# How to setup MSCA with Symantec Mobility | iOS

# Deploy a MSCA (Microsoft Certificate Authority) Server:

**Note:** The Enterprise Windows Server 2008 R2 box must be a member of an Active Directory domain. A production off-box RabbitMQ server is required. To deploy a HA (High Availability) RabbitMQ server see <u>HOWTO110356</u>. This document assumes that the admin has already created an MDM, Code-signing, Provisioning profile and APNS certificates. See the Mobility A to Z document and relevant sections for step-by-step instructions on creating these certificates prior to continuing with this article.

1. From AD create a new user:

w Object - User					×
🤱 Create in:	smmglobal.ne	et/Users			
First name:	SCEP		Initials:		
Last name:	Account				
Full name:	SCEP Accoun	t			
User logon name:					
scep_service_accou	nt	@smmglob	al.net	•	]
User logon name (pre	Windows 2000	):			
SMMGLOBALNETV		scep_servio	ce_account		_
		< Back	Next >		Cancel

2. Set a static password for this user account as the NDES (Network Device Enrollment Service) will use this account to enroll users:

New Object - User	×
Create in: smmglobal.net/Users	
Password: Confirm password:	
User <u>m</u> ust change password at next logon	
User cannot change password      Password never expires      Account is disabled	
Account is disabled	
< Back Next > C.	ancel
	ancer

- 3. Click **Next** and **Finish**.
- 4. Add the user to the Cryptographic\_Operators, Cert Publishers and IIS\_USERS groups; by rightclicking on the user and selecting **Add to group**:

Select Groups		? ×
Select this object type:		
Groups or Built-in security principals		Object Types
Erom this location:		
smmglobal.net		Locations
Enter the object names to select ( <u>examples</u> ):		
Cryptographic Operators; IIS_IUSRS; Cert Publishers		<u>C</u> heck Names
		1
Advanced	OK	Cancel

- 5. Log into the future MSCA server as a **Domain Administrator**.
- From Start > Run enter: lusrmgr.msc

### Adding a user to the machine's local IIS\_USERS group

7. From the User Manager Console, add the SCEP user to that machine's local **IIS\_USERS** group:

💀 lusrmgr - [Local Users and Grou	ıps (Local)\Groups]		
File Action View Help			
🗢 🔿 🖄 📅 🔀 🖬 🕹	? 🖬		
🛃 Local Users and Groups (Local)	Name Description	Actions	
Users	Administrators Administrators have o	Groups	<b>_</b>
Groups	Backup Operators     Backup Operators can     Backup Operators can     Backup Operators can     Backup Operators can     Backup Operators     Backup Op	n override secu n are allowed t More Actions	•
	Cryptograf IIS_IUSRS Properties	?×	_
	Distributed General	USRS	
	& Event Log	lore Actions	•
	MIS IUSRS		
	Network Co		
	Performant	Select Users, Computers, Service Accounts, or Groups	? ×
	Power Use	Select this object type:	
	Print Opera Members:	Users, Service Accounts, or Groups Object Type	s
	Remote De	From this location:	
	A Users	smmglobal.net Locations.	.
		Enter the object names to select (examples):	
		SCEP Account (scep service account@smmglobal.net) Check Nam	es
		Advanced OK Cance	
	Add Remove	Changes to a user's group membership	
	Henove	user logs on.	
	ок С		

- 8. Click **OK** to apply the settings.
- 9. Open the **Server Management Console** from **Start > Run** by entering: servermanager.msc
- 10. Under Server Manager right-click on **Roles** and select **Add Roles**:

Add Roles Wizard	<u>×</u>
Before You Begin	
Before You Begin Server Roles Confirmation Progress Results	<text><text><list-item><list-item><list-item><text></text></list-item></list-item></list-item></text></text>
	< Previous Next > Install Cancel

11. Click **Next**, from the next window check **Active Directory Certificate Services** and **Next** to continue.

Add	Roles	Wizard

Select Server Rol	es	
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Certificate Request Certificate Database Confirmation Progress Results	Select one or more roles to install on this server.     Roles <ul> <li>Active Directory Certificate Services</li> <li>Active Directory Pederation Services</li> <li>Active Directory Federation Services</li> <li>Active Directory Rights Management Services</li> <li>Application Server</li> <li>DHCP Server</li> <li>DHS Server</li> <li>File Services</li> <li>Print and Document Services</li> <li>Veb Server (IIS)</li> <li>Vindows Server Update Services</li> <li>Vindows Server Update Services</li> </ul>	Description: Active Directory Certificate Services (AD CS) is used to create certification authorities and related role services that allow you to issue and manage certificates used in a variety of applications.
	Previous Next	> Install Cancel

X

- 12. Next through the Introduction page and on the Select Role Services page ensure that only Certificate Authority is checked and Next.
- 13. Select Enterprise and Next to continue.

**Note:** If the enterprise option is greyed out, this machine is either not a member of the domain, the user account is a local account or this is not an Enterprise version of Windows 2008 R2.

14. The CA type is important, if there is an existing MSCA in the environment, it is recommended to set this up as a Subordinate CA. If there is no CA in the environment the Root CA option is acceptable. Follow below whether Root or Subordinate is selected.

#### **Root CA Option:**

15. Select **Root CA** and **Next**. From the Private Key section select **Create a new private key** and **Next** to continue:

Add Roles Wizard		X
Set Up Private Ke	ey	
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	<ul> <li>To generate and issue certificates to clients, a CA must have a private key. Specify whether you want to create a new private key or use an existing one.</li> <li>Create a new private key</li> <li>Use this option if you don't have a private key or wish to create a new private key to enhance security. You will be asked to select a cryptographic service provider and specify a key length for the private key. To issue new certificates, you must also select a hash algorithm.</li> <li>Use existing private key</li> <li>Use this option to ensure continuity with previously issued certificates when reinstalling a CA.</li> <li>Select a certificate and use its associated private key</li> <li>Select this option if you have an existing certificate on this computer or if you want to import a certificate and use its associated private key.</li> <li>Select an existing private key on this computer</li> <li>Select this option if you have retained private keys from a previous installation or want to use a private key from an alternate source.</li> </ul>	æ
	More about public and private keys	
	< Previous Next > Install Cancel	

16. Select **SHA256** for the key's signing algorithm and **2048** or **4092** for the character length.

#### Add Roles Wizard

Configure Crypto	graphy for CA
Before You Begin Server Roles AD CS Role Services Setup Type CA Type	To create a new private key, you must first select a cryptographic service provider, hash algorithm, and key length that are appropriate for the intended use of the certificates that you issue. Selecting a higher value for key length will result in stronger security, but increase the time needed to complete signing operations.  Select a cryptographic service provider (CSP):  RSA#Microsoft Software Key Storage Provider  Celect the back elements for the signing and for the time due the Date.
Private Key Cryptography CA Name Validity Period Certificate Database	Select the hash algorithm for signing certificates issued by this CA:          SHA256         SHA384         SHA512         CUA1         Image: Allow administrator interaction when the private key is accessed by the CA.
Progress Results	More about cryptographic options for a CA
	< Previous Next > Install Cancel

X

**Note:** iOS does not validate CA/RA certificates which are greater than 4096.

- 17. Accept the default common name and DN for the CA and **Next**.
- 18. Set the validity period to **10 years** and **Next**:

Add Roles Wizard		×
Set Validity Perio	od	
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	A certificate will be issued to this CA to secure communications with other CAs and with clients requesting certificates. The validity period of a CA certificate can be based on a number of factors, including the intended purpose of the CA and security measures that you have taken to secure the CA.         Select validity period for the certificate generated for this CA:         10       Years         CA expiration Date:       8/25/2025 5:40 PM         Note that CA will issue certificates valid only until its expiration date.	
	< Previous Next > Install Cancel	

- 19. Accept the default database locations and Next.
- 20. Review the configurations and click Install:

Add Roles Wiz	ard
---------------	-----

Confirm Installat	ion Selections
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Validity Period Certificate Database Confirmation Progress Results	Install the following roles, role services, or features, dick Install.         Image: Informational messages below         Image: Informational messages below         Image: Image: Informational messages below         Image: Image
	Print, e-mail, or save this information
	< Previous Next > Install Cancel

X

**Note:** The service role usually takes about 10 minutes to install. Skip the below **Subordinate CA Option** and continue to <u>Install the DNES service role</u>.

#### **Subordinate CA Option**

- 21. Select Subordinate CA and Next.
- 22. Ensure that Create a new private key is selected and Next.
- 23. Select **SHA256** for the key's signing algorithm and **2048** or **4092** for the character length.

#### Add Roles Wizard

Configure Crypto	graphy for CA
Before You Begin Server Roles AD CS Role Services Setup Type CA Type	To create a new private key, you must first select a <u>cryptographic service provider</u> , <u>hash algorithm</u> , and key length that are appropriate for the intended use of the certificates that you issue. Selecting a higher value for key length will result in stronger security, but increase the time needed to complete signing operations. Select a cryptographic service provider (CSP): RSA#Microsoft Software Key Storage Provider
Private Key Cryptography CA Name Validity Period Certificate Database	Select the hash algorithm for signing certificates issued by this CA:          SHA256         SHA384         SHA512         CUA1
Confirmation Progress Results	More about cryptographic options for a CA
	< Previous Next > Install Cancel

X

**Note:** iOS does not validate CA/RA certificates which are greater than 4096.

- 24. Accept the default common name and DN for the CA and Next.
- 25. Select Send a certificate request to a parent CA and click Browse...

Add Roles Wizard			×
Select Certification Authority	<u>?</u> ×	1	
Select a certification authority (CA) you	want to use.		
CA	Computer 🔺		
smmglobal-AMS-SUB-CA-CA smmglobal-CA smmglobal-SCEP-CA smmglobal-SCEP-SMMNET-CA smmglobal-SCEPNET-CA SMMGLOBALNET-CA	Amaguar Secon Secons SCEP-Secons Secons SCEP-Secons Secons	is subordinate CA directly from a parent CA in your netwo a parent CA arent CA © Computer name	rk or save the
			Browse
	OK Cancel	and manually send it later to a parent CA:	
CA Name Certificate Request	File name: C: MSCA-SCEP	smmglobal.net_smmglobal-MSCA-SCEP-CA.req ertificate back from the parent CA to make this CA operatio	Browse,
Certificate Database			
Confirmation			
Progress			
Results			
		< Previous Next > Install	Cancel

26. Select the CA from the list and **OK** from the selection window and click **Next**.

**Note:** If no CA is displayed the <u>Root CA Option</u> is recommended.

- 27. Review the default database directories and **Next**.
- 28. Review the subordinate CA's configuration and click Install:

Add Roles Wizard

Confirm Installat	on Selections
Before You Begin Server Roles AD CS Role Services Setup Type CA Type Private Key Cryptography CA Name Certificate Request Certificate Database <b>Confirmation</b> Progress Results	Install the following roles, role services, or features, dick Install.         Image: Installed to the restarted after the installation completes.         Image: I
	Print, e-mail, or save this information          < Previous

X

**Note:** The installation can take up to 10 minutes.

#### **Install the DNES service role**

- 29. From the Server Manager console, expand **Roles** right-click on the **Active Directory Certificate Services** and click **Add Role Services**.
- 30. Check the **Network Device Enrollment Service**, when prompted click **Add Required Role Services** and **Next** to continue.
- 31. Click Select User... and add the SCEP user account created earlier:

O Use the	Add Role Serv Specify a name	rices and password.			
		scep_service_accou	INT		
			ОК	Cancel	

**Note:** If a notification appears that the user is not a member of the IIS\_USERS group on the local machine repeat <u>Adding a user to the machine's local IIS\_USERS group</u>.

- 32. Next to continue to the RA (Registration Authority) Information section.
- 33. Optionally enter the certificate administrator's contact information. Ensure to not abbreviate the State/Province name:

	Add	Role !	Services
--	-----	--------	----------

Specify Registrat	tion Authority Information
Role Services User Account RA Information	A registration authority will be set up to manage Network Device Enrollment Service certificate requests. Enter the requested information to enroll for an RA certificate.
Cryptography Web Server (IIS) Role Services	Required Information         RA Name:       MSCA-SCEP-MSCEP-RA         Country/Region:       US (United States)
Confirmation Progress Results	Optional InformationE-mail:adam_burner@acme.company.orgCompany:ACMEDepartment:CryptographyCitySpringfieldState/Province:Oregon
	< Previous Next > Install Cancel

×

- 34. Click  ${\bf Next}$  and ensure that 2048 or 4096 are selected for the key character lengths and  ${\bf Next}$  .
- 35. **Next** through the Web Server (IIS) Introduction page.
- 36. Accept the default features and Next:

37. Review the configuration and click Install:

Add Role Services		x
Installation Resul	ts	
Role Services User Account RA Information Cryptography Web Server (IIS) Role Services Confirmation Progress Results	Image: A service of the service of	e installed successfully:   . To ensure that your newly-installed role or feature is date in Control Panel. <ul> <li>Installation succeeded</li> </ul>
	< Prev	vious Next > Close Cancel

# Adding a Certificate to the IIS

38. Start > Run:

inetmgr

39. From the IIS Manager console select the SCEP server's name on the left and open **Server Certificates** from the **Features View** on the right:



40. If an SSL certificate is already issued to this machine, it will be displayed along with the CA certificate. Select one of the three options below to bind an SSL certificate to this machine.

#### **Temporary Self-Signed Certificate**

- 41. On the right, click Create Self-Signed Certificate...
- 42. Enter a friendly name for this certificate to identify it and OK.

#### **Import a PKCS Certificate**

- 43. Transfer the PKCS certificate to the machine.
- 44. From the IIS Manager > Server Certificates click Import... on the right.
- 45. Browse to the certificate file and click **OK**.
- 46. Enter the passphrase for the certificate file.

#### **Request a Certificate from a Certificate Authority**

- 47. From the IIS Manager > Server Certificates click Create Certificate Request... on the right.
- 48. Enter the server information into the request.

**Note:** The Common Name must match the published domain name of the server. Do not abbreviate the State/Province field. Contact your public certificate authority for how to fill in this request:

Request Certificat	te	? ×
Disti	inguished Name Properties	
Specify the requir as official names (	red information for the certificate. State/province and City/locality must be specified and they cannot contain abbreviations.	
Common name:	*.acme.company.org	
Organization:	ACME	
Organizational un	hit: Security	
City/locality	Springfield	
State/province:	Oregon	
Country/region:	US	
	· _	
	Previous Next Finish Cancel	

49. Next to the Cryptographic properties and ensure that 2048 or 4096 are selected for the Bit Length and Next.

Request Ce	rtificate				? ×
<b>P</b>	Cryptographic Service I	Provider Prope	rties		
Select a c determine However,	ryptographic service provider and es the certificate's encryption stre a greater bit length may decreas	d a bit length. The bi ngth. The greater th e performance.	t length of the e ne bit length, th	encryption key e stronger the sec	curity.
Cryptogra	aphic service provider:				
Microsoft	RSA SChannel Cryptographic Pro	vider	▼		
Bit length:	:				
2048	•				
		Previous	Next	Finish	Cancel

- 50. Save the CSR (Certificate Signing Request) file and **Finish**.
- 51. Send the CSR to the CA, following their instructions.
- 52. Once a certificate is issue click **Complete Certificate Request...** from the IIS Manager > Certificates console and follow the wizard to import the new certificate.

# **HTTPS Bindings**

- 53. From within the IIS Manager, expand the **Sites** and right-click on the **Default Web Site** and select **Edit Bindings**.
- 54. Click Add and select HTTPS for the type and the new SSL certificate:

Add Site Binding				? ×
Type: https	IP address: All Unassigned		Port:	
Host name:				
SSL certificate:				
const gibboninis		•	View	
		ОК	Cance	el

- 55. Click **OK** and **Close** out of the Site Bindings window.
- 56. Download and transfer the ADSC Communicator installer to the MSCA server:

$\equiv$	😳 Mobility Manager		
æ	Dashboard	Download iOS Work Hub Builder	Secure proxy The Secure Proxy provide servers via a proxy instal
썉	Users	Android Work Hub	access to the Email Infras For 64-bit Redhat/Cent(
۵	Devices	The Android Work Hub presents a marketplace interface to mobile users and displays new and updated apps they can download from Mobility Manager. The Work Hub also implements Android notifications and device management commands.	Download secure prov
	Apps	Mobile users usually download the mobile client using a link in the invitation email they receive when they're added to the system.	
	Content	You can also rebrand the Android Work Hub with a custom icon and title.	
U	Policies and rules	Download Android Work Hub	
<u>lılıl</u>	Reports		
*	Downloads	MDM (Mobile Device Management)	
0	Settings	<ul> <li>iOS MDM CSR</li> <li>After downloading the CSR, email it to MobileCSR@symantec.com. Include your name, company, and a contact phone number as well as the request. You'll get a reply with the Apple CSR. Upload the Apple CSR to https://identity.apple.com/pushcert/ which will provide a .pem file.</li> <li>Download iOS MDM CSR</li> <li>ADCS Communicator</li> <li>The ADCS Communicator allows Mobility Manager to communicate with Active Directory certificate services. Install the ADCS Communicator in the same domain as your Microsoft Certificate Authority instance and run as a user that has the ability to communicate with Active Directory Certificate Services through DCOM.</li> <li>Available only for 64-bit Windows Server 2008 R2 and higher.</li> <li>Download ADCS Communicator</li> </ul>	
		Copyright © 2010-2015 Symantec Corporation. All rights reserve	d. About Mobility Mana
13	SymantecADCSCommumsi 2.1/2.1 MB, 0 secs left		

57. Download and install the .NET Framework 4:

#### http://www.microsoft.com/en-us/download/details.aspx?id=17851

Note: A system reboot is required after installing .NET 4.

- 58. Run the SymantecADCSCommunicator.msi file, to begin, click Next.
- 59. Take note of the installation path, click Next.
- 60. Enter the scep user's credentials for the Account name and Password; click Next:



61. Enter the RabbitMQ information for the Mobility server.

**Important:** If a local RabbitMQ service was used, STOP and <u>read the beginning of this article</u>. A production RabbitMQ service is required. See <u>HOWTO110356</u> to deploy a production RabbitMQ cluster. If this article was followed, all this information is stored on the Rabbit server in /var/log/rabbit-install.log

Symantec ADCS Communication Serv	vice Setup		
RabbitMQ setup Enter RabbitMQ connection details.			S
Hostname/IP:			
rmaster.smmglobal.net			
Port:			
5672			
<u>V</u> irtual Host:			
mobilemq			
Username:			
mobile			
Pa <u>s</u> sword:			
•••••			
	Back	Next	Cancel

62. Verify that the domain information is correct and enter the server's published hostname, click **Next**.

**Note:** The server's hostname is the name used for the CN (Common Name) in the certificate, unless the certificate is wildcard. This hostname needs to be resolvable from the Mobility FE (front-end):

Symantec ADCS Communication Service Setup	_ 🗆 🗙
Certificate Authority setup Enter Domain and Certificate Authority details.	
Domain:	
Hostname (optional):	
Directory <u>P</u> ath (optional): For key recovery via AD (e.g.: dc=domain,dc=com)	)
Back	Next Cancel

63. Enter the MSCA's SCEP/NDES admin URL and see the tip below...

Tip: To test this URL, enter it into a browser, enter the SCEP user's credentials, click Log In:

msca-scep.ammglebel.net/certsrv/mscep_admin		
	Authentication Required X	
	The server http://msca-scep.smmglobal.net:80 requires a username and password.	
	User Name: scep_service_account@=====imainet Password: ******	
	Log In Cancel	

After log in:

← → C 🗋 msca-scep.smmglebel.net/certsrv/mscep\_admin/

#### Network Device Enrollment Servi

Network Device Enrollment Service allows you to obtain certificates for routers or other network devices using the Simple Certificate Enrollment Protocol (SCEP).

To complete certificate enrollment for your network device you will need the following information:

The thumbprint (hash value) for the CA certificate is: 4211A95C BARGE19-1000000B-1ECE1B82

The enrollment challenge password is: 32F57653E972E319

This password can be used only once and will expire within 60 minutes.

Each enrollment requires a new challenge password. You can refresh this web page to obtain a new challenge password.

For more information see Using Network Device Enrollment Service .

#### Once the URL is confirmed, click Next.

🖶 Symantec ADCS Communication Service Setup
NDES (SCEP) setup         Enter NDES information if you plan to use SCEP functionality.
Ndes <u>A</u> dmin Url: (standard: http://server/certsrv/mscep_admin) http://msca-scep. <u>;i_ial.net/certsrv/mscep_adm</u>
Back Next Cancel

64. Click Install.

#### Add a Certificate Authority to Mobility

- 65. From the MSCA server, click **Start > Run** and enter **MMC**.
- 66. Click File > Add remove snap-in, select Certificates and click Add.
- 67. Select Computer Account and Next.
- 68. Ensure Local computer is selected and click Finish.
- 69. Click **OK.**

- 70. Expand the Certificates (Local computer) tree to **Personal Certificates**.
- 71. Right-click on the CA certificate and select All tasks > Export.
- 72. Click, Next; select No, do not export the private key and click Next.
- 73. Select Base-64 and click Next.
- 74. Save the file as **CA\_cert.cer** and click **Next**.

**Note:** This certificate needs to be accessible from the workstation accessing the Mobility admin console as it will be uploaded to the server.

- 75. From the Mobility Admin console > Policies and rules > Device profiles, click the + (plus) symbol next to CERTIFICATE AUTHORITY:
- 76. Name it, MSCA and select Microsoft Certificate Authority for Type:

New Certificate authority profile

Name*	MSCA
Description	
Type*	Microsoft Certificate Authority

77. Under **Settings** enter the **Domain Name** and **Hostname** from step 62, click **Test connection**. A green checkbox is displayed. If after some time it errors, verify that the Mobility server can resolve this hostname. Add it to the DNS or modify the server's /etc/hosts file.

New Certificate	authority	profile
-----------------	-----------	---------

Name*	MSCA	
Description		
Туре*	Microsoft Certificate Authority	•
Settings		
Domain name and hostname must n	natch the values specified in the Active Director	y Certificate Services installer.
Domain Name*	second and a second	
Hostname	msca-scep.georganiael.net	Test connection
Hostname New root certificate	msca-scep.anteglatesI.net	Test connection

78. Finally, click **Choose File** and browse to the certificate exported /saved in step 74. Click **Save**.

79. Click the + (plus) symbol next to the **CERTIFICATE TEMPLATE** profile.

#### 80. Name it, IPSec and select the MSCA as the Certificate Authority.

#### 81. For the template name, enter IPSECIntermediateOnline and click Validate Template Name:

New Certificate template profile IPSec Name' Description Settings Certificate authority\* MSCA 0 Microsoft CA template name\* **IPSECIntermediateOnline** Validate Template Name Key Size 2048 bits V Policy details\* Certificate template variables Specify the source for the following values. Source can be hardcoded text, from user properties, the device, or user's directory (e.g. AD) information. Lookups are specified as {user.lookup}, {device.lookup}, or {ldap.lookup}. You can specify any combination of Name Value CN={user.first\_name} {u: SubjectName SAN\_UPN {user.email} Tokens LDAP tokens **Device tokens** User tokens {Idap.\*} {device.device\_class} {user.email} \* means any LDAP setting {device.IMEI} {user.first\_name} {device.name} {user.id} {device.platform} {user.last\_name} {device.product\_string} {user.username} {device.serial\_number} {device.udid} Idevice unique identifier Cancel

- 82. Click Save.
- 83. Click the + (plus) symbol next to SCEP.
- 84. Name the Profile **SCEP** and enter the URL of the MSCA enrollment service. The FQDN is this URL needs to be resolvable from the Mobile Devices. EG <u>https://msca-scep.acme.company.org/certsrv/mscep/mscep.dll</u>

**Tip:** Test this URL in a workstation to ensure that it arrives at the device enrollment page of the MSCA/NDES server.

- 85. Select Generate Per Request for the Challenge Password.
- 86. Navigate, from the workstation, to the SCEP admin URL from step 63 and copy the CA's thumbprint as the **Fingerprint.**

**Note:** Spaces in the Fingerprint/Thumbprint are okay.

87. Select IPSec as the Template and 2048 as the Key strength; click Save:

New SCEP profile	
Missing data: URL cannot be bla	nk or an empty string. 🗙 🗙
Name <sup>*</sup>	SCEP
Description	
Settings	
URL*	https://msca-scep.smmglobal.net/certsrv/mscep/mscep.dll
Challenge password	<ul> <li>None</li> <li>Generate Per Request</li> <li>Master Challenge Password</li> </ul>
Retry count	3 🔻
Retry period	5 <b>v</b> minutes
Fingerprint	4211A95C 2BA8CE16 4036580B 456E4B82
Certificate template	IPSec •
Subject	CN={user.first_name}{user.last_name}
SAN type	None
Subject alternative name	{user.email}
Key Usage	Signing and verification end Encryption and decryption
Key strength	2048 bits •

Save

Cancel

- 88. Click the + (plus) symbol next to CREDENTIALS and name the credential Device Enrollment.
- 89. For Certificate type select SCEP.
- 90. For the SCEP Profile select SCEP, and click Save:

Name <sup>*</sup>	Device Enrollment
Description	
OS	iOS
ngs : the certificate profile that wil	be pushed to a device and stored in the general keystore to use with browsers and apps.
tings ct the certificate profile that wil <b>Certificate type</b>	be pushed to a device and stored in the general keystore to use with browsers and apps.

## Add the SCEP Profile to a Device Policy

- 91. If not device profile has been created, create one.
- 92. Select the profile and click the edit symbol (Pencil).
- 93. Ensure enable MDM for iOS devices is checked and scroll down to the bottom of the edit window.
- 94. Under Credentials click Add and select Device Enrollment.
- 95. Save the profile and test it by enrolling a new iOS device that does not already have an MDM profile installed.
- 96. Verify that the server has issued a SCEP certificate by going to the Server Manager and expand Active Directory Certificate Authority > Server\_Name > Issued Certificates. There should be a new certificate(s) issued to users by the First and Last names:

