

How to set up 6to4 on the WAN and autoconf on the LAN

This example shows how to configure your ATP/USG Flex's WAN as IPv4 address and LAN interface as auto-configuration.

In this scenario:

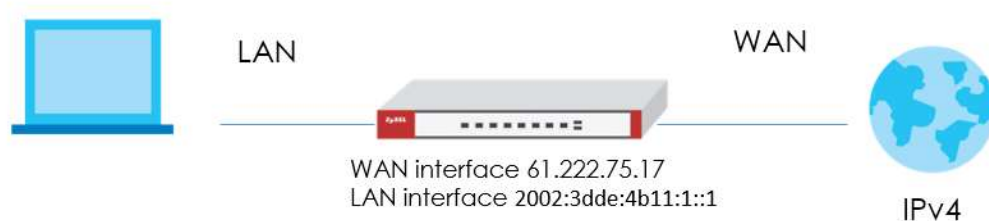
WAN IPv4 Address is 61.222.75.17

DNS Server Set as 2001:4860:4860::8888

LAN Subnet Set as 2002:3dde:4b11:1::/64

As Note: IPv4 must be convert to HEX, this means IP 61.222.75.17 => HEX: **3d.de.4b.11**.

This must be used Prefix+Hex:1/64 is IPv6 IP.



Setting Up the IPv4 Interfaces

Wan

1. In the Configuration > Ethernet > IPv4 Configuration section, double-click the WAN interface you want to modify.
2. Set a IPv4 IP address for example the below IP address is 61.222.75.17.

IPv4 View ▾ [Show Advanced Settings](#) [Create New Object](#)

IP Address Assignment

☐ Get Automatically

☒ Advance

☒ Use Fixed IP Address

IP Address:

Subnet Mask:

Gateway: ((Optional))

Metric: (0-15)

☒ Enable IGMP Support

☒ IGMP Upstream

☐ IGMP Downstream

3. Navigate to CONFIGURATION > Network > Interface > Tunnel > Add, Select Enable. Enter tunnel0 as the Interface Name and select 6to4 as the Tunnel Mode. In the 6to4 Tunnel Parameter section, this example just simply uses the default 6to4 Prefix, 2002::/16. Enter your Relay Router's IP address (192.88.99.1 in this example). Select wan1 as the Gateway. Click OK

Add corresponding

Show Advanced Settings

General Settings

☒ Enable

Interface Properties

Interface Name: tunnel0

Zone: TUNNEL

Tunnel Mode: 6to4

IPv6 Address Assignment

IPv6 Address/Prefix Length: (Optional)

Metric: 0 (0-15)

6to4 Tunnel Parameter

6to4 Prefix: 2002::/16

Relay Router: 192.88.99.1 ((Optional))

NOTE: traffic destined to the non-6to4 prefix domain tunnels to the relay router

☒ Advance

Gateway Settings

My Address

☒ Interface wan Static -- 61.222.75.17/255.255.255.0

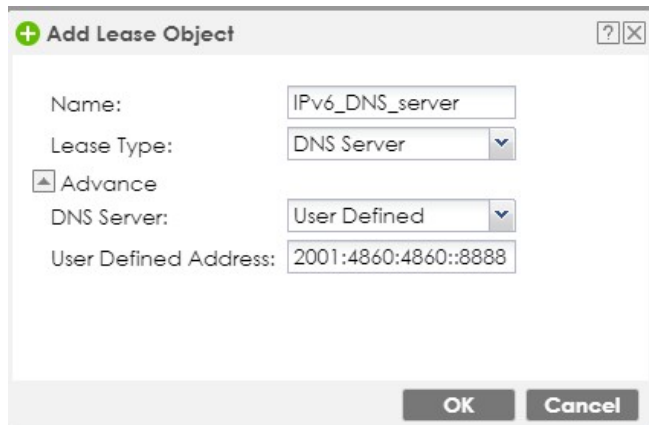
☐ IP Address 0.0.0.0

Remote Gateway Address: Automatic

OK Cancel

Lan

1. Create IPv6 DHCP DNS Server object. (Configuration > Object > DHCPv6 > Lease > Add)



Add Lease Object

Name: IPv6_DNS_server

Lease Type: DNS Server

☒ Advance

DNS Server: User Defined

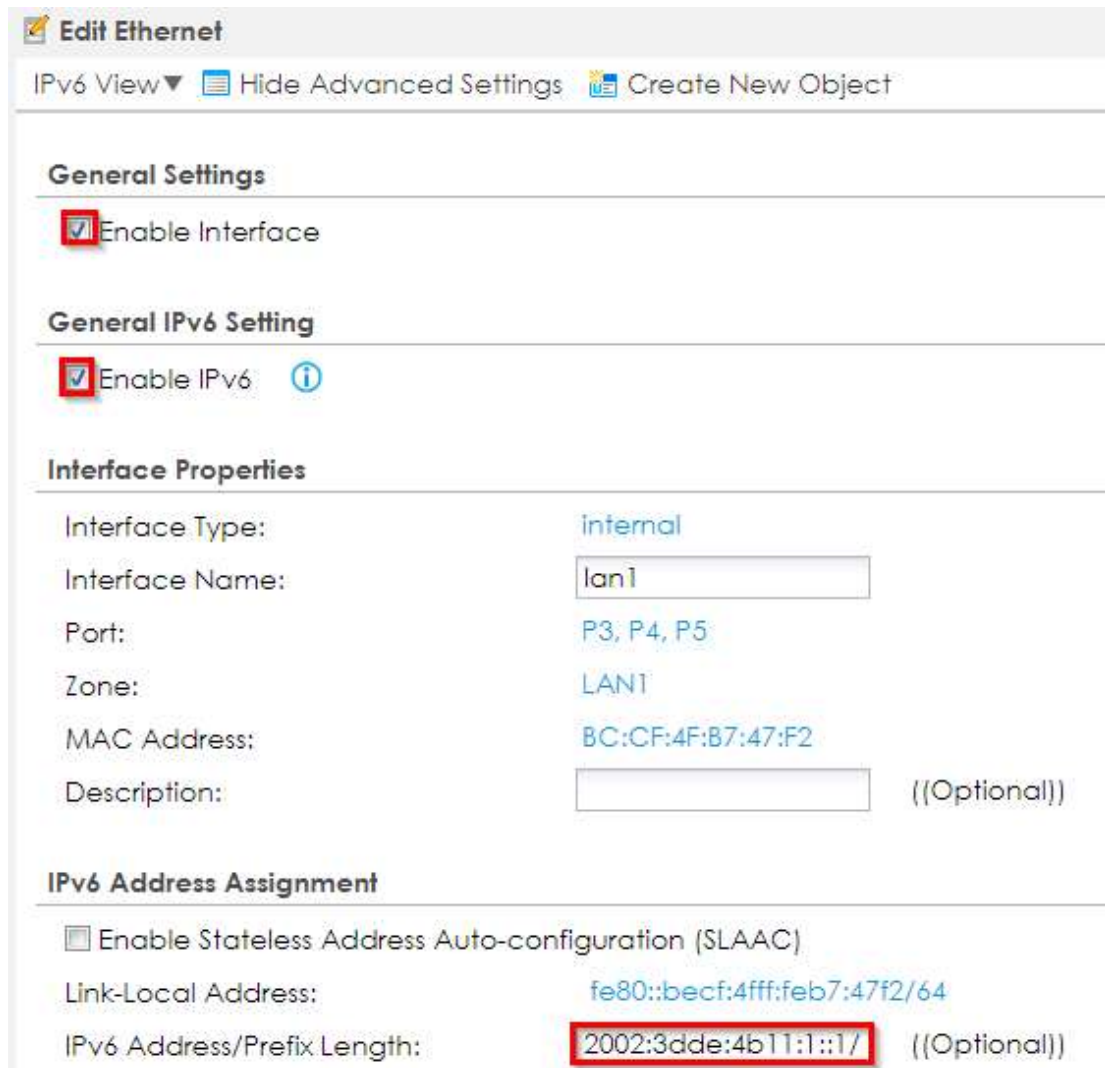
User Defined Address: 2001:4860:4860::8888

OK Cancel

In the Configuration > Ethernet > IPv6 Configuration section, double-click the LAN interface you want to modify.

2. Enable Interface and Enable IPv6.

Key in IPv6 Address/Prefix Length:2002:3dde:4b11:1::1/64



Edit Ethernet

IPv6 View ▾ Hide Advanced Settings Create New Object

General Settings

☒ Enable Interface

General IPv6 Setting

☒ Enable IPv6 ⓘ

Interface Properties

Interface Type: internal

Interface Name: lan1

Port: P3, P4, P5

Zone: LAN1

MAC Address: BC:CF:4F:B7:47:F2

Description: ((Optional))

IPv6 Address Assignment

☐ Enable Stateless Address Auto-configuration (SLAAC)

Link-Local Address: fe80::becf:4fff:feb7:47f2/64

IPv6 Address/Prefix Length: 2002:3dde:4b11:1::1/ ((Optional))

3. Assign IPv6 DNS Server into DHCPv6 Lease Options.

Enable Router Advertisement and enable Advertised Host Get Other Configuration from DHCPv6 checkboxes. Key in Advertised Prefix Table: 2002:3dde:4b11:1::/64

IPv6 View ▾ Hide Advanced Settings Create New Object

DHCPv6 Setting

DHCPv6: Server ▾

DUID: 00:03:00:01:BC:CF:4F:B7:47:F2

▾ Advance

DHCPv6 Lease Options

+ Add Remove References

#	Name	Type	Value ▲
1	IPv6_DNS_server	DNS Server	2001:4860:4860::8888

Page 1 of 1 Show 50 items Displaying 1 -

IPv6 Router Advertisement Setting

☒ Enable Router Advertisement

▴ Advance

☐ Advertised Hosts Get Network Configuration From DHCPv6

☒ Advertised Hosts Get Other Configuration From DHCPv6

Router Preference: Medium ▾

▴ Advance

MTU: 1480 (1280-1500, 0 is disabled)

Hop Limit: 64 (0-255, 0 is disabled)

Advertised Prefix Table

+ Add Edit Remove

#	IPv6 Address/Prefix Length
1	2002:3dde:4b11:1::/64

Page 1 of 1 Show 50 items Displaying 1 -

OK

Test result

```
C:\V\>ping 2002:3dde:4b11:1::1

Ping 2002:3dde:4b11:1::1 (使用 32 位元組的資料):
回覆自 2002:3dde:4b11:1::1: 時間<1ms
回覆自 2002:3dde:4b11:1::1: 時間<1ms
回覆自 2002:3dde:4b11:1::1: 時間<1ms
回覆自 2002:3dde:4b11:1::1: 時間<1ms

2002:3dde:4b11:1::1 的 Ping 統計資料:
    封包: 已傳送 = 4, 已收到 = 4, 已遺失 = 0 (0% 遺失),
    大約的來回時間 (毫秒):
        最小值 = 0ms, 最大值 = 0ms, 平均 = 0ms
```