How to set up IPSec Site to Site VPN with Xauth



DFL-260E set up SOP (XAuth Server)

1. Create Authentication Objects

Add > Pre-Shared Key

	s hased on a shared serret that is known only by the parties involved
General	
划 General	
Name: key	
Shared Secret	
Passphrase	
Shared Secret: ••••••	Note! Existing secret will always be shown with 8 characters to hide the actual length.
Confirm Secret:	
Commit Geget	

2. Create IPsec

Interface > IPsec > Add > IPsec Tunnel

General

General Aut	nentication XAuth	Routing IKE Settings Keep-alive Advanced
General		
Name:	site_to_site_vpn	
Local Network:	lannet	
Remote Network:	192.168.1.0/24	
Remote Endpoint:	1.1.1.254	
Encapsulation mode:	Tunnel	✓
IKE Config Mode Pool:	(None)	v
Algorithms		
IKE Algorithms:	Medium	Notice: Both sides must have setting same IKE Algorithms.
IKE Lifetime:	28800	seconds
IPsec Algorithms:	Medium	V I
IPsec Algorithms: IPsec Lifetime:	Medium 3600	seconds

Authentication

	nucation	XAuth Routin	g IKE Settings	Keep-alive	Advanced	
Authentication						
X.509 Certificate						
Root Certificate(s)						
Available		Sele	ected			
in restantion	14					
		< <				
Gateway certificate:	(None)					
Gateway certificate: Identification list:	(fione) (None)					

XAuth

😚 site_to_site_vpn_xa	uth	
General Authentication	XAuth Routing IKE Settings Keep-alive Advanced	
彭 IKE XAuth		
Off	na far inhaund IBrea tunnals	
Pass username and password to pee	via IKE XAuth, if the remote gateway requires it	
Username:		
Password:	Note! Existing passwords will always be shown with 8 characters to hide the actual length.	
Confirm Password:		

3. Create IP Rules

Site_To_Site_Outgoing

Genera	Log Settings	NAT	SAT Multiple	AT SAT	
Genera	E Cog Coungo	14/11		a on	
🕖 Gene	ral				
Name:	Site_To_Site_outgoin	ng			
Action:	Allow	~			
Service:	all_services	~			
Schedule:	(None)	*			
🔰 Addre	ess Filter				
Specify sou	rce interface and source n	etwork, to	gether with destination in	terface and	network. All parameters have to match for the rule to match.
	Interface		Network		
iource:	lan	*	lannet	*	
			10		

Site_To_Site_Incoming

Genera	Log Settings	NAT	SAT Multiple	ex SAT	
🕑 Gener	ral				
Name:	Site_To_Site_Incom	ning			
Action:	Allow	~			
Service:	all_services	~			
Schedule:	(None)	~			
		1			
Addre 🕽	ss Filter				
Specify sour	rce interface and source	network, to	gether with destination in	terface a	destination network. All parameters have to match for the rule to match.
	Interface		Network		
ource:	site_to_site_vpn	*	192.168.1.0/24	~	
		-			

4. Create administrators groups account

User Authentication > Local User Databases > AdminUsers > Users > Add

General	6H Public Key		
General			
Name:	xauth		
^p assword:		Note! Existing passwords will always be shown with 8 characters to hide the actual length.	
Confirm Password:			
Groups:	administrators		
Comma ser	parated list of groups		
Users that are m	embers of the 'administra	ors' group are allowed to change the firewall configuration.	

5. Create Authentication Rules

User Authentication > User Authentication Rules \ Add General



Authentication Options

General Log Settings	Authentication Options Accounting Agent C	Options Restrictions	
General			
Select one or more authentication s	evers. Also select the authentication method, which is used for en	counting the user password	
RADIUS servers			
Available	Selected		
	>>		
	Move up Move down		
DAP servers	Move up Move down		
DAP servers Available	Move up Move down		
DAP servers Available	Move up Move down		
DAP servers Available	Move up Move down		
DAP servers Available	Move up Move down Selected		
DAP servers Available	Move up Move down Selected		
.DAP servers Available	Move up Move down Selected		
DAP servers Available	Move up Move down Selected		

DFL-210 set up SOP as follow DFL-260E.

- 1. Pre-Shared Key must same as DFL-260E, name & password. It must use the same create setting.
- 2. Create IPsec

Interface > IPsec > Add > IPsec Tunnel

General

General Aut	nentication XAut	th Routing IK	E Settings Keep-aliv	Advanced		
Conoral						
General	within the within					
vame.	site_to_site					
Local Network:	lannet	~				
Remote Network:	192.168.10.0/24	~				
Remote Endpoint:	2,2.2.254	~				
Encapsulation mode:	Tunnel	~				
KE Config Mode Pool:	(None)	~				
Algorithms						
KE Algorithms:	Medium	~				
KE Lifetime:	28800		seconds			
	E State Stat					
Psec Algorithms:	Medium	~				
Psec Algorithms: Psec Lifetime:	Medium 3600	~	seconds	i		

Authentication

Authentication		
X.509 Certificate		
Root Certificate(s)		
Available	Selected	
HTTPSAdminCert		
	>>	
Gateway certificate: (fione)		
Gateway certificate: (None)		
Gateway certificate: (fione) Identification list: (None)		

XAuth

General Auth	enucation XAutr	n Routing	IKE Settings	Keep-alive	Advanced			
IKE XAuth	Notice: This	IKE XAuth	informatio	on must s	me as X	Auth Serv	er accour	t setting.
Off								
Require IKE XAuth	user authentication for i	inbound IPsec tunnels					_	
Require IKE XAuth	user authentication for i password to peer via IK	inbound IPsec tunnels	s e gateway requires it					
Require IKE XAuth Pass username and Username:	user authentication for password to peer via IK xauth	inbound IPsec tunnels	i e gateway requires it				٦	
Require IKE XAuth Pass username and Username: Password:	user authentication for i password to peer via IK xauth	inbound IPsec tunnels	e gateway requires it	wavs be shown wit	8 characters to b	te the actual leng	h	

3. Create IP Rules

Site_To_Site_Outgoing

Genera	Log Settings	NAT	SAT Multiple	x SAT	
Gener	al				
Name:	Site_To_Site_outgo	ing			
Action:	Allow	~			
Service:	all_services	~			
Schedule:	(None)	~			
	h				
Addre	ss Filter				
Specify sour	ree interface and source	network, to	gether with destination int	erface an	nation network. All parameters have to match for the rule to match.
	Interface		Network		
ource:	lan	*	lannet	*	
	The second s	Contraction of the local division of the loc		No. of Concession, Name	

Site_To_Site_Incoming

Genera	Log Settings	NAT	SAT Multiple	x SAT	
📝 Gene	ral				
Name:	Site_To_Site_inco	ming			
Action:	Allow	~			
Service:	all_services	~			
Schedule:	(None)	~			
Addre	ess Filter				
Specify sou	rce interface and sour	oe network, to	gether with destination int	erface and	tination network. All parameters have to match for the rule to match.
	Interface		Network		
ource:	site_to_site	*	192.168.10.0/24	*	
	1000	1777	Transport	1000	

Test:

Use ping command ping PC1 in PC2, if ICMP has response is work.



You can check firewall log in XAuth Server (DFL-260E) this firewall.

Date	Severity	Category/ID	Rule	Proto	Src/DstIf	Src/DstIP	Src/DstPort	Event/Action			
2011-08-01 07:01:55	Info	CONN 600001	Site_To_Site_Incoming	ICMP	site_to_site_vpn_xauth lan	192.168.1.10 192.168.10.10		conn_open			
conn=open connsrcid=1085 conndestid=1085											
2011-08-01 07:01:55	Info	CONN 600001	IPsecBeforeRules	ESP	wan core	1.1.1.254 2.2.2.254		conn_open			
conn=open connsrcid=0 conndestid=0											
2011-08-01 07:01:55	Notice	USERAUTH 3700102				192.168.1.0	[user_login			
idle_timeout=1	1800 sessi	on_timeout=0 a	uthrule=xauth authagent=X	AUTH a	uthevent=login username=">	kauth"					
2011-08-01 07:01:55	Info	IPSEC 1803021			42.002			ipsec_sa_statistics			
done=1 success=1 failed=0											