

How to set up Static IPv6 on WAN and DHCPv6 on the LAN

This example shows how to configure your USG's WAN as Static IPv6 and LAN interface as DHCPv6.

In this scenario:

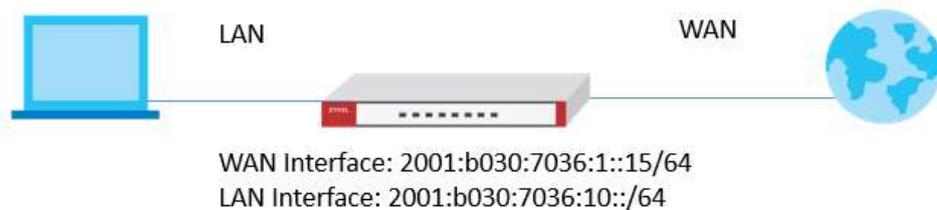
ISP's IPv6 Address is 2001:b030:7036:1::1

ISP Provided 2001:b030:7036:1::15/64 IPv6 IP Address.

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

LAN Subnet Set as 2001:b030:7036:10::/64

LAN DHCP Pool Set as 2001:b030:7036:10::-2001:b030:7036:10::12



Setting Up the IPv6 Interfaces Wan

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

1. Choose IPv6 View and Enable Interface and Enable IPv6.
2. In IPv6Address/Prefix Length text box, key in the Static IPv6 address.

Edit Ethernet [?] [X]

IPv6 View [v] [Show Advanced Settings] [Create New Object]

General Settings

Enable Interface

General IPv6 Setting

Enable IPv6 [i]

Interface Properties

Interface Type: external [v] [i]
Interface Name: ge1
Port: P1
Zone: WAN [v] [i]
MAC Address: BC:99:11:BA:D6:3A
Description: [] (Optional)

IPv6 Address Assignment

Enable Stateless Address Auto-configuration (SLAAC)
Link-Local Address: fe80::be99:11ff:feba:d63a/64
IPv6 Address/Prefix Length: 2001:b030:7036:1::15/ (Optional)

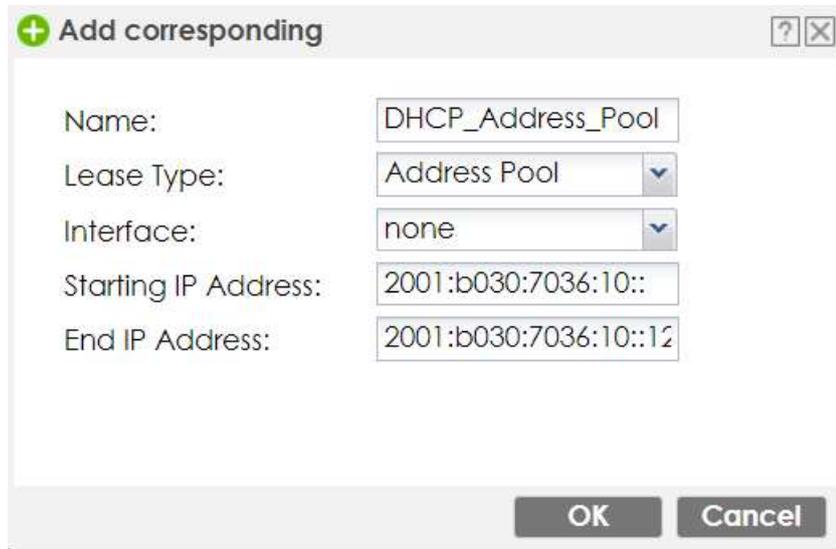
Advance

Gateway: 2001:b030:7036:1::1 (Optional)
Metric: 0 (0-15)

OK Cancel

Lan

1. Create IPv6 DHCP Pool(Configuration > Object > DHCPv6 > Lease > Add)

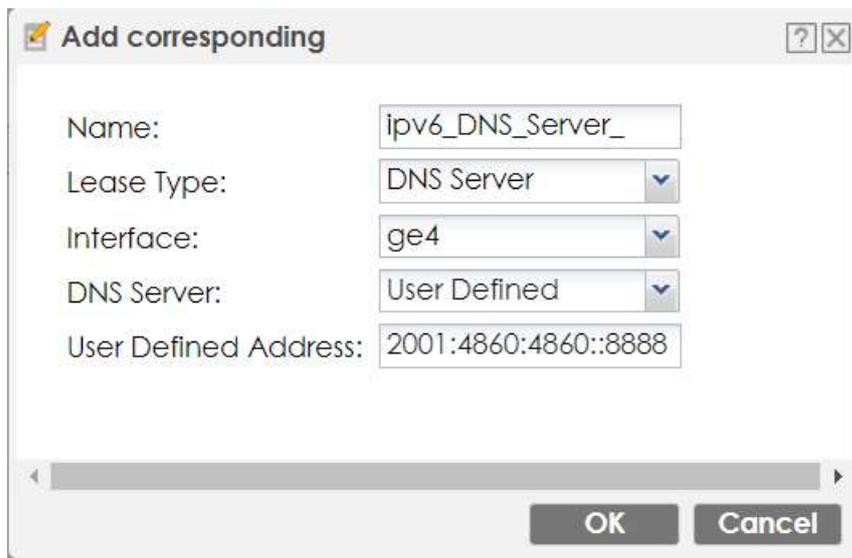


The screenshot shows a dialog box titled "Add corresponding" with a green plus icon on the left and help and close icons on the right. The dialog contains the following fields:

Name:	DHCP_Address_Pool
Lease Type:	Address Pool
Interface:	none
Starting IP Address:	2001:b030:7036:10::
End IP Address:	2001:b030:7036:10::12

At the bottom of the dialog are "OK" and "Cancel" buttons.

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



The screenshot shows a dialog box titled "Add corresponding" with a pencil icon on the left and help and close icons on the right. The dialog contains the following fields:

Name:	ipv6_DNS_Server_
Lease Type:	DNS Server
Interface:	ge4
DNS Server:	User Defined
User Defined Address:	2001:4860:4860::8888

At the bottom of the dialog are "OK" and "Cancel" buttons.

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

3. Enable Interface and Enable IPv6.

Key in IPv6 Address/Prefix Length

✎ Edit Ethernet ?
IPv6 View ▾ 📅 Show Advanced Settings 📄 Create New Object

General IPv6 Setting

Enable IPv6 ?

Interface Properties

Interface Type:	internal ▾	?
Interface Name:	ge4	
Port:	P4	
Zone:	LAN ▾	?
MAC Address:	BC:99:11:BA:D6:3D	
Description:	<input type="text"/>	(Optional)

IPv6 Address Assignment

Enable Stateless Address Auto-configuration (SLAAC)

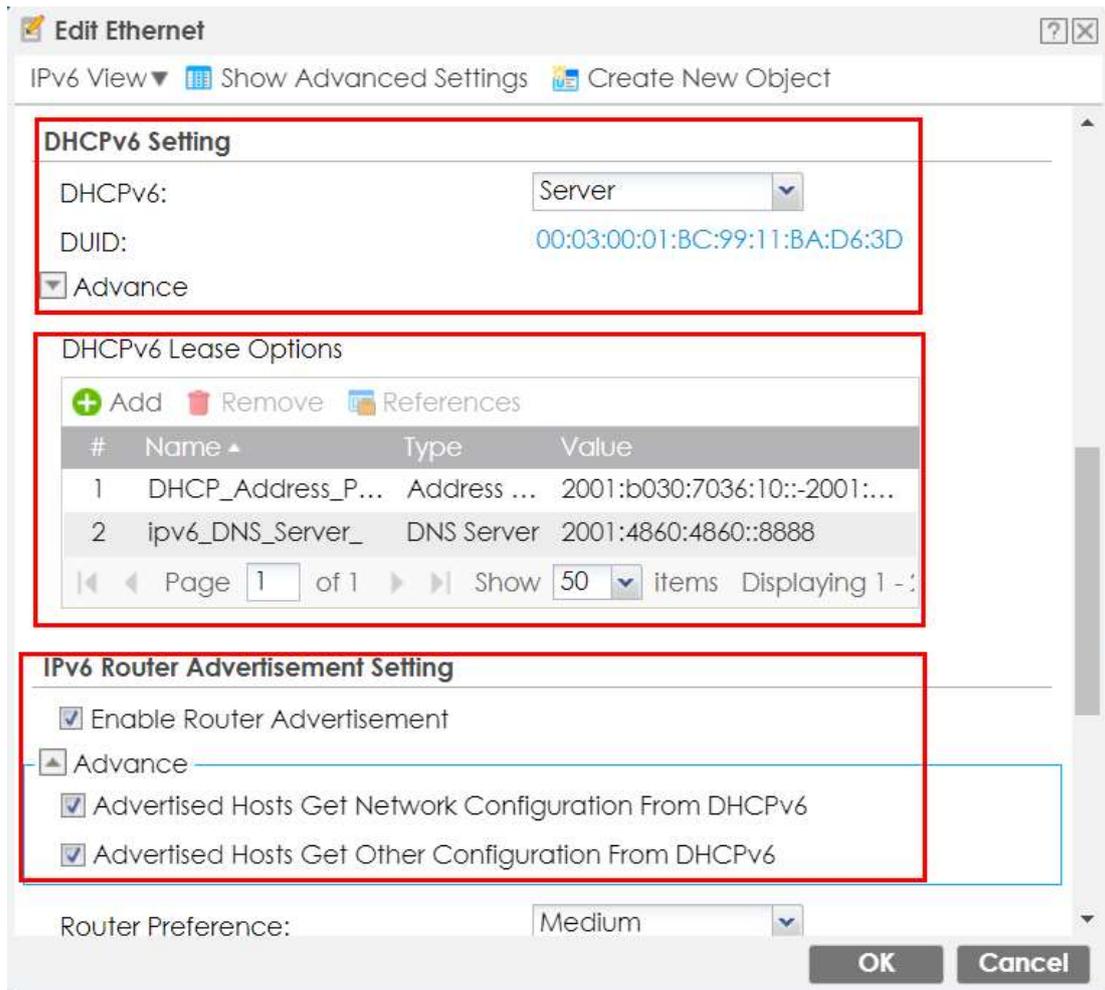
Link-Local Address: fe80::be99:11ff:feba:d63d/64

IPv6 Address/Prefix Length: (Optional)

Advance

4. Scroll down and choose Server for DHCPv6 dropdown menu.
 Navigate to IPv6 Router Advertisement Setting.

5. Enable Router Advertisement, Host Get Network Configuration From DHCPv6 and Hosts Get Other Configuration From DHCPv6 checkboxes.



Test The Result

The screenshot shows the IPv6 test results page. At the top, the browser address bar shows 'test-ipv6.com'. Below it are links for 'IPv6', 'FAQ', and 'Mirrors'.

Test your IPv6 connectivity.

Summary Tests Run Share Results / Contact Other IPv6 Sites

- Your IPv4 address on the public Internet appears to be 61.222.75.14
- Your IPv6 address on the public Internet appears to be 2001:b030:7036:10:6066:ce82:7a55:6d9f
- Your Internet Service Provider (ISP) appears to be HINET Data Communication Business Group
- Since you have IPv6, we are including a tab that shows how well you can reach other IPv6 sites. [\[more info\]](#)
- HTTPS support on this web site is in *beta*. [\[more info\]](#)
- Your DNS server (possibly run by your ISP) appears to have IPv6 Internet access.

Your readiness score
10/10 for your IPv6 stability and readiness, when publishers are forced to go IPv6 only

Click to see [Test Data](#)