

# DHCP and SLAAC

I already setup *dnsmasq* for IPv4 and so there is very little that needs to be done to add IPv6 support.

I just needed to add `dhcp-range` lines for each subnet. I am tagging them the same as before and using the `::,constructor:<interface>` syntax to tell *dnsmasq* to determine the the prefix the DHCPv6 range should be valid over from the [GUAs \(Global Unicast Adresse\)](#) (publically routable IPs) on each interface. These were assigned in the previous section ([Prefix Delegation](#)) by *wide-dhcpv6-client*. Declaring `ra-stateless` configures *dnsmasq* to use [SLAAC](#) to automatically configure clients in this prefix.

```
# /etc/dnsmasq.d/dhcp.conf
+ dhcp-range=set:lan,::,constructor:eth1,ra-stateless,12h
+ dhcp-range=set:dmz,::,constructor:eth1.8,ra-stateless,12h
+ dhcp-range=set:warp,::,constructor:eth1.9,ra-stateless,5m
```

Then I enabled router advertisements so *dnsmasq* will broadcast information to any potential clients on the subnet.

```
# /etc/dnsmasq.d/router-advertisements.conf
+ enable-ra
```

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Revision #5

Created 31 March 2021 23:52:01 by dustin@swigg.net

Updated 8 April 2021 13:01:55 by dustin@swigg.net