

Installation and backup of the certificates with private key in Windows Server 2003/2008/2008 R2

In the Start menu write mmc and click on it

Programs (1)			_
👼 mmc			
▷ See more results			
mmc		Shut down	
🎝 Start 🕖 🧭	0		

Window MMC will open, there select File/Add or Remove Snap-in

5	Cons	ole1 - [C	onsole	Root]		
-	File	Action	View	Favorites	Window	Help
	Ne	w		Ctrl+N	1	
	Ор	en		Ctrl+O		
	Sa	ve		Ctrl+S		
	Sa	ve As				
	Ad	ld/Remove	e Snap-i	n Ctrl+M		
	Op	tions				
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On the left select **Certificates** and click on **ADD**

ActiveX Control ActiveX Control Authorization Manager Certificates Component Services	Vendor Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor	Console Root	Edit Extensions Remove
ActiveX Control Authorization Manager Certificates Component Services	Microsoft Cor Microsoft Cor Microsoft Cor Microsoft Cor		Remove
Authorization Manager Certificates Component Services	Microsoft Cor Microsoft Cor Microsoft Cor		Remove
Certificates Component Services	Microsoft Cor Microsoft Cor		
Component Services	Microsoft Cor		
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Computer Managem	Microsoft Cor		
Device Manager	Microsoft Cor	H S	Move Down
Disk Management	Microsoft and		
Event Viewer	Microsoft Cor		
Folder	Microsoft Cor		
Group Policy Object	Microsoft Cor		
IP Security Monitor	Microsoft Cor		
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Link to Web Address	Microsoft Cor		Advanced
Local Users and Gro	Microsoft Cor	I	
scription:			
scription:	we you to browse the conten	te of the certificate stores for vourse	If a service, or a computer
Link to Web Address Local Users and Gro	Microsoft Cor Microsoft Cor		Advanced.

Next choose Computer account

Certificates snap-in			×
This snap-in will always manage certificates for:			
O My user account			
Service account			
Computer account			
	< Back	Next >	Cancel



Next keep choice Local computer and click on Finish and in the window ADD or Remove click OK

lect Computer					×
Select the computer your	unet this anno is to mak				
	vancunis snaphri to mar	iaye.			
I his shap in will always	manage:				
 Local computer: (ti 	ne computer this consol	e is running o	n)		
C Another computer:				Browse	
Allow the selected only applies if you :	computer to be change save the console.	d when laund	ching from the co	mmand line. This	
		. 0			1
		< Ba	ick Finis	h Cancel	
d or Remove Snap-ins					
ou can select snap-ins for t	his console from those a	vailable on you	ur computer and c	onfigure the selected s	set of snap-ins. For
xtensible snap-ins, you can	configure which extensi	ons are enable	ed.		
vailable snap-ins:			Selected snap-ins	:	
Snap-in	Vendor		Console Roo	t	Edit Extensions
ActiveX Control	Microsoft Cor		Certificat	es (Local Computer)	Remove
Certificates	Microsoft Cor				
💩 Component Services	Microsoft Cor				Move Up
E Computer Managem	Microsoft Cor				
Bevice Manager	Microsoft Cor	مطط > 1			Move Down
Disk Management	Microsoft and	Auu >			
Event viewer	Microsoft Cor				
Group Policy Object	Microsoft Cor				
IP Security Monitor	Microsoft Cor				
IP Security Policy Ma	Microsoft Cor				
Link to Web Address	Microsoft Cor				
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The Certificates snap-in allo	ws you to browse the co	ontents of the	certificate stores	for yourself, a service	or a computer.



Now you'll see Certificate manager in the left part of the window. Open **Certificate(Local Computer)** and right click on **Personal** and select **All Tasks/Import**



In the Certificate Import Wizard click on Next





On next window click on **Browse** and select certificate you want to install and click on **Open**, after that click on **Next**.

(when installing certificate in format .pfx change the search format in the lower right corner seen on 2nd picture)

File to Import Specify the file	you want to import.			
File name:				
C:\Users\Jac	k\Desktop\certificate.cer		Browse	
Note: More th	an one certificate can be	stored in a single file in the follo	wing formats:	
Personal In	formation Exchange - PKC	S #12 (.PFX,.P12)		
Cryptograp	hic Message Syntax Stand	dard-PKCS #7 Certificates (.P7	В)	
Microsoft Se	erialized Certificate Store	(.SST)		
Learn more about <u>c</u>	ertificate file formats			
		< Back Next >	Cancel	
		< Back Next >	Cancel	
Open		< Back Next >	Cancel	
Open ↓ Desktop - rganize - New folder		< Back Next >	Cancel	Search Desktop
Open ■ Desktop • rganize • New folder Favorites ■ Desktop ■ Desktop	Libraries System Folder	< Back Next >	Cancel	Search Desktop
Open	Libraries System Folder	< Back Next >	Cancel	Search Desktop
Open ✓ Desktop → ✓ Favorites ✓ Desktop ✓ Desktop ✓ Desktop ✓ Desktop ✓ Desktop ✓ Libraries ✓ Libraries ✓ Documents	Libraries System Folder Computer System Folder	< Back Next >	Cancel	Search Desktop
Open	Libraries System Folder Computer System Folder University System Folder University System Folder	< Back Next > every Homegroup System Folder for the system Folder Network System Folder for the system Folder fo	Cancel	Search Desktop
Open	Libraries System Folder System Folder Computer System Folder System Folder Winserv File folder Security Certificate 772 bytes	 	Cancel	Search Desktop
Open Image: Computer	Libraries System Folder Computer System Folder Winserv File folder Ssss Security Certificate 772 bytes	< Back Next > Image: Constraint of the system of the system folder Image: Constraint of the system folder Image: Co	Cancel	Search Desktop
Open Image: I	Libraries System Folder Wiserv File folder Wiserv Security Certificate 772 bytes	< Back Next > Image: Constraint of the system of the system folder Image: Constraint of the system folder Image: Co	Cancel	Search Desktop

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Next choose option ,,Place all certificates in the following store" if its not already selected and click on Next

rtificate Import Wizard	
Certificate Store	
Certificate stores are system areas where certificates are kept.	
Windows can automatically select a certificate store, or you can specify a location the certificate.	n for
$\ensuremath{\mathbb{C}}$ Automatically select the certificate store based on the type of certificate	
• Place all certificates in the following store	
Certificate store:	
Personal Browse.	
Learn more about <u>certificate stores</u>	

On last window choose Finish and then click OK

Certificate Import Wizard		X
	Completing the Certi Wizard The certificate will be imported after You have specified the following set	ficate Import r you dick Finish. ttings:
	Certificate Store Selected by User Content File Name	Personal Certificate C:\Users\Jack\Deskto
	< Back f	inish Cancel





Export of the certificate with private key

After successful import select in the left panel **Certificate/Personal/Certificates**, mark and right click on the certificate and select **All Tasks/Export**



Export a certificate

in the Export wizard choose Next

Certificate Export Wizard	
	Welcome to the Certificate Export Wizard
<u>s</u>	This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk.
	A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
	To continue, click Next.
	< Back Next > Cancel

mark option ,,Yes, export the private key" and then Next

ertificate Export Wizard		×
Export Private Key		
You can choose to export the private key	with the certificate.	
Private keys are password protected. If y certificate, you must type a password on	you want to export the private key with the a later page.	
Do you want to export the private key w	ith the certificate?	
Yes, export the private key		
No, do not export the private key	/	
Learn more shout experting private keys		
cean more about exporting private keys		
	< Back Next > Can	cel

leave the current PKCS #12 format setting

Certificate Export Wizard	3
Export File Format Certificates can be exported in a variety of file formats.	
Select the format you want to use:	
O DER encoded binary X.509 (.CER)	
Base-64 encoded X.509 (.CER)	
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	
Microsoft Serialized Certificate Store (.SST)	
Learn more about <u>certificate file formats</u>	
< Back Next > Cancel	

enter password, which will protect this backup and select Next

Certificate Export Wizard
Password To maintain security, you must protect the private key by using a password.
Type and confirm a password.
Password:
••••
Type and confirm password (mandatory):
••••
< Back Next > Cancel

choose location, where will be your backup stored with option Browse

Certificate Export Wizard
File to Export Specify the name of the file you want to export
File name:
Browse
< Back Next > Cancel



you can choose to save it on Desktop and then select option Save

🥖 Save As									×
O O E Deskto	ор 🕨					▼ 1	Search Desktop		م
Organize 🔻 Ne	w folder								0
★ Favorites ■ Desktop ■ Downloads			Libraries System Folder	R	Homegroup System Folder	2	Jack System Folder		
🖳 Recent Places	Ш		Computer System Folder		Network System Folder	h	Win7 File folder		
Libraries Documents Music		S	qual Personal Information Exchange 7.44 KB						
Pictures Videos									
🍓 Homegroup	Ŧ								
File name:	backup)							-
Save as type:	Persona	ıl Informati	on Exchange (*.pfx)						-
Alide Folders							Save	Cance	

proceed with button Next

Certificate Export Wizard	×
File to Export Specify the name of the file you want to e	export
File name:	
C:\Users\Jack\Desktop\backup.pfx	Browse
	< Back Next > Cancel



for completion choose Finish

Certificate Export Wizard		×		
	Completing the Certificate Exp Wizard	port		
	You have successfully completed the Certificate Export wizard.			
	You have specified the following settings:			
	File Name	C:\Use		
	Export Keys	Yes		
	Include all certificates in the certification path	No		
	File Format	Personi		
	< III	4		
	< Back Finish	Cancel		

Certificate Export Wizard
The export was successful.
ОК

file with backup which contains private key is saved in choosen location.