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slober - December 16, 2016, 6:26 am

IPv6 and the Firewall

More and more services are enabling IPv6.
More and more ISP's are supporting it to their end users.
And you should to!

Pro: Much Larger Address Space
Pro: Virtually Unlimited Host Addresses per Prefix
Pro: Stateless Autoconfig
Draw: No More IP Scanning

Please check the sources for more information about IPv6

Sources:

[packetlife.net](#)
[Wikipedia.org](#)

Long story short. You don't need to portforward in IPv6
Why? Cause your ISP will give you a /64 prefix 2 to the power of 64 IPv6 addresses.

Code 18 446 744 073 709 551 616 addresses
This is my IPv6 subnet.
Spoiler [\(Click to View\)](#)

So you don't really need to port-forward. But there still is a Firewall that you'll need to configure.
You'll most likely get a screen like this or with similar options.

Spoiler [\(Click to View\)](#)

naam firewall rule: GIVE_A_NAME_TO_RULE
Protocol: chose between TCP, TCP&UDP, ANY or ICMPv6 (pings)
Source: could be a single host or ANY
Port of range: -->

accessing a service:
Just type the port of your service
Ex. You want to access ssh on server X give in port 22

Offering a service
just type 1024:65535

Ex. You want to offer SSH to another client on the interwebs give in 1024:65535

Sounds weird right?

It isn't. When you make a connection to another service you assign a dynamic port to your computer for establishing that connection.

Sources:

<https://support.microsoft.com/en-us/kb/929851>

https://en.wikipedia.org/wiki/List_of_TCP_and_UDP_port_numbers

[https://en.wikipedia.org/wiki/Port_\(computer_networking\)](https://en.wikipedia.org/wiki/Port_(computer_networking))

Destination: Host

IP-adres: GIVE_IN_YOUR_IPv6

port of range:

accessing a service:

1024:65535

offering a service:

Ex. SSH --> 22

Mode:

Accept

open up the firewall ?

Drop

Drop everything close the firewall nothing will get through send no response ?

Block

Block the packet but your nice and send a reply to the client that the packet is being blocked ?

Sources:

[Drop vs Reject](#)