

D-Link

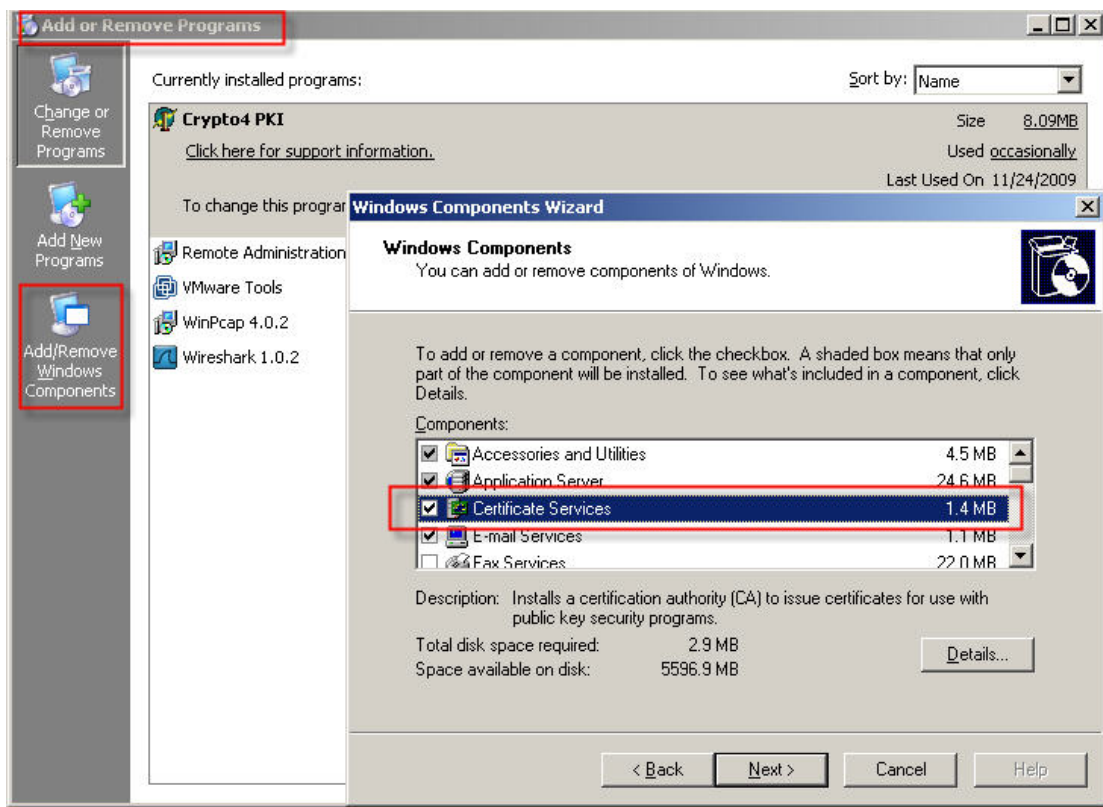
How To Use Windows CA Server For TLS_ALG

In this case, firewall can proxy https service while translates the “HTTPS” traffic to “HTTP_Server”. It means, http client established a http session with firewall, and get http information from a HTTP_Server which behind DFL firewall.

1. Topology:

HTTP_Server(192.168.1.2)---(192.168.1.1)DFL-Series(10.1.1.12)---(10.1.1.13)HTTP_client

2. Create CAs for firewall, now setup CA service.



3. Download Root CA, go to <http://127.0.0.1/certsrv>, and:

Welcome

Use this Web site to request a certificate for your Web browser the Web, sign and encrypt messages, and, depending upon th

You can also use this Web site to download a certificate author

For more information about Certificate Services, see [Certificate](#)

Select a task:

[Request a certificate](#)

[View the status of a pending certificate request](#)

[Download a CA certificate, certificate chain, or CRL](#)

Microsoft Certificate Services -- Benson_CA

Download a CA Certificate, Certificate Chain, or CRL

To trust certificates issued from this certification author

To download a CA certificate, certificate chain, or CRL, :

CA certificate:

Current [Benson_CA]

Encoding method:

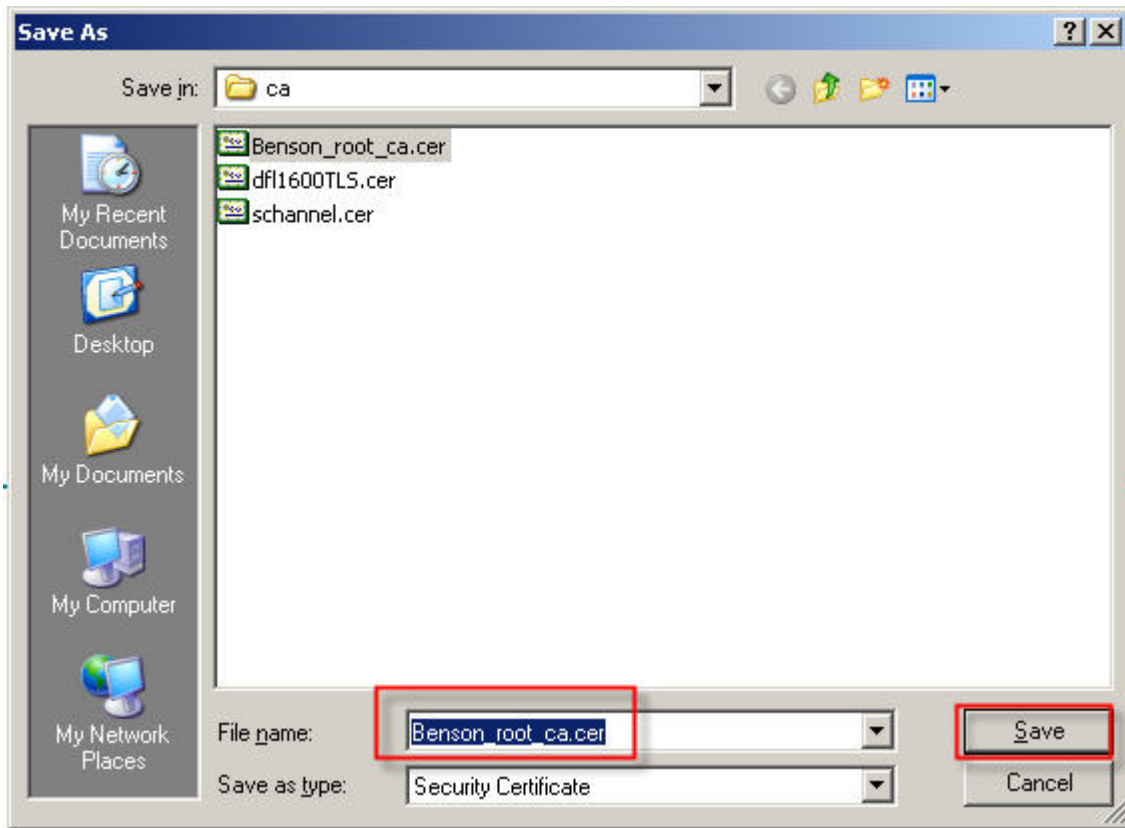
DER

Base 64

[Download CA certificate](#)

[Download CA certificate chain](#)

[Download latest base CRL](#)



4. Request a CA for TLS_ALG.
Request a certificate
Or, submit an advanced certificate request.
Create and submit a request to this CA.

Microsoft Certificate Services - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://127.0.0.1/certsrv/certrqma.asp

Microsoft Certificate Services -- Benson_CA

Advanced Certificate Request

Identifying Information:

Name:

E-Mail:

Company:

Department:

City:

State:

Country/Region:

Type of Certificate Needed: **SSL/TLS using Server Authentication Certificate**

Key Options:

Create new key set Use existing key set

CSP:

Key Usage: Exchange Signature Both

Key Size: Min: 384 Max: 16384 (common key sizes: [512](#) [1024](#) [2048](#) [4096](#) [8192](#) [16384](#))

Automatic key container name User specified key container name

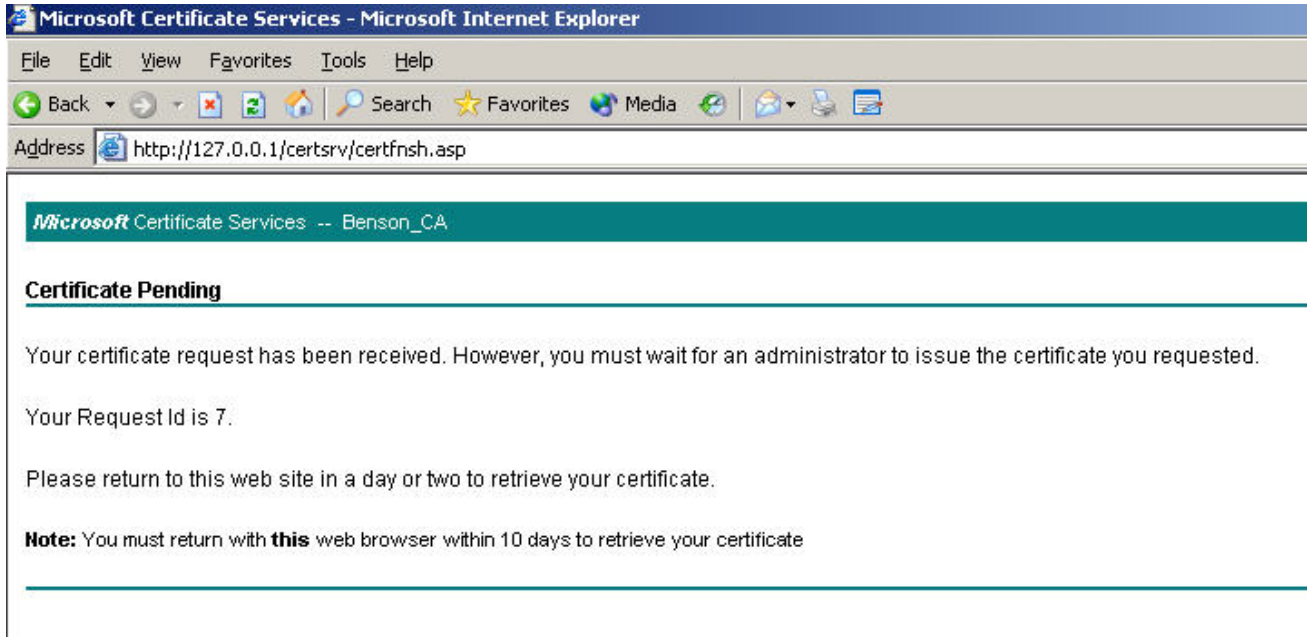
Mark keys as exportable

Enable strong private key protection

Store certificate in the local computer certificate store
Stores the certificate in the local computer store instead of in the user's certificate store. Does not install the root CA's certificate. You must be an

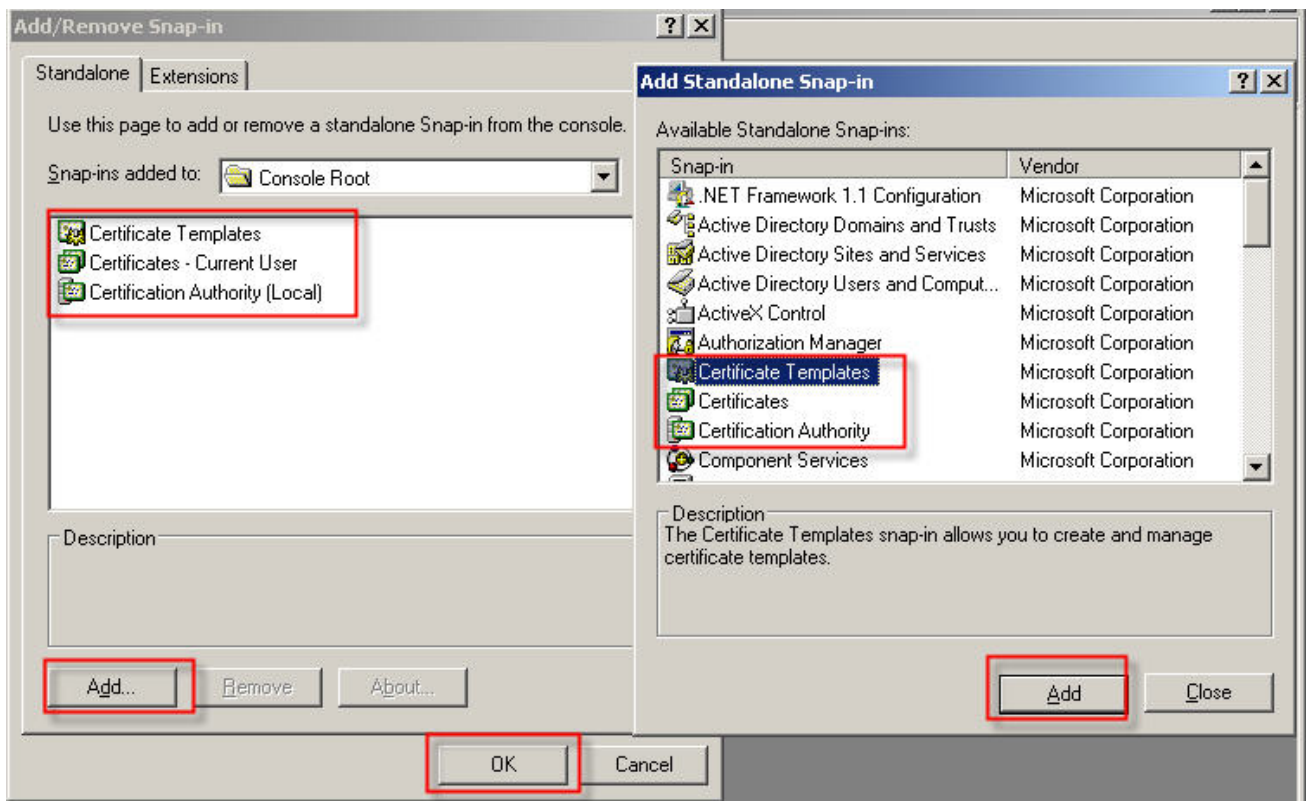
Done

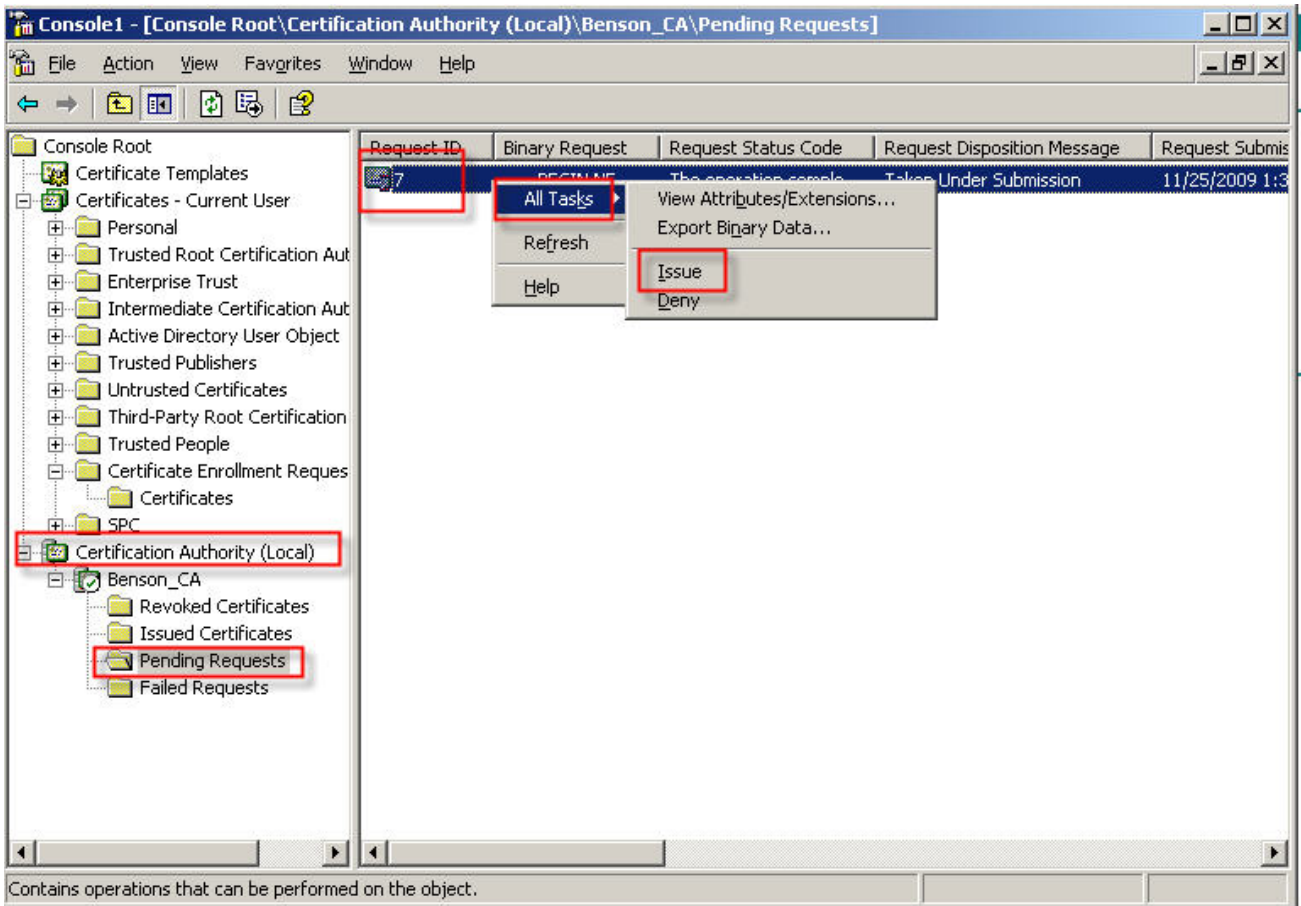
5. Now, CA is pending.



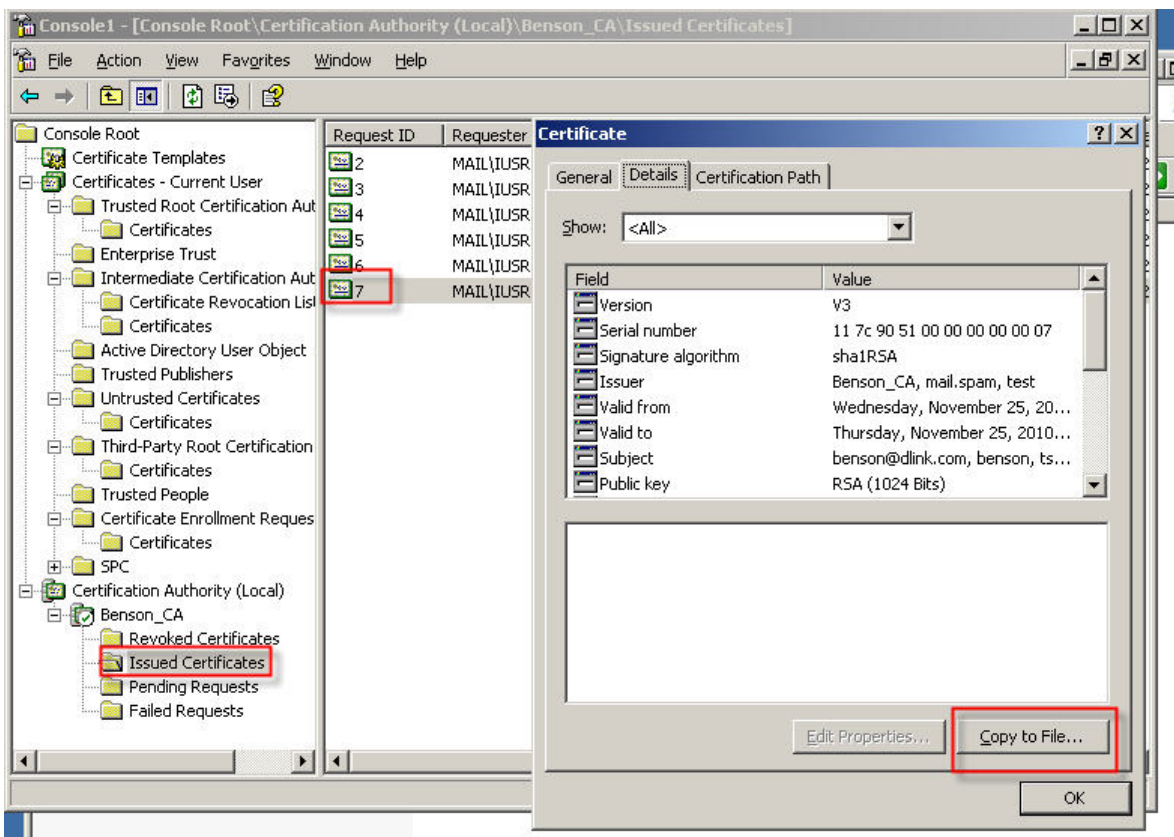
6. Go to MMC-> CA to issued this CA.

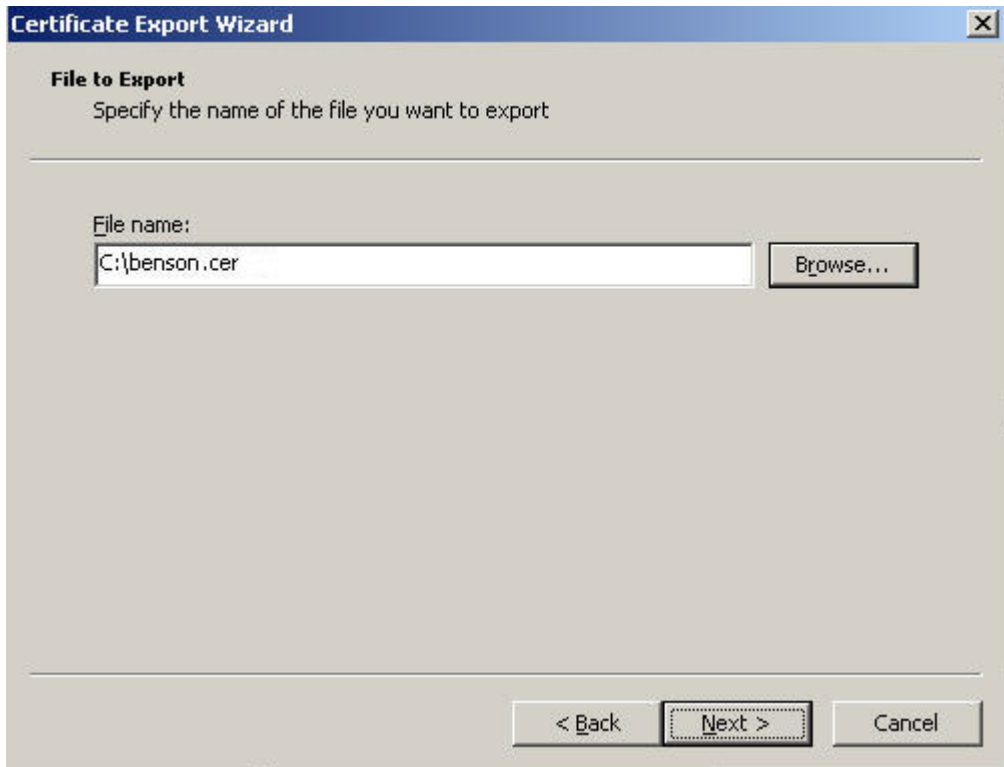
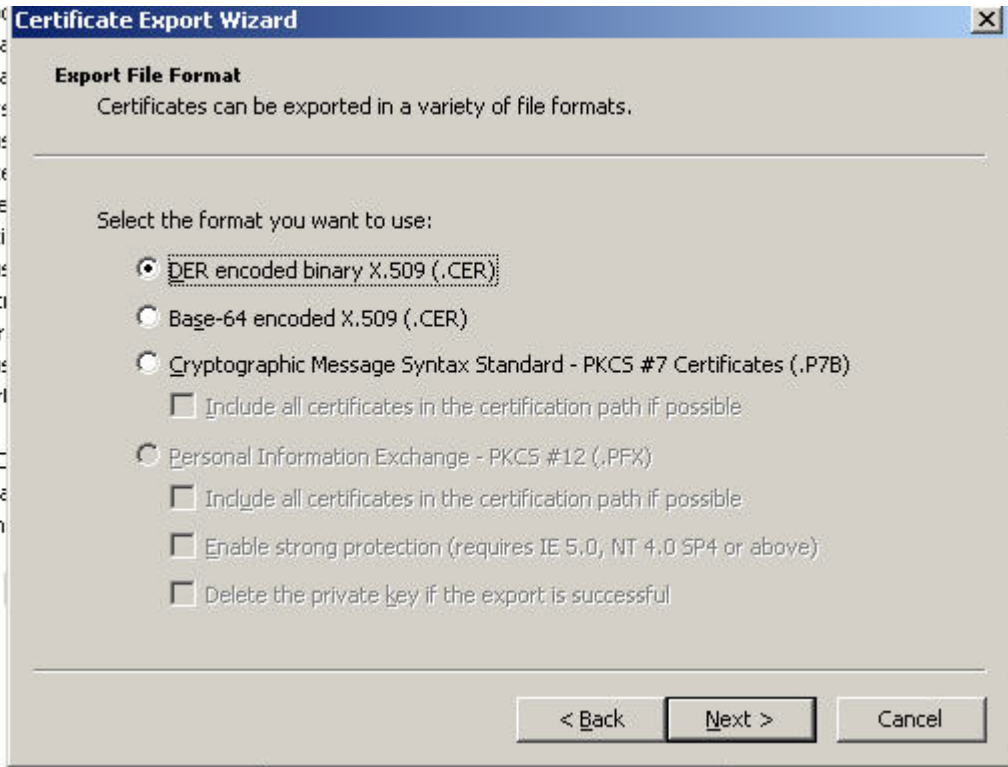
Start > mmc



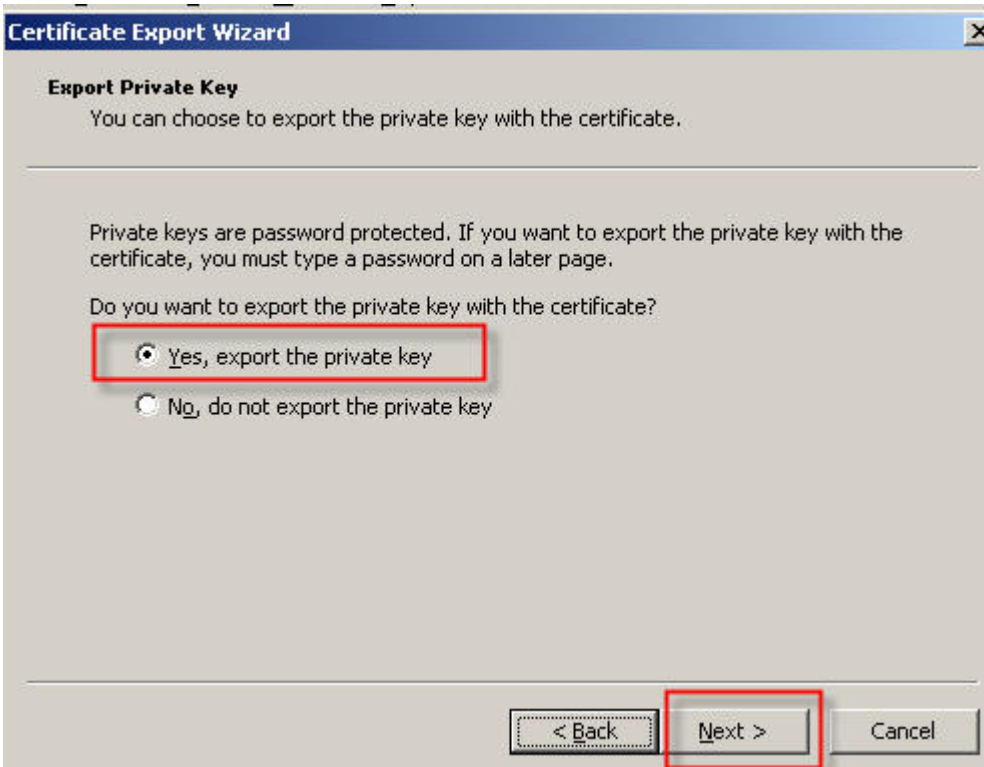
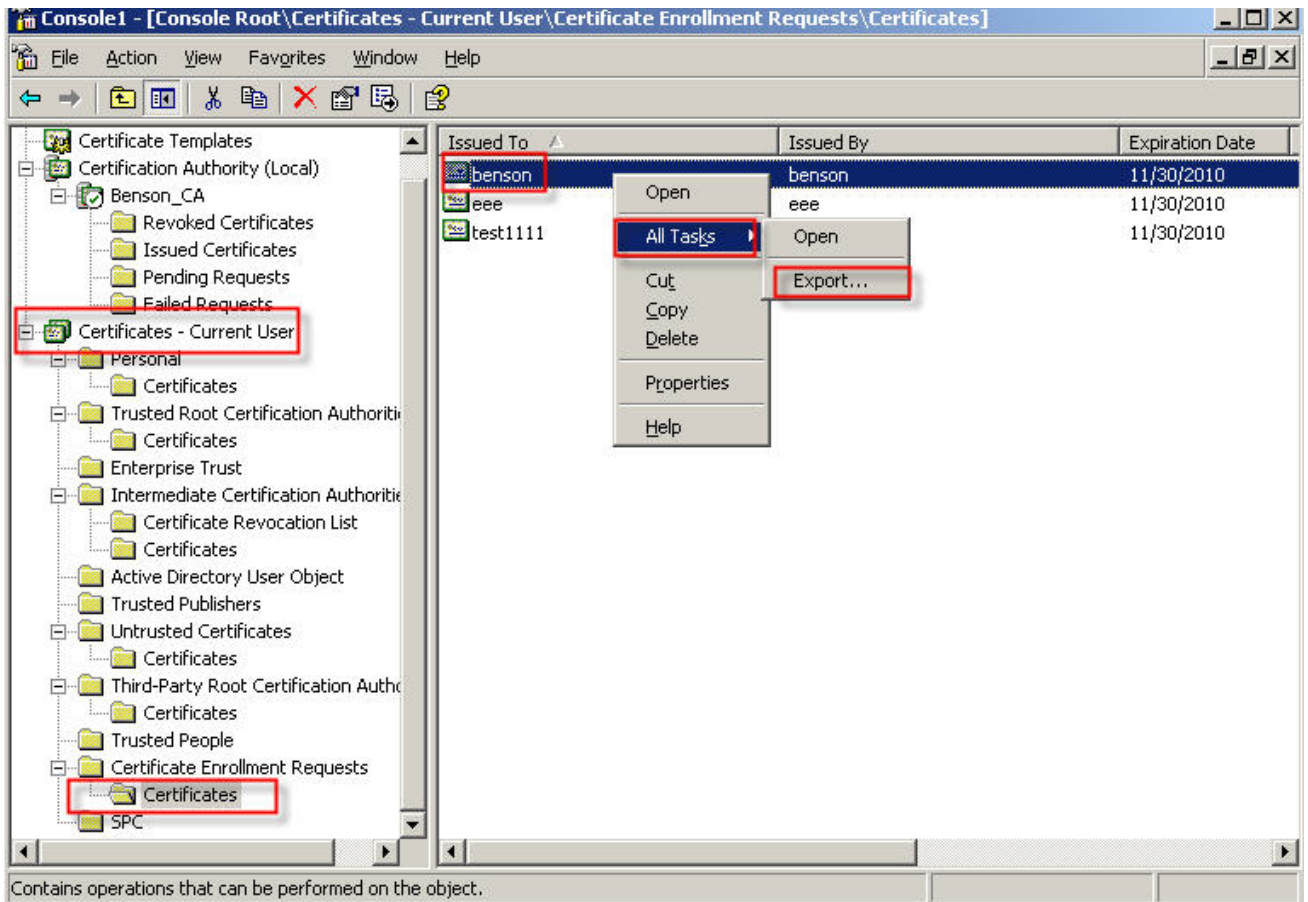


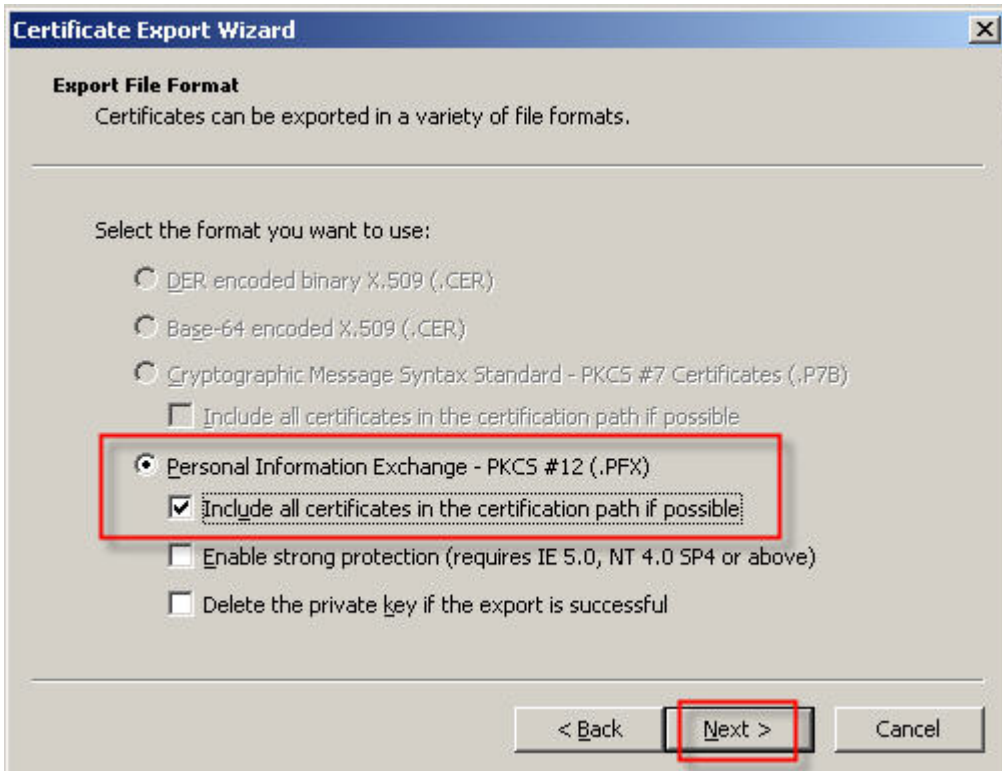
7. Copy this CA.

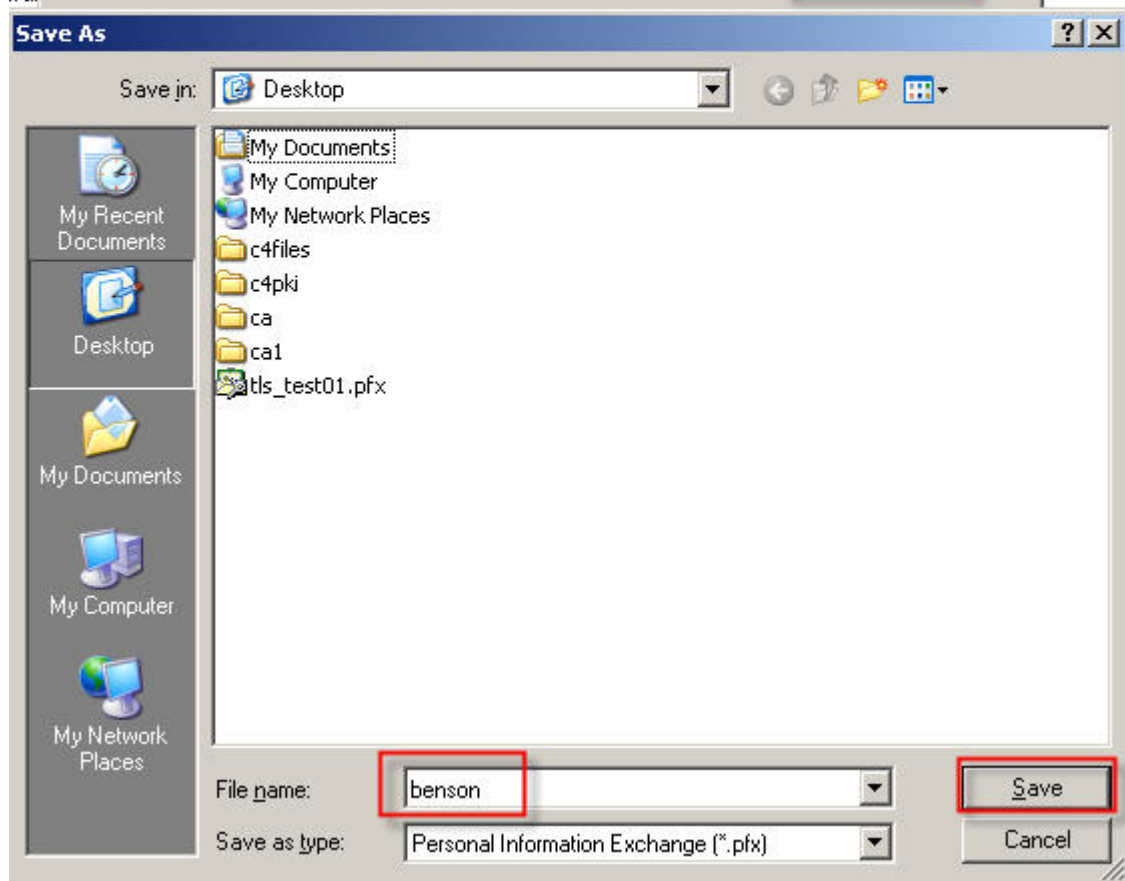
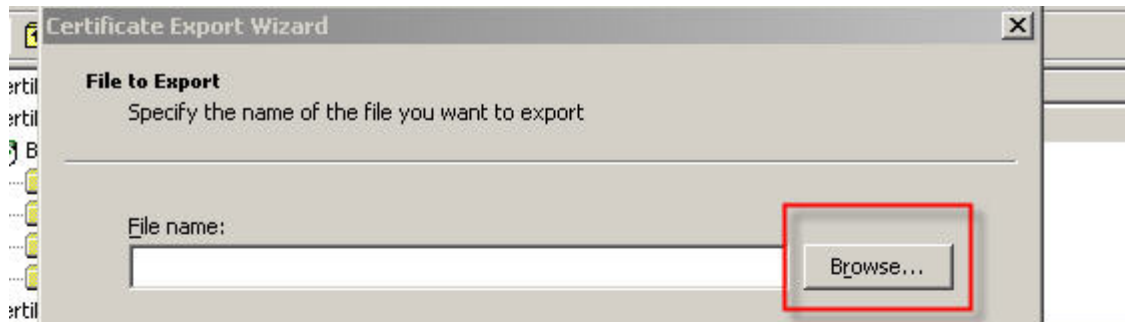




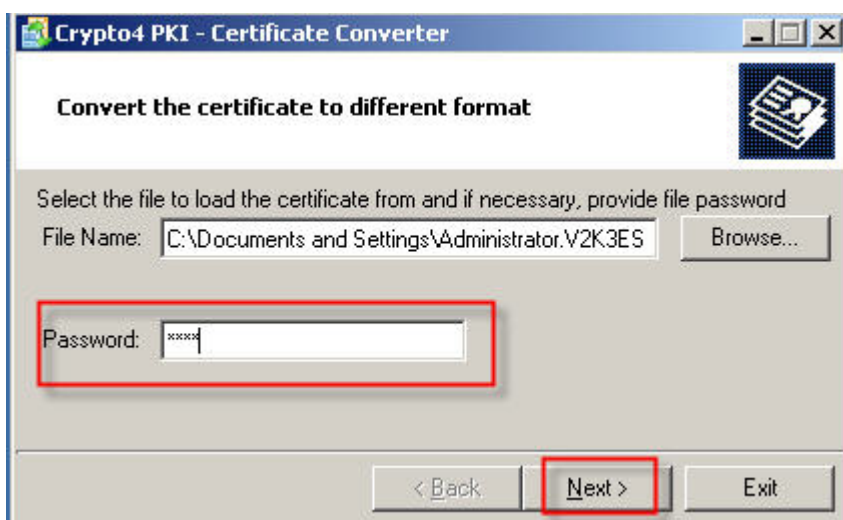
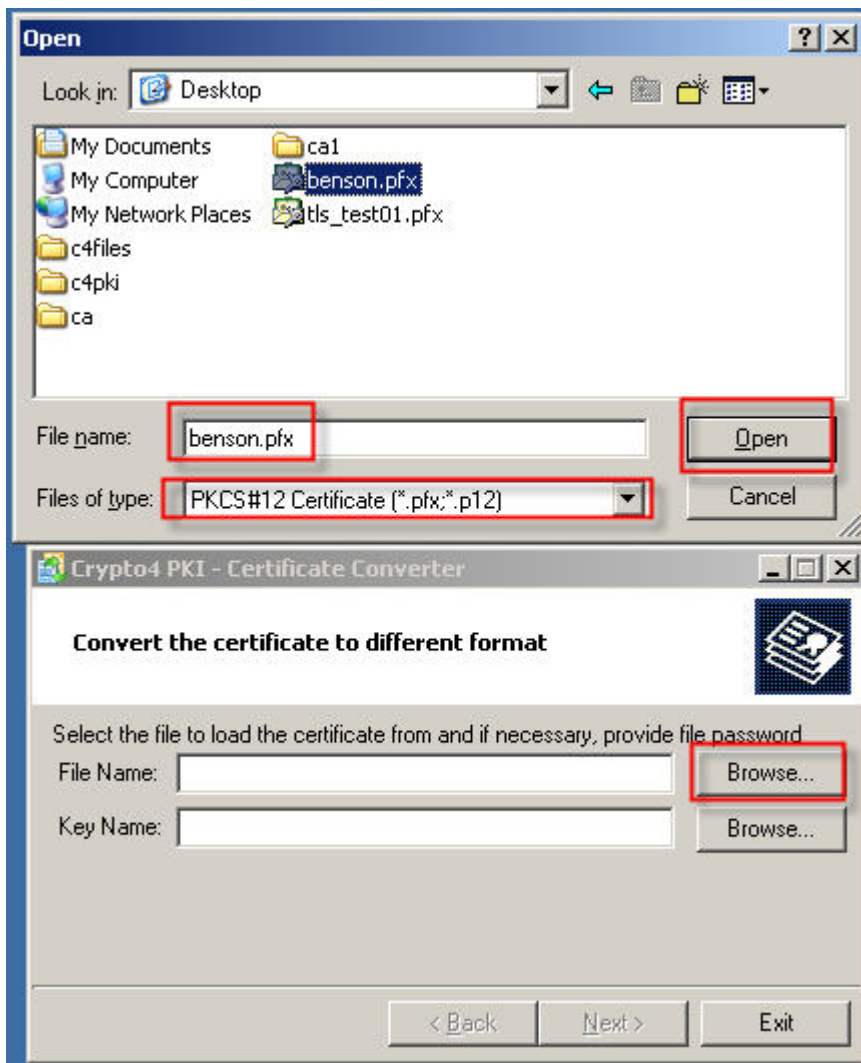
8. Download benson.pfx.

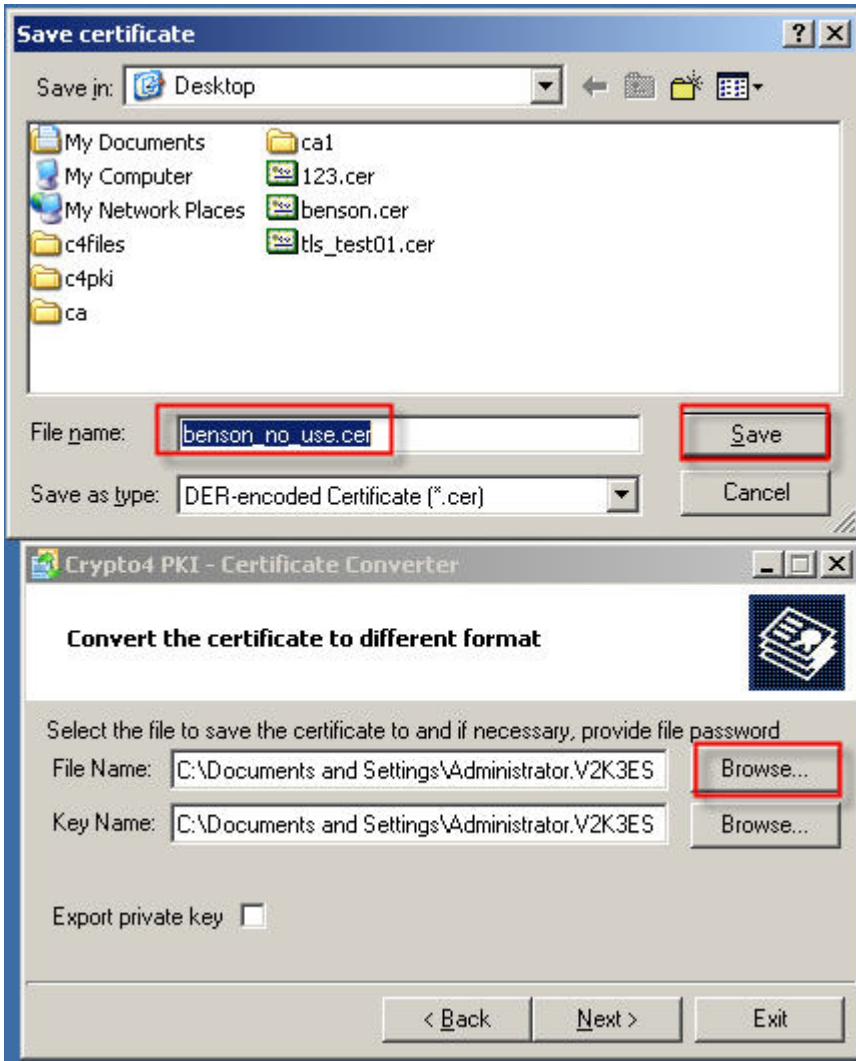


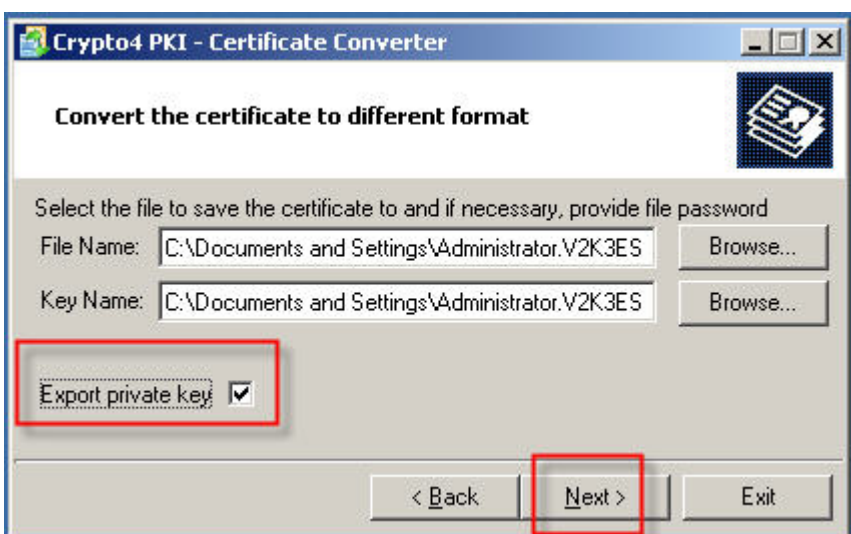
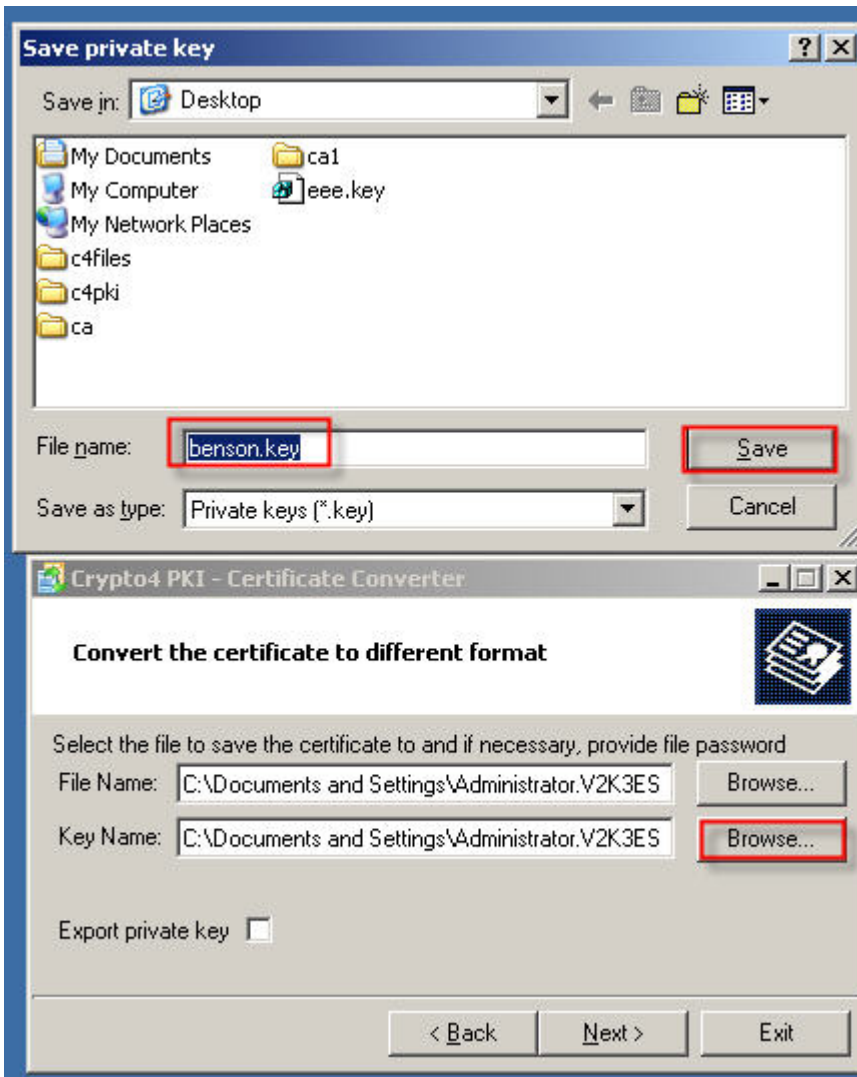




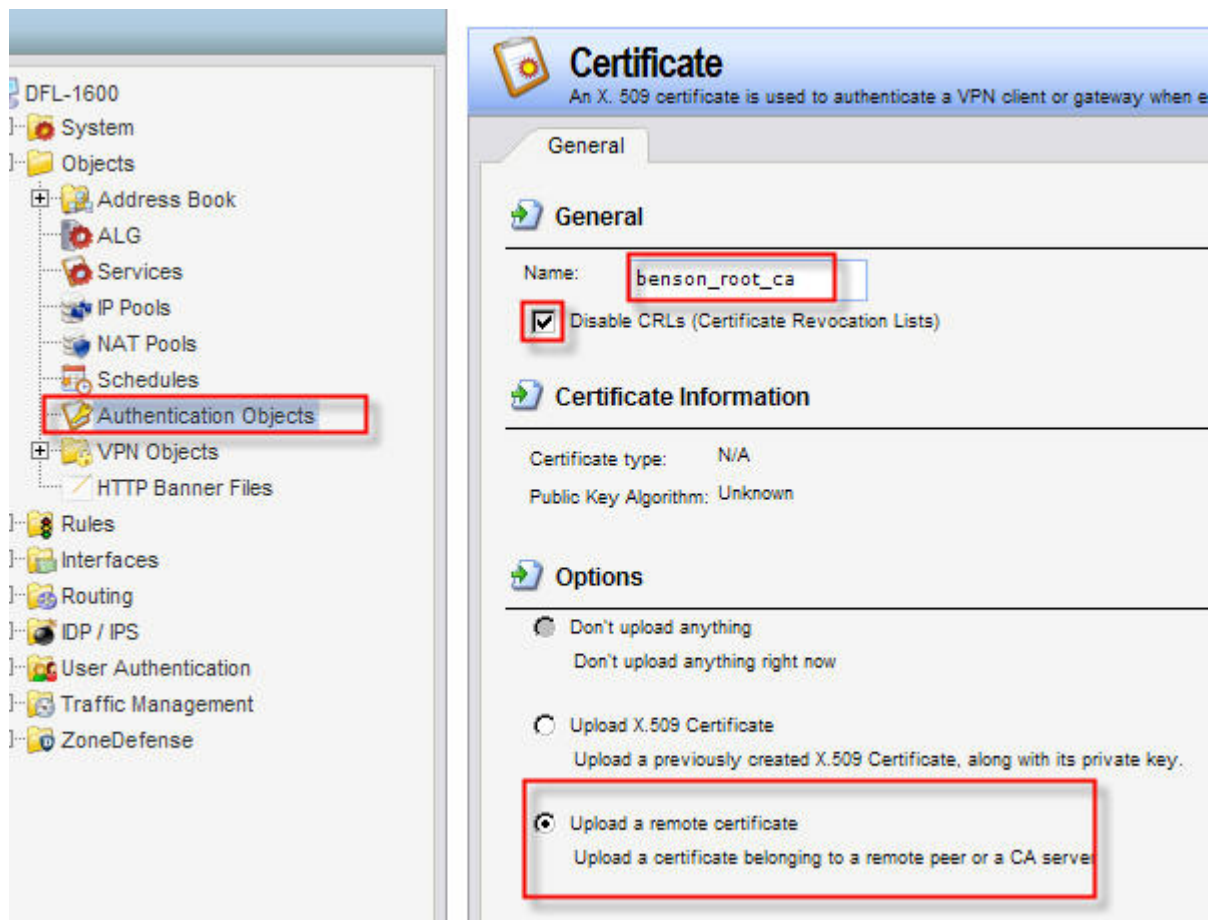
9. User Crypto4 convert application to export benson.key(private key).







10. Import Benson_root_ca.cer, benson.cert and benson.key into DFL





Upload X.509 certificate

Upload CA certificate, or certificate belonging to a remote peer

General

C:\Documents and Settings\benison\Desktop\Benson_root_ca

Browse...

Upload X.509 certificate

Choose file

Look in: Desktop



My Recent Documents



Desktop



My Documents



My Computer



My Network Places

My Documents

My Computer

My Network Places

Acronis Disk Director Server

ActiveTcl Wish Console IxOS 5.30.450.27 EA-SP2-Patch1

Adobe Acrobat 9 Pro

Aptixia IxLoad 4.20.122.25 EA

Avira AntiVir Control Center

Ixia Application Selector

Ixia IxExplorer IxOS 5.30.450.27 EA-SP2-Patch1

Nero Home

Nero StartSmart

QuickTime Player

Skype

SnagIt 8

VMware W

Wish Cons

AKI SIP CA

c4files

ca

DGE-528T

DGS-1216

iperf

~\$st(09051

~\$w to use

1.jpg

2.jpg

3.jpg

4.jpg

5.jpg

File name:

Benson_root_ca.cer

Open

Files of type:

All Files (*.*)

Cancel



Upload X.509 certificate

Upload a previously created X.509 Certificate

General

Choose file

Look in: Desktop

My Recent Documents

Desktop

My Documents

My Computer

My Network Places

- 6.jpg
- 7.jpg
- 8.jpg
- 9.jpg
- 11.pcap
- 111.jpg
- 980827(0827171044).cap
- aaa.cer
- aaa.key
- AKI SIP CASE(1029225806).rar
- avira_antivir_personal_en.exe
- benson.cer**
- benson.key
- Benson_root_ca.cer
- c4files.zip
- c4pki.zip
- Central Site
- CesarFTP
- Colasoft Pa
- config-2009
- config-2009
- DCS-2102_
- DFL-210 ba
- DFL-210-ip
- DFL-800-ip
- DFL-1600-i
- DGE-528T_
- DHCP Serv
- dsn3200.ic
- DWL3140_

File name:

Files of type:

Upload X.509 private key

Now upload a private key matching the newly uploaded certificate

General

Choose file

Look in: Desktop

- 6.jpg
- 7.jpg
- 8.jpg
- 9.jpg
- 11.pcap
- 111.jpg
- 980827(0827171044).cap
- aaa.cer
- aaa.key
- AKI SIP CASE(1029225806).rar
- avira_antivir_personal_en.exe
- benson.cer
- benson.key**
- Benson_root_ca.cer
- c4files.zip
- c4pki.zip
- Central Site
- CesarFTP
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- config-2009
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- DCS-2102_
- DFL-210 ba
- DFL-210-ip
- DFL-800-ip
- DFL-1600-i
- DGE-528T_
- DHCP Serv
- dsn3200.ic
- DWL3140_

File name:

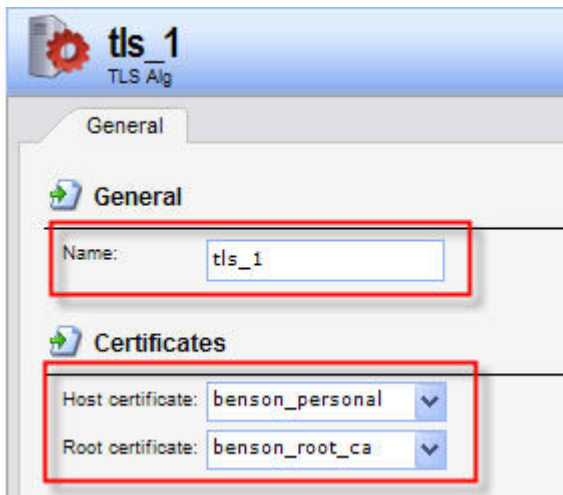
Files of type: All Files (*.*)

Authentication Objects

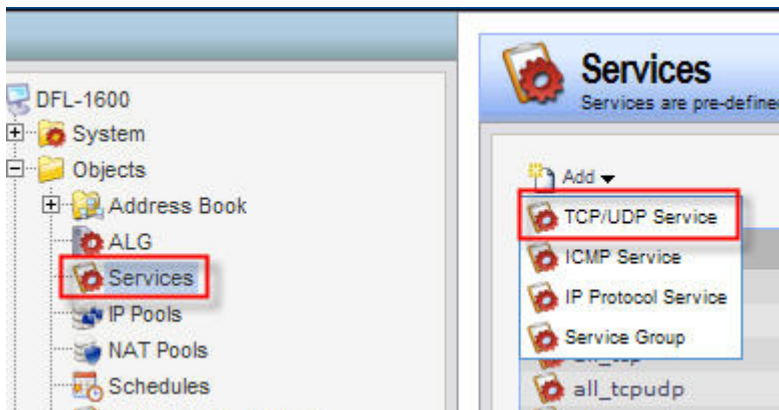
Add, remove and modify Pre-Shared Keys and Certificates.

Name	Type	Type
benson_personal	Certificate	Local
benson_root_ca	Certificate	Remote
HTTPSAdminCert	Certificate	Local

11. Add a TLS_ALG.



12. Add a TLS Service.



http-tls_service
A TCP/UDP Service is a definition of an TCP or UDP protocol with specific parameters.

General

General

Name: http-tls_service

Type: TCP

Source: 0-65535

Destination: 443

Enter port numbers and/or port ranges separated by commas. For example: 137-139,445

Pass returned ICMP error messages from destination

SYN flood protection (SYN Relay)

Application Layer Gateway

An Application Layer Gateway (ALG), capable of managing advanced protocols, can be specified for this service.

ALG: tls_1

Max Sessions: 200

Specifies how many concurrent sessions that are permitted.

13. Add SAT/ALLOW IP-Rules.

http_tls_sat
An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General Log Settings NAT **SAT** Multiplex SAT SLB SAT SLB Monitors

General

Name: http_tls_sat

Action: SAT

Service: http-tls_service

Schedule: (None)

Address Filter

Specify source interface and source network, together with destination interface and destination network. All parameters have default values.

	Source	Destination
Interface:	any	core
Network:	all-nets	wan1_ip

http_tls_sat
An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General Log Settings NAT **SAT** Multiplex SAT SLB SAT SLB Monitors

General

Translate the

Source IP

Destination IP

to:

New IP Address: 192.168.1.2

New Port: 80

All-to-One Mapping: rewrite all destination IPs to a single IP

This value may only be applied on TCP/UDP services with port set to

http_tls_allow
An IP rule specifies what action to perform on network traffic that matches the specified filter criteria.

General Log Settings NAT SAT Multiplex SAT SLB SAT SLB Monitors

General

Name: http_tls_allow

Action: Allow

Service: http-tls_service

Schedule: (None)

Address Filter

Specify source interface and source network, together with destination interface and destination network. All parameters have

Source Destination

Interface: any core

Network: all-nets wan1_ip

IP Rules
IP rules are used to filter IP-based network traffic. In addition, they provide means for address translation as well as Server Load Balancing.

Add

#	Name	Action	Src If	Src Net	Dest If	Dest Net	Service
1	wan_lan	Allow	any	all-nets	any	all-nets	http-tls_service
2	http_tls_sat	SAT	any	all-nets	core	wan1_ip	http-tls_service
3	http_tls_allow	Allow	any	all-nets	core	wan1_ip	http-tls_service
4	ping_fw	Allow	lan1	lan1net	core	lan1_ip	ping-inbound
5	lan1_to_wan1						

14. Use HTTP_Client to connects <https://10.1.1.12>, if cusses, you can see HTTP_Server web information.