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.

🧴 Add or Rem	iove Programs		
Change or Remove Programs	Currently installed programs: Trypto4 PKI <u>Click here for support info</u> To change this program	ormation. indows Components Wizard	Sort by: Name Size <u>8.09MB</u> Used <u>occasionally</u> Last Used On 11/24/2009
Add <u>N</u> ew Programs Add/Remove Windows Components	명 Remote Administration @ VMware Tools 명 WinPcap 4.0.2 제 Wireshark 1.0.2	Windows Components You can add or remove components of Windows. To add or remove a component, click the checkbox. A sh part of the component will be installed. To see what's inclu Details. Components:	aded box means that only ided in a component, click
		Image: Construction of the second	4.5 MB 24.6 MB 1.4 MB 1.1 MB 22 ∩ MR ertificates for use with Details
		< <u>B</u> ack <u>N</u> ext>	Cancel Help

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:



Encoding method:

O DER

C 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 Certific	ate Services - Microsoft Internet Explorer
<u>Eile E</u> dit <u>V</u> iew	F <u>a</u> vorites <u>T</u> ools <u>H</u> elp
🔇 Back 🝷 🕥 🝷 💽	🛐 😰 🏠 🔎 Search 👷 Favorites 😻 Media 🤣 🔝 🗸 🔜
Address 🙆 http://12	7.0.0.1/certsrv/certrqma.asp
Microsoft Certificat	e Services Benson_CA
Advanced Certific	ate Benuest
Auvanceu certino	are nequest
Identifying Informa	rtion:
Name:	benson
E-Mail:	benson@dlink.com
Company:	dlink
Department:	tsy
- spannen	
City:	taipei
State:	twd
Country/Region:	tw
Type of Certificate	Needed: SSL/TLS using Server Authentication Certificate
[Server Authentication Certificate
Ļ	
Key Options:	
	O Create new key set ○ Use existing key set
CSP:	Microsoft Enhanced Cryptographic Provider v1.0
Key Usage:	C Exchange C Signature 💿 Both
Key Size:	1024 Min: 384 Mac:16384 (common keys tzes: 512 1024 2048 4096 8192 16384)
	Automatic 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.

	w (Evolucial Toolal Toola
Back 🝷 🕤	🕣 📧 💰 🔎 Search 👷 Favorites 😻 Media 🧀 🕫 😓 🚍
İdress 🙆 http	://127.0.0.1/certsrv/certfnsh.asp
<i>Microsoft</i> Cert	ificate Services Benson_CA
Certificate Per	nding
/our certificate	request has been received. However, you must wait for an administrator to issue the certificate you requested
/our certificate	request has been received. However, you must wait for an administrator to issue the certificate you requested
/our certificate /our Request I	request has been received. However, you must wait for an administrator to issue the certificate you requested Id is 7.
/our certificate /our Request I	request has been received. However, you must wait for an administrator to issue the certificate you requested Id is 7.
/our certificate /our Request I Please return t	request has been received. However, you must wait for an administrator to issue the certificate you requested Id is 7. Io this web site in a day or two to retrieve your certificate.
/our certificate /our Request Please return t lote: You must	request has been received. However, you must wait for an administrator to issue the certificate you requested Id is 7. to this web site in a day or two to retrieve your certificate. return with this web browser within 10 days to retrieve your certificate

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

Start > mmc

Add/Remove Snap-in	? ×	7	
Standalone Extensions	Add Standalone Snap-in		<u>?×</u>
Use this page to add or remove a standalone Snap-in from the console. Snap-ins added to: Console Root Certificate Templates Certificates - Current User Certification Authority (Local)	Available Standalone Snap-ins: Snap-in Active Directory Domains and Trusts Active Directory Sites and Services Active Directory Users and Comput ActiveX Control Authorization Manager Certificate Templates Certificates Certificates Component Services	Vendor Microsoft Corporation Microsoft Corporation	
Description Add Bernove About	Description The Certificate Templates snap-in allows ye certificate templates.	ou to create and manage	e
ОК Са	incel		

🚡 Console1 - [Console Root\Certifica	ation Authority (Local)\Benso	on_CA\Pending Requests	1	
🚡 Eile Action View Favorites <u>W</u>	<u>V</u> indow <u>H</u> elp			_8×
Console Root	Request ID Binary Request	Request Status Code	Request Disposition Message	Request Submis
Certificates - Current User	All Tas <u>k</u> s 🕨	View Attributes/Extension:	Taken Under Submission	11/25/2009 1:3
	Refresh	Export Bi <u>n</u> ary Data		
Trusted Root Certification Aut The Enterprise Trust	Help	Issue		
🗄 📄 Intermediate Certification Aut		Deny		
Active Directory User Object				
Third-Party Root Certification				
Trusted People Certificate Enrollment Reques				
Certificates				
En SPC				
Benson_CA				
Revoked Certificates				
Issued Certificates				
Failed Requests				
Alternative Alternative				
I F	•			F
Contains operations that can be performed	on the object.			

7. Copy this CA.



Certif	icates can be exported in a variety of file formats.
Select	: the format you want to use:
0	DER encoded binary X.509 (.CER)
C	Base-64 encoded X.509 (.CER)
C	Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
	\square Include all certificates in the certification path if possible
C	Personal Information Exchange - PKC5 #12 (,PFX)
	\square Include all certificates in the certification path if possible
	Enable strong protection (requires IE 5.0, NT 4.0 SP4 or above)
	\square Delete the private key if the export is successful

icate Export Wizard				
le to Export Specify the name of the file you	ı want to export			
<u>Fi</u> le name:				t
C:\benson.cer				Browse
		< <u>B</u> ack	<u>N</u> ext >	Cano

8. Download benson.pfx.



Certificate Export Wizard	x
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?	
Yes, export the private key No. do not export the private key	
Cancel Cancel	

	ates can be exported in a variety of file formats.
Select (he format you want to use:
С	DER encoded binary X.509 (.CER)
С	Bage-64 encoded X.509 (.CER)
C	Cryptographic Message Syntax Standard - PKC5 #7 Certificates (.P7B)
	Include all certificates in the certification path if possible
•	Personal Information Exchange - PKC5 #12 (.PFX) Include all certificates in the certification path if possible
	 Enable strong protection (requires IE 5.0, NT 4.0 SP4 or above) Delete the private key if the export is successful

Password To maintain security, you must protect the private key by using a password. Type and confirm a password. Password: **** Confirm password: ****	×
Type and confirm a password. Password: **** Confirm password: ****	
Password: **** Confirm password: ****	
**** Confirm password: ****	
Confirm password:	

< <u>B</u> ack <u>N</u> ext > Cance	1



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

Open		<u>? ×</u>
Look in: 🞯 Desktop	÷ .	💼 💣 🎟 -
My Documents aca My Computer My Network Places C4files C4pki Ca	1 nson.pfx _test01.pfx	
File name: benson.pfx Files of type: PKCS#12 Cert	ificate (*.pfx;*.p12)	 Cancel
🛃 Crypto4 PKI - Certificat	e Converter	_ 🗆 🗙
Convert the certificate	to different format	
Select the file to load the cert	ificate from and if necessary, pr	ovide fi <mark>le password</mark>
File Name:	0.00.000	Browse
Key Name:		Browse

Convert the	certificate to different format	
Select the file to	load the certificate from and if necessary, provide file	e password
File Name: C:	\Documents and Settings\Administrator.V2K3ES	Browse
Password:	4	

Save certificate	<u>? ×</u>
Save in: 🞯 Desktop 🖉	-== * 📾 🗕
My Documents Cal My Computer My 123.cer My Network Places Embenson.cer Cafiles My Its_test01.cer Cafiles Ca	
File <u>name</u> : <u>benson_no_use.cer</u> Save as <u>type</u> : DER-encoded Certificate (*.cer)	Cancel
🚰 Crypto4 PKI - Certificate Converter	_ 🗆 🗵
Convert the certificate to different format	
Select the file to save the certificate to and if necessa	ry, provide file password
File Name: C:\Documents and Settings\Administrate	or.V2K3ES Browse
Key Name: C:\Documents and Settings\Administrate	or.V2K3ES Browse
Export private key	
< <u>B</u> ack	<u>N</u> ext> Exit

Save private key			<u>?</u> ×
Save in: 🞯 Desktop	1	- 🖛 💼 e	* 📰 •
My Documents Cal My Computer My Network Places Cafiles Cafiles Ca	еу		
File <u>n</u> ame: benson.key			<u>S</u> ave
Save as type: Private keys (*.kej	y)	•	Cancel
🚰 Crypto4 PKI - Certificate (onverter		
Convert the certificate to	different format		
Select the file to save the certific	ate to and if necess	ary, provide file	password
File Name: C:\Documents and	l Settings\Administra	ator.V2K3ES	Browse
Key Name: C:\Documents and	l Settings\Administra	ator.V2K3ES	Browse
Export private key			
	< <u>B</u> ack	<u>N</u> ext >	Exit

🛃 Crypto4	PKI - Certificate Converter	
Convert	the certificate to different format	
Select the fil	e to save the certificate to and if necessar	y, provide file password
File Name:	C:\Documents and Settings\Administrate	r.V2K3ES Browse
Key Name:	C:\Documents and Settings\Administrate	or.V2K3ES Browse
Export priva	te keyi ⊽	Next > Exit

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



/ Ocherai		
C:\Document	s and Settings\benson\Desktop\Benson_root_caBrowse	
Upload	C509 certificate	
noose file		? ×
Lookir	n 🔯 Deskton	·
Looki		
	My Documents	SVMware W
	My Computer	Wish Consi
My Recent Documents	My Network Places	
	Actions Disk Director Server	C4riles
	Active I of Wish Console IXUS 5.30.450.27 EA-SP2-Patch I	
Deskton	Autobe Activity Julio and 4 20 122 25 EA	
F	Avira AntiVir Control Center	inerf
	Isia Application Selector	
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	Nero StartSmart	2.ipg
	QuickTime Player	📷 3.jpg
	Skype	🛐 4.jpg
My Computer	🦻 Snaglt 8	🛐 5.jpg
~		E.

Upload a pre Opload a pre General	X.509 certifi viously created X.509	icate Certificate		
			Browse	
Upload 3	X.509 certificate			
Choose file				? ×
Look in	n: 🞯 Desktop		* 🖬 🔶 💽	
My Recent Documents Desktop My Documents	 6.jpg 7.jpg 9.jpg 9.jpg 11.jpg 980827(082' aaa.cer aaa.key AKI SIP CAS Avira_antivir benson.cer benson.key Benson rool 	7171044).cap SE(1029225806).rar _personal_en.exe]		c4pki.zip Central Site Central Site Colasoft Pa Colasoft Pa Config-2005 Config-2005 Config-2005 Config-2005 DCS-2102 DFL-210 ba DFL-210 ba DFL-210-ip DFL-210-ip DFL-800-ip DFL-1600-i DFL-1600-i DFL-1600-i CGE-528T DHCP Serv CGE-528T CGE-528T CGE-528T
My Computer	C4files.zip			DWL3140_
My Network Places	File name: Files of type:	All Files (*.*)	<u> </u>	Cancel

Vpload Now upload a	X.509 private key private key matching the newly uploaded certificate	
射 General		
Upload X	Browse	
Choose file		? ×
Look in:	🞯 Desktop 💌 🔹	- 🛍 🖆 🎟 -
My Recent Documents Desktop My Documents My Computer	 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_cot_ca.cer c4files.zip 	C4pki.zip Central Site P CesarFTP Colasoft Pa Config-2005 Config-2005 Config-2005 Config-2005 DCS-2102 DFL-210 ba DFL-210 ba DFL-210-ip DFL-210-ip DFL-800-ip DFL-1600-i DFL-1600-i COE-528T DFL-900-i DFL-900-i DFL-1600-i DFL-1
Places	Files of type: All Files (*.*)	Cancel

 Name *
 Type *
 Type *

 Name *
 Certificate
 Local

 Denson_personal
 Certificate
 Remote

 HTTPSAdminCert
 Certificate
 Local

11. Add a TLS_ALG.

EL 1600			ALG	
System			Application	i Layer
Objects		-	Add 👻	
E 🙀 Address Boo	ok		FTP ALG	1
ALG			TETP ALG	
Services			SIPALG	nd
IP Pools			H 323 ALG	al
NAT Pools			UTTO ALC	und
Schedules			ALC NO	hrou
Authenticatio	in Objects		SMIP ALG	
t VPN Objects	_		POP3 ALG	oun
HTTP Banner	Files	0	TLS ALG	
Rules			SIP	
Rules Interfaces tls_1 TLS Alg General			SIP	
Rules Interfaces tls_1 TLS Alg General General			SIP	
Rules Interfaces Inter	's_1		SIP	
Rules Interfaces tls_1 TLS Alg General General Centificates Certificates	ls_1		SIP	
Rules Interfaces tls_1 TLS Alg General General Name: t Certificates Host certificate: b	ls_1		SIP	

12. Add a TLS Service.



General		
🕑 General		
Name:	http-tls_service	e
Туре:	тср	
Source:	0-65535	
Destination:	443	
Constant and	augustana and/ar and	Francisco 127 120 445
 Enter port Pase SYI Applicat 	numbers and/or port ss returned ICMP erro N flood protection (S ion Layer Gatev	t ranges separated by commas. For example: 137-139,445 for messages from destination SYN Relay) Way
Enter port Pas SY Applicat	numbers and/or port as returned ICMP erro N flood protection (S ion Layer Gatew Layer Gateway (ALG	t ranges separated by commas. For example: 137-139,445 for messages from destination SYN Relay) Way G), capable of managing advanced protocols, can be specified for this s
Enter port Pas SY Applicat An Application ALG:	numbers and/or port ss returned ICMP erro N flood protection (S ion Layer Gateway (ALG tls_1	t ranges separated by commas. For example: 137-139,445 for messages from destination SYN Relay) Way 3), capable of managing advanced protocols, can be specified for this s

13. Add SAT/ALLOW IP-Rules.

Gener	al Log Settings	NAT	SAT M	ultiplex SAT	SLB SAT	SLB Monitors
Gene	ral					
Name:	http_tls_sat					
Action:	SAT	~				
Service:	http-tls_service	~				
Schedule:	(None)	~				
Addr	ess Filter					
	ource interface and sourc	e network,	together with destin	ation interface a	and destination	network. All parameter
Specify so			Destination		_	
Specify so	Source					
Specify so Iterface:	Source	~	core	~		

P/UDP services with port set to	General Islate the Source IP Destination IP New IP Address: 192.168.1.2 0 0 Alto-One Mapping: rewrite all destination IPs to a single IP http_tls_allow All-to-One Mapping: newrite all destination IPs to a single IP http_tls_allow All-to-One Mapping: NAT All-to-One Mapping: NAT All-to-One Mapping: newrite all destination IPs to a single IP All-to-One Mapping: newrite all destination IPs to a single IP All-to-One Mapping: NAT All-to-One Mapping: NAT Address Mittp-tls_service		Log Settings	NAT	SAT Multip	olex SAT SL	B SAT SL	B Monitors	
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P/UDP services with port set to r onteria. SLB Monitors	Source IP Destination IP New IP Address: New Port: 80 All-to-One Mapping: rewrite all destination IPs to a single IP http_tls_allow An IP rule specifies what action to perform on network traffic that matches the specified filter ontenia. General Log Settings NAT Saurce NAT Support National state sta	ranslate th	e						
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SLB Monitors	General Log Settings NAT SAT Multiplex SAT SLB SAT SLB Monitors General me: http_tls_allow Image: Allow								
	General me: http_tls_allow Allow > http-tls_service > hedule: (None) Address Filter ecify source interface and source network, together with destination interface and destination network. All parameters have	Genera	al Log Settings	NAT	SAT Multi	plex SAT S	LB SAT SI	_B Monitors	
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	tion: Allow http-tls_service hedule: (None) Address Filter ecify source interface and source network, together with destination interface and destination network. All parameters have	Name:	http_tls_allow						
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	face: any core v work: all-nets v wan1_ip v	Service: Schedule: Addre Specify so nterface: letwork:	(None) ess Filter urce interface and source Source any all-nets	ce network, toge De C	ther with destinati estination ore an1_ip	on interface and de	stination network.	All parameters hav	
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	face: any core work: all-nets wan1_ip PRules rules are used to filter IP-based network traffic. In addition, they provide means for address translation as well as Server Load Balancing.	Service: Schedule: Addre Specify so nterface: letwork: IP rules are us	(None) ess Filter urce interface and source Source any all-nets ed to filter IP-based network traffic.	De network, toge De C W W In addition, they provide	ther with destination estination ore an 1_ip e means for address trans	on interface and de	stination network. Balancing.	All parameters hav	
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14. Use HTTP_Client to connects <u>https://10.1.1.12</u>, if cusses, you can see HTTP_Server web information.