

# bird 2 auf Debian Buster installieren

## Abhängigkeiten installieren

```
apt install build-essential autotools-dev autoconf flex bison libncurses-dev  
libreadline-dev
```

## bird2 bauen und installieren

```
wget https://bird.network.cz/download/bird-2.0.7.tar.gz  
tar -xf bird-2.0.7.tar.gz  
ls -al  
cd bird-2.0.7/  
./configure  
make -j 2  
sudo make install
```

## bird2 einrichten

```
adduser --system --group --no-create-home bird
```

[/etc/systemd/system/bird.service](#)

```
[Unit]  
Description=BIRD Internet Routing Daemon  
After=network.target  
  
[Service]  
ExecStartPre=/usr/local/sbin/bird -p  
ExecReload=/usr/local/sbin/birdc configure  
ExecStart=/usr/local/sbin/bird -f -u bird -g bird  
Restart=on-abort  
  
[Install]  
WantedBy=multi-user.target
```

```
systemctl enable --now bird
```

## bird2 konfigurieren

</usr/local/etc/bird.conf>

```
router id 192.168.10.26;

ipv6 table ospf6;
ipv6 table bgp6;

protocol direct {
    interface "ens20";
    ipv6 {
        table ospf6;
    };
}

protocol static {
    ipv6 {
        table bgp6;
    };
    route fd56:4902:eca0::/48 via "lo";
    route fd56:4902:eca0::/52 via "lo";
}

protocol kernel {
    ipv6 {
        table ospf6;
        export filter {
            krt_prefsrc=fd56:4902:eca0:6::1;
            accept;
        };
        import none;
    };
    kernel table 1337;
}

protocol kernel {
    ipv6 {
        table bgp6;
        export filter {
            krt_prefsrc=fd56:4902:eca0:6::1;
            accept;
        };
        import none;
    };
    kernel table 2342;
}

protocol ospf v3 {
    ipv6 {
        table ospf6;
        import all;
        export all;
    };
}
```

```
};
area 0 {
    interface "ens19" {
        cost 80;
    };
};
}

protocol bgp gw5 {
    local as 4242422574;
    graceful restart on;
    neighbor fd56:4902:eca0:5::1 as 4242422574;
    source address fd56:4902:eca0:6::1;
    ipv6 {
        table bgp6;
        igp table ospf6;
        next hop self;
        import keep filtered;
        import all;
        export all;
    };
}

protocol bgp peer_nex {
    local as 4242422574;
    graceful restart on;
    neighbor fd9b:37f7:faf7:3001::2 as 4242423012;
    source address fd9b:37f7:faf7:3001::6;
    ipv6 {
        table bgp6;
        igp table ospf6;
        next hop self;
        import keep filtered;
        import filter {
            if net ~ [fd00::/8{8,64}] then accept;
            reject;
        };
        export filter {
            #if net ~ [fd9b:37f7:faf7:3001::/64] then
reject;
            if net ~ [fd00::/8{8,64}] then accept;
            reject;
        };z
    };
}

protocol device {
    scan time 10;
}
```

## forwarding aktivieren

```
net.ipv4.ip_forward=1
net.ipv6.conf.all.forwarding=1
```

## policy based Routing einrichten

```
#!/bin/bash

ip -6 rule flush
ip -6 rule add lookup main prio 32000
ip -6 rule add from all to fd56:4902:eca0::/48 lookup 1337 prio 10000
#ip -6 rule add from fd56:4902:eca0::/48 to all lookup 2342 prio 10000
ip -6 rule add from all to all lookup 2342 prio 10000
ip -6 rule add from all to fd56:4902:eca0::/48 unreachable prio 20000
ip -6 rule add from fd56:4902:eca0::/48 to all unreachable prio 20000
```

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