

Ubiquiti

Adding Static IPv6 to EdgeOS

Use the following commands to add the necessary components for IPv6 connectivity. This example was taken from an EdgeRouter X (ERX) with Spectrum Enterprise as the ISP. See comments inline.

Add the IPv6 firewall. If this is already present in the configuration, you can skip to the next section.

```
set firewall ipv6-name WANv6_IN default-action drop
set firewall ipv6-name WANv6_IN description 'WAN inbound traffic forwarded to LAN'
set firewall ipv6-name WANv6_IN enable-default-log
set firewall ipv6-name WANv6_IN rule 10 action accept
set firewall ipv6-name WANv6_IN rule 10 description 'Allow established/related sessions'
set firewall ipv6-name WANv6_IN rule 10 state established enable
set firewall ipv6-name WANv6_IN rule 10 state related enable
set firewall ipv6-name WANv6_IN rule 20 action drop
set firewall ipv6-name WANv6_IN rule 20 description 'Drop invalid state'
set firewall ipv6-name WANv6_IN rule 20 state invalid enable
set firewall ipv6-name WANv6_LOCAL default-action drop
set firewall ipv6-name WANv6_LOCAL description 'WAN inbound traffic to the router'
set firewall ipv6-name WANv6_LOCAL enable-default-log
set firewall ipv6-name WANv6_LOCAL rule 10 action accept
set firewall ipv6-name WANv6_LOCAL rule 10 description 'Allow established/related sessions'
set firewall ipv6-name WANv6_LOCAL rule 10 state established enable
set firewall ipv6-name WANv6_LOCAL rule 10 state related enable
set firewall ipv6-name WANv6_LOCAL rule 20 action drop
set firewall ipv6-name WANv6_LOCAL rule 20 description 'Drop invalid state'
set firewall ipv6-name WANv6_LOCAL rule 20 state invalid enable
set firewall ipv6-name WANv6_LOCAL rule 30 action accept
set firewall ipv6-name WANv6_LOCAL rule 30 description 'Allow IPv6 icmp'
set firewall ipv6-name WANv6_LOCAL rule 30 protocol ipv6-icmp
set firewall ipv6-name WANv6_LOCAL rule 40 action accept
set firewall ipv6-name WANv6_LOCAL rule 40 description 'allow dhcpv6'
set firewall ipv6-name WANv6_LOCAL rule 40 destination port 546
set firewall ipv6-name WANv6_LOCAL rule 40 protocol udp
set firewall ipv6-name WANv6_LOCAL rule 40 source port 547
set firewall ipv6-receive-redirects disable
set firewall ipv6-src-route disable
```

Add static address to Internet interface.

```
set interfaces ethernet eth0 address '26xx:e000:0:8::e:488b/127'
```

Add IPv6 firewall to Internet interface. This may already be present in your configuration.

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```
set interfaces ethernet eth0 firewall in ipv6-name WANv6_IN
set interfaces ethernet eth0 firewall local ipv6-name WANv6_LOCAL
```

Add IPv6 connectivity to the LAN. In this case was the switch0 interface on the ERX. Change to your LAN interface. The prefix is provided by the ISP.

```
set interfaces switch switch0 ipv6 dup-addr-detect-transmits 1
set interfaces switch switch0 ipv6 router-advert cur-hop-limit 64
set interfaces switch switch0 ipv6 router-advert link-mtu 0
set interfaces switch switch0 ipv6 router-advert managed-flag true
set interfaces switch switch0 ipv6 router-advert max-interval 600
set interfaces switch switch0 ipv6 router-advert other-config-flag false
set interfaces switch switc
h0 ipv6 router-advert prefix '26xx:5c00:32e2::/64' autonomous-flag true
set interfaces switch switc
h0 ipv6 router-advert prefix '26xx:5c00:32e2::/64' on-link-flag true
set interfaces switch switc
h0 ipv6 router-advert prefix '26xx:5c00:32e2::/64' valid-lifetime 2592000
set interfaces switch switch0 ipv6 router-advert reachable-time 0
set interfaces switch switch0 ipv6 router-advert retrans-timer 0
set interfaces switch switch0 ipv6 router-advert send-advert true
```

Set a default IPv6 route.

```
set protocols static route6 '::/0' next-hop '26xx:e000:0:8::e:488a'
```

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Author: n/a

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