ZyWALL USG-Series

How to setup a Site-to-Site VPN connection between two ZyWALL USG series appliances.
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Introduction

This guide will explain how to configure a site-to-site VPN connection as shown in the picture below:

In the above scenario the clients at the Branch office wants to be able to access the Headquarters entire LAN subnet and vice versa. The setup will be the same regardless what ZyWALL USG model you are using. In this example we will be looking at a ZyWALL USG 100 and ZyWALL USG 200.

To setup this scenario you need to configure the following in both ZyWALL USG’s:

- Address object for remote subnet.
- VPN Gateway.
- VPN Connection.

After configuring these three things on both ZyWALL USG’s, you will have established the connection.
ZyWALL USG 100

Creating the address objects
Go to Configuration → Object → Address and click the Add button. Now create a Subnet address that contains the LAN Subnet of the opposite ZyWALL USG as shown in the picture below:

Creating VPN Gateway
Go to Configuration → VPN → IPSec VPN → VPN Gateway and click the Add button. You need to make sure the Gateway is enabled. Fill in the Interface field with the WAN IP of the ZyWALL USG 100. For Peer Gateway Address you should choose “Static Address” and type in the remote ZyWALL USG 200 WAN IP or Domain/DDNS hostname. You also need to type in a Pre-Shared Key of the VPN connection. This key should match that of the remote ZyWALL USG 200.
Creating VPN Connection
Go to **Configuration → VPN → IPSec VPN → VPN Connection** and click the Add button. Enable the Connection. Under Application Scenario choose Site-to-site. Make sure that you select the correct VPN Gateway, in this case Headquarters. In Local policy select the LAN Subnet of the ZyWALL USG 100. In Remote policy you need to select the Address object created earlier in this guide.

![Add VPN Connection](image.png)

You have now finished the required configurations on the ZyWALL USG 100.
ZyWALL USG 200

Creating the address objects
Go to Configuration → Object → Address and click the Add button. Now create a Subnet address that contains the LAN Subnet of the opposite ZyWALL USG as shown in the picture below:

Creating VPN Gateway
Go to Configuration → VPN → IPSec VPN → VPN Gateway and click the Add button. You need to make sure the Gateway is enabled. Fill in the Interface field with the WAN IP of the ZyWALL USG 200. For Peer Gateway Address you should choose “Static Address” and type in the remote ZyWALL USG 100 WAN IP or Domain/DDNS hostname. You also need to type in a Pre-Shared Key of the VPN connection. This key should match that of the remote ZyWALL USG 100.
VPN Connection

Go to Configuration → VPN → IPSec VPN → VPN Connection and click the Add button. Enable the Connection. Under Application Scenario choose Site-to-site. Make sure that you select the correct VPN Gateway, in this case Branch_Office. In Local policy select the LAN Subnet of the ZyWALL USG 200. In Remote policy you need to select the Address object created earlier in this guide.

![Add VPN Connection](image)

You have now finished the required configurations on the ZyWALL USG 200.
Establish connection

Both ZyWALL USG’s are now configured. The only thing left, is to establish the VPN connection. This can be done manually by selecting your VPN connection and clicking the Connect button in Configuration → VPN → IPSec VPN → VPN Connection. Alternatively you can edit the VPN Connection rule, click Show Advance Settings and enable Nailed-Up. With Nailed-Up enabled the VPN tunnel will connect up automatically when the ZyWALL USG boots up.

All devices at the Branch Office will now be able to access devices and computers on the Headquarters subnet and vice versa.