the client machines using a GPO, this is covered later in this document.

Important Note:

Creation and management of certificates will require a user with Administrative Privileges on the domain.

2.0 How to generate a Windows CA Code Signing Certificate for WSUS Code Signing Purposes.

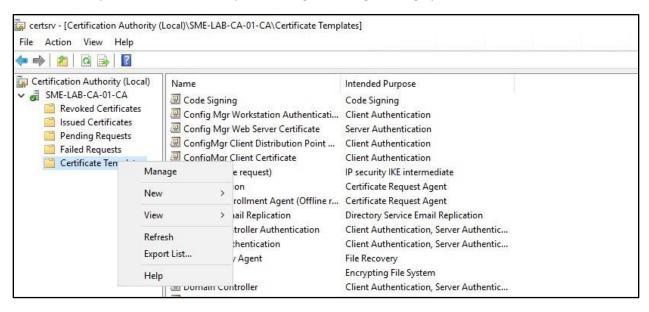
The process of creating a Code Signing Certificate is in two parts, the first part is the configuration that will need to be undertaken is on the Windows RootCA Server, and the second part is the requesting of the certificate from the RootCA on the WSUS Server. Please ensure you have administrative access to both of these servers before continuing.

2.1 Windows Root CA Server

Connect to your Windows RootCA server and navigate to the Certificate Authority Console.

🙀 certsrv - [Certification Authority File Action View Help	(Local)]		-	×
 Certification Authority (Local) SME-LAB-CA-01-CA Revoked Certificates Issued Certificates Pending Requests Failed Requests Certificate Templates 	Name	Description Certification Authority		

The first thing we need to do is to create a code signing certificate template, we achieve this by selecting certificate templates in the left-hand pane and right-clicking to bring up the menu.



Now click on "Manage" and this will bring up the Certificate Templates Console

3.0 Certificate Template Console

Once the Template console has loaded look for the Code Signing template that is in the Templates list

🗵 Certificate Templates Console				— (D)	Х
File Action View Help					
🔶 🌒 🔲 🗐 🗐 📷					
😨 Certificate Templates (sme-lab-	Template Display Name	Schema Version	Versi ^	Actions	
	R Administrator	1	4.1	Certificate Templates (sme-lab-dc01.simon.lab)	*
	Real Authenticated Session	1	3.1	More Actions	
	Basic EFS	1	3.1		
	🐵 CA Exchange	2	106.0	Code Signing	
	Reference CEP Encryption	1	4.1	More Actions	×
	Code Signing	1	3.1		
	🖳 Computer	1	5.1		
	🚇 Config Mgr Web Server Certificate	2	100.1		
	Real Config Mgr Workstation Authentication	2	100.3		
	ConfigMgr Client Certificate	2	100.6		
	ConfigMgr Client Distribution Point Certi	2	100.8		
	Record Cross Certification Authority	2	105.0		
	Directory Email Replication	2	115.0		
	Domain Controller	1	41		

Right Click on the Code Signing Template, and select "Duplicate Template" as shown below

🚇 Certificate Templates Console				- 0	×	
File Action View Help						
🖳 Certificate Templates (sme-lab-i	Template Display Name	Schema Version	Versi ^ A	ctions		
🚇 Administrator		1	4.1 C	Certificate Templates (sme-lab-dc01.simon.lab)		
	Real Authenticated Session	1	3.1	More Actions	•	
Reasic EFS		1	3.1		35	
	/碅 CA Exchange 碅 CEP Encryption			ode Signing	•	
			4.1	More Actions		
	Code Code Code Code Code Code Code Code	1	3.1			
	a con	1	5.1			
	Cont All Tasks >	2	100.1			
	Conf Properties	2	100.3			
	- Com -	2	100.6			
	Cont Help	. 2	100.8			
	Cross ceruncation Authority	2	105.C			
	Replication	2	115.0			
	Domain Controller	1	4.1			
	Real Domain Controller Authentication	2	110.C			
	EFS Recovery Agent	1	6.1			

Once you click Duplicate Template, the template configuration will display.

3.1 Certificate Template Configuration

There are several tabs within the template configuration that you need to set the first tab to pop up will be the compatibility tab as below:-

Subject 1	lame	Sen	ver	Issuance F	lequirements
Superse	ded Templa	ates	Exte	nsions	Security
Compatibility	General	Request	Handling	Cryptography	Key Attestation
versions set	in Compati	bility Settin nges		the earliest op	erating system
	on Authorit			_	
Window	s Server 2	003		~	
Certificat	e recipient				
Window	s XP / Ser	ver 2003		\sim	
These settin template.	gs may not	: prevent e	arlier opera	iting systems fro	m using this

Compatibility Tab

- No changes are required on this tab, please click on the general tab and see below
- Click on Apply

000,0001	Vame	Ser	ver	Issuance R	equirements
Superse	ded Templa	tes			Security
Compatibility	General	Request	Handling	Cryptography	Key Attestation
Template dis	play name:				
WSUSCert					
Validity perio	d:		Renewa	l period:	
				• • •	
5 yea	irs 🗸	4	6	weeks ~	
				cate certificate e	exists in Active

General Tab

- Give the certificate template a name, in this case, I have just used "WSUSCert" as the name.
- Set the validity period. I have used 5 years, but this can be set to a period of your choice, it makes sense to use a long validity time as this ensures all your published patches will continue to work for a long period.
- Click on Apply

Subject Na	me	Server	Issuance R	equirements
Supersede	d Templates		tensions	Security
ompatibility		equest Handling		Key Attestation
omponionity	Jonora		s cryptography	1007720000000
Purpose:	Signature			~
	Delete	revoked or exp	pired certificates (d	lo not archive)
	Include	symmetric alg	orithms allowed by	the subject
			yption private key	
Allow priva	te key to be e	exported		
Renew wit	h the same k	ey (*)		
	atic renewal o annot be crea		ertificates, use the	existing key if a
associated wit	h this certifica	ate is used:	ed and when the	private key
O Enroll subje	ect without re	quiring any use	er input	
Prompt the	user during e	enrollment		
O Prompt the private key	user during e is used	enrollment and	require user input 1	when the
* Control is dis	abled due to	compatibility se	ettings.	
	ОК	Cancel	Apply	Help
		100		
perties of N	ew remplat	e		
Supersede	d Templates	P	densions	Security
		quest Handlin		Key Attestation
Subject Na		Server		Requirements
25. 				
Supply in the second	ie request			
	bject informat Il requests (*)		ng certificates for a	autoenrollment
D d d c				
		rectory informa		
	ption to enfo ficate adminis		y among subject r	names and to
Subject nar				
Common n			6-0	-
	e-mail name i	n subject name	9	
Include		12	ingt name:	
	information in	n alternate sub	eurname.	
		n alternate sub	ect name.	
Include this	ame	n alternate sub	ect name.	
Include this	ame me		ou name.	
Include this	ame me ncipal name (UPN)	eu name.	
Include this	ame me	UPN)	eu name.	
Include this	ame me ncipal name (UPN)	ect name.	
Include this	ame ncipal name (principal nam	UPN)		

Request Handling

- Check Allow Private Key to be exported, this is very important that it is ticked.
- And select "Prompt the user during enrollment"
- Click on Apply

Subject Name

- Select "Common Name" in "Subject name format"
- Only select UPN in the checkboxes below
- Click on Apply

			dling		Key Attestation
	Subject Name Server Superseded Templates E				equirements Security
Superse	ded lempla	ates	Exter	nsions	Security
Group or us	er names:				
Admini:	n Admins (S	SMELAB\Domai (SMELAB\Ente		and the second se	
Demissions	6 A 4b	iicated Users		Add	Remove
Full Contr		licated Users		Allow	Deny
Read	OI				
Write					
Enroll					E L
Autoenrol	I				
For special p	permissions	or advanced se	ettings	, click	Advanced

Compatibility	General	Request	Handling	Cryptography	Key Attestation
Subject I	Name	Serv	/er	Issuance R	equirements
Superse	ded Templa	ates	Exte	ensions	Security
Basic C	ncluded in tion Policies onstraints ate Templat æ Policies	this templat s	te:		
Description				2 	Edit
Description Signature re Digital signa Critical exte	equirements ature				Edit

Security Tab

- Make sure you allocate permissions for a specific user or user group to be able to Read & Enroll, this example shows authenticated users with these permissions
- Click Apply

Extensions Tab

• Select Key Usage and then edit and see the next screen.

Subject	Name	Ser	ver	Issuance R	equirements
Compatibility	General	Request	Handling	Cryptography	Key Attestation
Cupomo	dad Tamal	ataa	Exte	ensions	Coourity
Edit Key Us	age Exten	sion			×
Specify the extension.	required <mark>s</mark> ig	inature an	d security o	ptions for a key	usage
Signature					
Digital	signature				
Signat	ure is proof	of origin (r	nonrepudia	tion)	
	ate signing	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10			
CRL si	igning				
Encryption		nge withou	it key encr	vption (key agree	ement)
Allow	key exchar	nge only w	ith key end	ryption (key enc	iphement)
	Allow encr	votion of u	iser data		

Make th	is extension	critical			
- marco un	io chiorior	- ontrodi			
			C	К	Cancel
			-		

Edit Key Usage

- Make sure that "Digital Signature" & "Make this Extension Critical" are both checked
- Click Ok on the box, or cancel if no changes need to be made.
- Click on Apply on the Extensions Tab

Once this part is complete you can now close the Certificate Templates console, and return to the CA Console, the next part is we need to issue the template so that it becomes available to the users to be able to request a certificate.

3.2 Certificate Authority Console – Issuing Template.

Right click on the Certificate Templates, Select New then select Certificate Template to Issue

Þ 🔿 [🖄] 🗟 🗟	2		
 Revoked Certificates Issued Certificates Pending Requests 		me	Intended Purpose
		Code Signing	Code Signing
		Config Mgr Workstation Authenticati	. Client Authentication
		Config Mgr Web Server Certificate	Server Authentication
		ConfigMgr Client Distribution Point	Client Authentication
Certifica		ConfigMgr Client Certificate	Client Authentication
	Manage	Offline request)	IP security IKE intermediate
	New	> Certificate Template to Issu	Request Agent
		ige en onnenengene (onnne m	. Certificate Request Agent
	View	> pry Email Replication	Directory Service Email Replication
	Refresh	n Controller Authentication	Client Authentication, Server Authentic
		os Authentication	Client Authentication, Server Authentic
	Export List	covery Agent	File Recovery
	Help	IFS	Encrypting File System
	11 7994	Domain Controller	Client Authentication, Server Authentic

3.2 Certificate Templates - Issuing Template

Once you have selected New Certificate Template to Issue, the list of available templates will be displayed as per below, in the list find the name of the template you have just created, select it and click ok.

ote: If a certificate template that formation about this template ha	 enable on this Certification Authority. was recently created does not appear on this list, you may s been replicated to all domain controllers. e organization may not be available to your CA. tificate Template Concepts. 	r need to wait until	
Name	Intended Purpose		^
Response Signing	OCSP Signing		
RAS and IAS Server	Client Authentication, Server Authentication		
Router (Offline request)	Client Authentication		
R Smartcard Logon	Client Authentication, Smart Card Logon		
R Smartcard User	Secure Email, Client Authentication, Smart Card Logon		
💀 Trust List Signing	Microsoft Trust List Signing		
🖳 User Signature Only	Secure Email, Client Authentication		
Web Server V2	Server Authentication		
Workstation Authentication	Client Authentication		
R WSUSCert	Code Signing		

Your new template will now appear in the Certificate Templates container in the main Certification Authority Console

iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	(Local)\SME-LAB-CA-01-CA\Certificate Temp	lates]	
Certification Authority (Local) Certification Authority (Local) SME-LAB-CA-01-CA Revoked Certificates Issued Certificates Pending Requests Failed Requests Certificate Templates	Name WSUSCert Code Signing Config Mgr Workstation Authenticati Config Mgr Web Server Certificate ConfigMgr Client Distribution Point ConfigMgr Client Certificate IPSec (Offline request) CEP Encryption	Intended Purpose Code Signing Code Signing Client Authentication Server Authentication Client Authentication Client Authentication IP security IKE intermediate Certificate Request Agent	

This completes what needs to be done on the CA, you can now log off your CA Server as you should not need to connect to it again during this process unless you have a domain certificate policy that requires Certificates to be approved on the CA.

4.0 Requesting a WSUS Code Signing Certificate

The next part needs you to log on to your WSUS Server, the first thing that we need to do is to open an MMC Console.

100 H	Google Chrome	LogTool
	🖾 Run	×
F	Dpen:	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
	de Martin	This task will be created with administrative privileges.
FI Pa		OK Cancel Browse
	\$	

Right Click on the Start menu and select run

When the MMC Console has started, select File then Add/Remove Snap-in

File Action View Favorites W	indow Help	
New	Ctrl+N	
Open	Ctrl+O	
Save	Ctrl+S	
Save As		There are no items to show in this view.
Add/Remove Snap-in	Ctrl+M	
Options		
1 C:\Windows\system32\winsmg	ımt	
2 C:\Windows\system32\devmg	nt	
3 C:\Program Files\\wsus		
4 C:\Windows\system32\compn	igmt	
Exit		

4.1 Adding the certificates Snap-in

Console I	You can select snap-ins for t extensible snap-ins, you car Available snap-ins:			on your computer and configure the se enabled. Selected snap-ins:	elected set of snap-ins. For
	Snap-in Active Directory Do Active Directory Rig Active Directory Site Active Directory Use Active Directory Use Active X Control ActiveX Control ADSI Edit Certificate Templates Certificates Certificates Component Services Computer Managem	Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor	Add >	Console Root	Edit Extensions Remove Move Up Move Down
	Description: The Certificates snap-in allo	Microsoft Cor	the contents of	of the certificate stores for yourself, a	Advanced

Add the Certificates snap-in

Check "My User Account" and click "Finish"

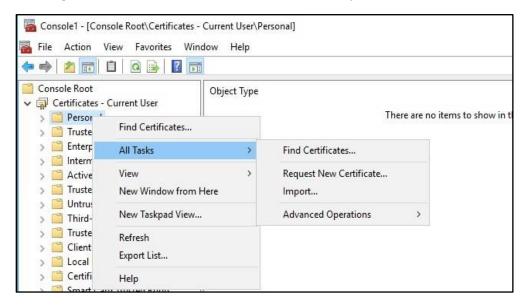
The statement of	del as Pamaus Saan ins	
Console I	Certificates snap-in X	: of snap-ins. For
	My user account Service account Computer account	Edit Extensions
		Move Up Move Down
		Advanced
E	< Back Finish Cancel	r a computer.

4.2 Requesting the Code Signing Certificate

To request the certificate, first select the "Personal" folder in the left-hand pane of the Certificates console.



Right click on the "Personal" folder and select "Request New Certificate"



The certificate enrollment Wizard will now start, once the following screen appears click "Next"

	-3		×
Certificate Enrollment			
Before You Begin			
The following steps will help you install certificates, which are digital credentials networks, protect content, establish identity, and do other security-related tasks.		ect to wi	eless
Before requesting a certificate, verify the following:			
Your computer is connected to the network You have credentials that can be used to verify your right to obtain the certificate			
	Next	Ca	ncel

4.2 Requesting the Code Signing Certificate

By default the Active Directory Enrollment Policy is present, you should not need to make any changes on this section, please click "Next

	-	- 🗆	
Certificate Enrollment			
Select Certificate Enrollment Policy			
Certificate enrollment policy enables enrollment for certificates Certificate enrollment policy may already be configured for you		cate templa	ites
Configured by your administrator			-
Active Directory Enrollment Policy			*
Configured by you		Add	Ne
	Next	-	nce

When the types of certificates box appear, look for the Certificate Template you created earlier on the CA, and Check the Template, it should be showing as per the box below. Click on "Enroll"

Request Certificates				
You can request the following types of certif click Enroll.	icates. Select the certificates you wan	t to request,	and then	
Code Signing	i STATUS: Available	D	etails 🗙	1
EFS Recovery Agent	i STATUS: Available	D	etails 🗸	
Exchange Enrollment Agent (Offline request)	(j) STATUS: Available	D	etails 🗙	
A More information is required to e	enroll for this certificate. Click here to	configure se	ttings.	
User	i) STATUS: Available	C	etails 🛩	
WSUSCert	i STATUS: Available	D	etails 💙	1
Show all templates				

When you have clicked Enroll you will be shown the results of your request, it should show succeeded.

tificate Enrollment		
ificate Enrollment		
ertificate Installation Re	sults	
he following certificates have b	een enrolled and installed on this computer.	
Active Directory Enrollment	Policy	
WSUSCert	✓ STATUS: Succeeded	Detai

4.2 Requesting the Code Signing Certificate

Your new Code Signing Certificate will now appear in the "Personal\Certificates" folder as below

• 🔿 🚈 📰 📋 🗎 🛛 🔂 🖬						
Console Root	Issued To	Issued By	Expiration Date	Intended Purposes	Actions	
Certificates - Current User Certificates - Current User	Administrator	SME-LAB-CA-01-CA	02/04/2022	Code Signing	Certificates	
 Certificates Trusted Root Certification Autho Enterprise Trust Intermediate Certification Autho Active Directory User Object Thrusted Publishers Untrusted Certificates Third-Party Root Certification Au Trusted People Client Authentication Issuers Local NonRemovable Certificates Smart Card Trusted Roots 					More Actions	
>	1			>		

5.0 Exporting the Certificate.

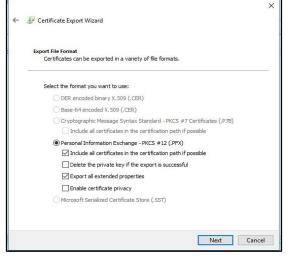
The next part of the process we need to export the certificate to a file along with its private key, click on certificate to select it then right click, and select "All Tasks" then "Export"

rtificates - Current User				
Personal Administration Open Open All Tasks Request Certificate with New Key Cut	ole Root	Issued To	^	Issued By
Open All Tasks Request Certificate with New Key Cut	Personal	Administration	Open	ME-LAB-CA-01-CA
			All Tasks	>
			100	
Advanced Operations > Delete	Advanced Operations	>	Delete	
Export Properties	Export		Properties	

5.1 Certificate Export Wizard.





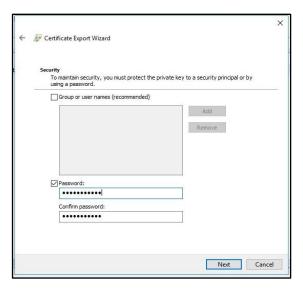


• To continue, click "Next"

- Select "Yes, export the Private Key"
- Click "Next"

- Make sure "Include all certificates in the certification path" is selected.
- Make sure "Export all Extended Properties is selected.

5.1 Certificate Export Wizard.



3	irowse
E	irowse
E	Browse
	Next

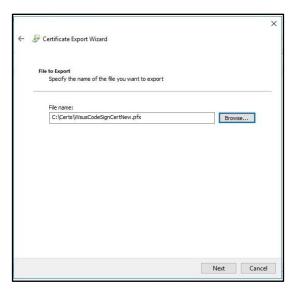
Search Certs p IEE • 0 Type Siz ch.
fied Type Siz
×
×

• Type a password and confirm it and Click "Next"

• Click "Browse"

 Select a location to save the certificate, I would suggest creating a folder on C:\ and saving it there.

5.1 Certificate Export Wizard.



Completing the Certificate Export Wizard You have successfully completed the Certificate Export wizard. You have specified the following settings: The Name C1/Certs/WsusCodeSignCertNew.pfx Export Keys Yes Include all certificates in the certification path Yes File Format Personal Information Exchange (*,pfx)	You have successfully completed the Certificate Export wizard. You have specified the following settings: File Name C:{Certa}WausCodeSignCertNew.pfx File Stame Yes Include all certificates in the certification path Yes File Format Personal Information Exchange (*,pfx)	1	Certificate Export Wizard	
You have specified the following settings: File Name C:\Certa\WsusCodeSignCertNew.pfx Export Keys Yes Include all certificates in the certification path Yes File Format Personal Information Exchange (*,pfx)	You have specified the following settings: File Name C:\Certa\WausCodeSignCertNew.pfx Export Keys Yes Include all certificates in the certification path Yes File Format Personal Information Exchange (*,pfx)		Completing the Certificate Exp	port Wizard
File Name C:\Certa\WsusCodeSignCertNew.pfx Export Keys Yes Include all certificates in the certification path Yes File Format Personal Information Exchange (*,pfx)	File Name C:\Certs\WausCodeSignCertNew.pfx Export Keys Yes Include all certificates in the certification path Yes File Format Personal Information Exchange (*.pfx		You have successfully completed the Certificate	Export wizard.
Export Keys Yes Include all certificates in the certification path Yes File Format Personal Information Exchange (*,pfx	Export Keys Yes Include all certificates in the certification path Yes File Format Personal Information Exchange (*,pfx		You have specified the following settings:	
Include all certificates in the certification path Yes File Format Personal Information Exchange (*,pfx;	Include all certificates in the certification path Yes File Format Personal Information Exchange (**,pfx)		File Name	C:\Certs\WsusCodeSignCertNew.pfx
File Format Personal Information Exchange (* pfx	File Format Personal Information Exchange (**,pfx)		Export Keys	Yes
			Include all certificates in the certification path	Yes
< >>	٢		File Format	Personal Information Exchange (*.pfx

Completing the Certificate E	Export Wizard	
You have successfully completed the Certific	ate Export wizard.	
You have specified the following settings:		1.
File Name Export Keys	Certificate Export Wizard X	fx
Include all certificates in the certification p File Format	The export was successful.	pf
	ОК	
<	UK)

With the filename and path completed click "Next"

Check what is displayed looks ok and click "Finish"

• You should now get a message saying that your Certificate Export was successful

6.0 Importing Certificate into WSUS / SCUP

PKI generated certificates can only be imported into WSUS using a PowerShell Script

Open up Powershell as Administrator on your WSUS Server.

- 1. Open up PowerShell as Administrator on your WSUS server, or Software Update Point of SCCM.
- 2. Run the following to set the WSUS server and its configuration to an object.

```
[Reflection.Assembly]::LoadWithPartialName("Microsoft.UpdateServices.Administration")
$updateServer = [Microsoft.UpdateServices.Administration.AdminProxy]::GetUpdateServer()
$config = $updateServer.GetConfiguration()
```

3. Next, run this snippet to set the new code signing certificate.

\$config.SetSigningCertificate("<Path to pfxFile>", "<PFX file password>")

Bear in mind, this will be a file with both the public and private keys (pfx usually). You'll need to replace the path and private key password within the placeholder values in quotes.

4. Now save the changes.

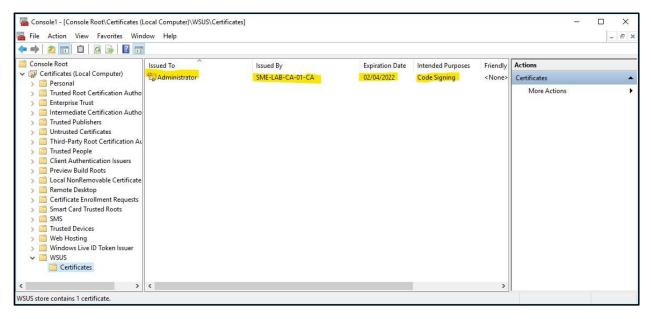
\$config.Save()

You will need to resync your Software Update Point to make the certificate display in the SCUP Configuration.

7.0 Troubleshooting

Certificate Stores (WSUS Server)

If you have been running with a WSUS Self Signed Certificate and are looking to move to using a PKI Certificate generated from your Enterprise Windows CA, once you have installed the certificate as above, please check the WSUS Certificate Store for the Local Computer Account, to make sure you are only showing the one certificate in the WSUS Certificate in this store and this should be the Certificate you have generated from your CA this Certificate should should show you have the Private Key that corresponds to the certificate, there should be no other certificates in this store, also check that the certificate is appearing in Trusted Publishers without the Private Key.



WSUS Certificate store for Local Computer Account



Showing Private Key

7.0 Troubleshooting.

Software Update Point

If you are having difficulties with syncronisation, sometimes this can be caused by the software update point not importing the certificate into the SCUP which it does during syncronisation.

To resolve this you need to open the SUP and remove all the classifications, then resync the SUP it might take a couple of goes to get it to work, it will start a sync import the certificate as there are no classifications to sync.

You can check that the certificate is the correct one by checking the Third Party Updates tab in the SCUP configuration to see if the certificate has changed to the correct one.

Once it appears re-enable your classification and resync the SCUP.

The two logs to check for the above issues are "wsyncmgr.log" and "wcm.log"

Third Party Updates WSUS Maintena	cations Products Sync Schedule Supersedence Rules Languages ance Maximum Run Time	
Enable third-party software updat	tes	
If you enable this option, you can su Update Services (WSUS), and depl	ubscribe to third-party update catalogs, publish their updates to Windows Server loy them to clients.	
Learn more about third-party softwar	re updates.	
WSUS signing certificate configura	ation	
Configuration Manager can automa to manually configure the certificate	atically manage the third-party WSUS signing certificate, or you can choose e.	
Leam more.		
O Configuration Manager manage	es the certificate	
Manually manage the certificate	e	
Current WSUS signing certificate	details CN=SME-LAB-CA-01-CA, DC=simon, DC=lab	
Thumborint:	23DA9C1BE1317999914E1078C53F9CC7FC6BBD9F	
manopina.	02/04/2022 10:18:23	
Expiration Date:		

SCUP Showing PKI Certificate after Software Update Syncronisation