

SecureFirst

Configuring Site-to-Site VPN over OSPF using Command Line KNOWLEDGE DATABASE



Configuring Site-to-Site VPN

over OSPF using Command Line

OBJECTIVE: Configuring site-to-site VPN over OSPF. The routing protocols can you used carry the traffic across the VPN and will provide seem less inter connectivity from one site to another seamlessly.

WHY SHOULD WE CONFIGURE SITE-TO-SITE VPN OVER OSPF?

OSPF over VPN is required if we are running OSPF inside our network and we need to extend the OSPF network to the other end of the site as well.

By configuring the OSPF over VPN dynamically the sites can be added to route the VPN traffic.

Procedure:

Provide detailed instructions; for example:

Step 1: VPN CONFIGURATION IN COMMAND-LINE:

SITE-A CONFIGURATION	SITE-B CONFIGURATION
vpn policy tunnel-interface SiteATOSiteB	vpn policy tunnel-interface SiteBTOSiteA
enable	enable
gateway primary 1.1.1.1	gateway primary 1.1.1.2
auth-method shared-secret	auth-method shared-secret
shared-secret XXXXXXXXXXXXXXXXXXXXXX	shared-secret XXXXXXXXXXXXXXXXXXXXXX
exit	exit
proposal ike exchange main	proposal ike exchange main
proposal ike encryption triple-des	proposal ike encryption triple-des
proposal ike authentication sha1	proposal ike authentication sha1
proposal ike dh-group 2	proposal ike dh-group 2
proposal ike lifetime 28800	proposal ike lifetime 28800
proposal ipsec protocol esp	proposal ipsec protocol esp
proposal ipsec encryption triple-des	proposal ipsec encryption triple-des
proposal ipsec authentication sha1	proposal ipsec authentication sha1
proposal ipsec dh-group none	proposal ipsec durinification shar
proposal ipsec lifetime 28800	proposal ipsec lifetime 28800
keep-alive	keep-alive
bound-to interface X1	bound-to interface X1
allow-advanced-routing	allow-advanced-routing
no transport-mode	no transport-mode
exit	exit



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Step 2: CONFIGURING OSPF OVER VPN:

SITE-A CONFIGURATION	SITE-B CONFIGURATION
router ospf	router ospf
ospf router-id 1.1.1.1	ospf router-id 1.1.1.1
network 1.1.1.0/24 area 0	network 1.1.1.0/24 area 0
default-metric 10	default-metric 10
ļ	1
end	end

Step 3: VERIFICATION:

- 1. When configuring OSPF please make sure the MTU value is configured correctly on the interface or else the OSPF neighbor negotiation will be stuck in 2-way and the OSPF neighbor ship will never reach FULL state.
- 2. The MTU value can be ignored on the SonicWall by setting the **ip ospf mtu-ignore**.

SITE-B CONFIGURATION	
interface TI: SiteATOSiteB	
ip ospf network point-to-point	
ip ospf mtu 1500	
OR	
ip ospf mtu-ignore	
	interface TI: SiteATOSiteB ip ospf network point-to-point ip ospf mtu 1500 OR

