

Adresse über SLAAC + DHCP6 Zusatzinfo

[/etc/radvd.conf](#)

```
interface enp0s3 {
    AdvSendAdvert on;
    prefix 2001:db8:0:15::/64 {
        AdvOnLink on;
        AdvAutonomous on;
        AdvPreferredLifetime 900;
        AdvValidLifetime 1500;
    };
    AdvDefaultLifetime 1500;
    AdvOtherConfigFlag on;
};

<file txt /etc/dhcp/dhcpd6.conf>
option dhcp6.name-servers 2001:db8:0:910::1;
option dhcp6.domain-search "ipv6-training";

subnet6 2001:db8:0:910::/64 {
}
```

[/etc/default](#)

```
...
INTERFACESv6="eth0"
...
```

DHCP Server Konfiguration für v6 testen:

```
dhcpd -6 -cf /etc/dhcp/dhcpd6.conf -t
```

DHCP Server Leases für v6 testen:

```
dhcpd -6 -cf /etc/dhcp/dhcpd6.conf -t
```

DHCP Server neu starten

```
service isc-dhcp-server restart
```

Sind DHCPv6 Server da?

```
ping -I enp0s3 ff02::1:2
```

DHCP Client für v6 testen: stateless (nur information, keine IP) Anfrage

```
dhclient -6 -S -v -sf /bin/true enp0s3
```

temporäre IPv6 Adresse anfordern:

```
dhclient -6 -T -v -sf /bin/true enp0s3
```

normale IPv6 Adresse anfordern:

```
dhclient -6 -N -v -sf /bin/true enp0s3
```

DORA (Discover, Offer, Request, Ack) in IPv4 wird zu SARR (Solicit, Advertise, Request, Reply) in IPv6

- Lease heißt bei IPv6 Identity Association
- IPv4 renew time heißt jetzt T1 (an den selben DHCP-Server)
- IPv4 rebind time heißt jetzt T2 (an alle DHCP-Server)

Ranges

normale IPv6 Adressen von f00:0 bis fff:fff: range6 2001:db8:0:910::f00:0
2001:db8:0:910::fff:fff;

temporäre (nicht verlängerbare) IPv6 Adressen von 0 bis ffff: range6 2001:db8:0:910::/104
temporary;

1)

IPv6 Subnetz: prefix6 2001:db8:ff00:: 2001:db8:ffff:: /64;

Adresse und Zusatzinfos über DHCPv6

[/etc/radvd.conf](#)

```
interface enp0s3 {
  AdvSendAdvert on;
  prefix 2001:db8:0:15::/64 {
    AdvOnLink on;
    AdvAutonomous off;
    AdvPreferredLifetime 900;
    AdvValidLifetime 1500;
  };
  AdvDefaultLifetime 1500;
  AdvManagedFlag on;
};
```

[/etc/dhcp/dhcpd6.conf](#)

```
subnet6 2001:db8:0:910::/64 {  
    range6 2001:db8:0:910::f00:0000 2001:db8:0:910::fff:0000;  
    range6 2001:db8:0:910::/64 temporary;  
    prefix6 2001:db8:ff00:: 2001:db8:ffff:: /64;  
}
```

Links

Am Ende: <https://ipv6.he.net/certification/>

¹⁾

range /104, damit jeder Client seine alleinige Multicast Solicitation bekommt

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