

Správa sítě

1. Konfigurace trvalé statické IP adresy

1.1. Při použití NetworkManagera

1.1.1. Vytvořte nový profil „static“ se zadanou IP adresou, předponou sítě, výchozí bránou a DNS:

```
# nmcli con add con-name static ifname eth0 type ethernet ipv4.method manual
ipv4.address 192.168.124.80/24 ipv4.gateway 192.168.124.1 ipv4.dns
192.168.124.1
Connection 'static' (626088a2-710b-425f-91ef-209cf78bcc40) successfully
added.
```

1.1.2. Aktivujte nové „static“ připojení:

```
# nmcli con up static
Connection successfully activated (D-Bus active path:
/org/freedesktop/NetworkManager/ActiveConnection/2)
```

1.1.3. Ověřte nové aktivní připojení:

```
# nmcli con show --active
NAME      UUID                                  TYPE      DEVICE
static    626088a2-710b-425f-91ef-209cf78bcc40 ethernet  eth0
```

1.1.4. Ověřte IP adresu:

```
# ip addr show eth0
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UP group default qlen 1000
    link/ether 52:54:00:81:76:b3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.124.80/24 brd 192.168.124.255 scope global noprefixroute
eth0
    valid_lft forever preferred_lft forever
    inet6 fe80::5444:48e4:604b:c5ca/64 scope link noprefixroute
    valid_lft forever preferred_lft forever
```

1.1.5. Ověřte výchozí bránu:

```
# ip route
default via 192.168.124.1 dev eth0 proto static metric 100
192.168.124.0/24 dev eth0 proto kernel scope link src 192.168.124.80 metric
```

100

1.1.6. Ověřte dostupnost DNS adresy:

```
# ping -c 3 192.168.124.1
PING 192.168.124.1 (192.168.124.1) 56(84) bytes of data.
64 bytes from 192.168.124.1: icmp_seq=1 ttl=64 time=0.179 ms
64 bytes from 192.168.124.1: icmp_seq=2 ttl=64 time=0.191 ms
64 bytes from 192.168.124.1: icmp_seq=3 ttl=64 time=0.178 ms

--- 192.168.124.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2000ms
rtt min/avg/max/mdev = 0.178/0.182/0.191/0.016 ms
```

1.2. Při použití network-scripts

1.2.1. Upravte soubor síťového rozhraní a nastavte statickou IP adresu:

```
# vi /etc/sysconfig/network-scripts/ifcfg-eth0
=>
TYPE=Ethernet
PROXY_METHOD=none
BROWSER_ONLY=no
BOOTPROTO=none
IPADDR=192.168.124.80
NETMASK=255.255.255.0
GATEWAY=192.168.124.1
DNS1=192.168.124.1
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
NAME=eth0
UUID=df7d88b6-a563-47bd-9805-a2824631610a
DEVICE=eth0
ONBOOT=yes
```

1.2.2. Znovu aktivujte síťové rozhraní:

```
# ifdown eth0; ifup eth0
```

nebo restartujte síťovou službu:

```
# systemctl restart network
```

1.2.3. Ověřte IP adresu:

```
# ip addr show eth0
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UP group default qlen 1000
    link/ether 52:54:00:81:76:b3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.124.80/24 brd 192.168.124.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::5054:ff:fe81:76b3/64 scope link
        valid_lft forever preferred_lft forever
```

1.2.4. Ověřte výchozí bránu:

```
# ip route
default via 192.168.124.1 dev eth0 proto static metric 100
192.168.124.0/24 dev eth0 proto kernel scope link src 192.168.124.80 metric
100
```

1.2.5. Ověřte dostupnost DNS adresy:

```
# ping -c 3 192.168.124.1
PING 192.168.124.1 (192.168.124.1) 56(84) bytes of data.
64 bytes from 192.168.124.1: icmp_seq=1 ttl=64 time=0.187 ms
64 bytes from 192.168.124.1: icmp_seq=2 ttl=64 time=0.170 ms
64 bytes from 192.168.124.1: icmp_seq=3 ttl=64 time=0.168 ms

--- 192.168.124.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 1999ms
rtt min/avg/max/mdev = 0.168/0.175/0.187/0.008 ms
```

2. Konfigurace trvalé statické cesty

2.1. Při použití NetworkManagera

2.1.1. Přidejte statickou cestu k připojení „static“:

```
# nmcli con mod static +ipv4.routes "192.168.124.0/24 192.168.15.1"
```

2.1.2. Restartujte síťové připojení:

```
# nmcli con down static
Connection 'static' successfully deactivated (D-Bus active path:
/org/freedesktop/NetworkManager/ActiveConnection/2)
# nmcli con up static
Connection successfully activated (D-Bus active path:
/org/freedesktop/NetworkManager/ActiveConnection/3)
```

2.1.3. Ověřte, zda je cesta aktivní:

```
# ip route
default via 192.168.124.1 dev eth0 proto static metric 100
192.168.15.1 dev eth0 proto static scope link metric 100
192.168.124.0/24 dev eth0 proto kernel scope link src 192.168.124.80 metric
100
192.168.124.0/24 via 192.168.15.1 dev eth0 proto static metric 100
```

2.2. Při použití network-scripts

2.2.1. Upravte soubor síťového rozhraní a přidejte statickou cestu:

```
# vi /etc/sysconfig/network-scripts/route-eth0
=>
192.168.124.0/24 via 192.168.15.1 dev eth0
```

2.2.2. Znovu aktivujte síťové rozhraní:

```
# ifdown eth0; ifup eth0
```

nebo restartujte síťovou službu:

```
# systemctl restart network
```

2.2.3. Ověřte, zda je cesta aktivní:

```
# ip route
default via 192.168.124.1 dev eth0 proto static metric 100
192.168.15.1 dev eth0 proto static scope link metric 100
192.168.124.0/24 dev eth0 proto kernel scope link src 192.168.124.80 metric
100
192.168.124.0/24 via 192.168.15.1 dev eth0 proto static metric 100
```

3. Konfigurace síťového rozhraní bond

3.1. Vytvořte rozhraní bond s režimem "active-backup":

```
# nmcli con add type bond con-name bond0 ifname bond0 bond.options
"mode=active-backup"
Connection 'bond0' (004a73e8-a8ed-4720-be7e-b778a979d23c) successfully
added.
```

3.2. Zobrazte síťová rozhraní:

```
# nmcli dev
DEVICE      TYPE        STATE          CONNECTION
ens4f0np0   ethernet    disconnected    --
ens5f0np0   ethernet    disconnected    --
lo          loopback    unmanaged      --
```

3.3. Přiřadte síťová rozhraní do bondu:

```
# nmcli con add type ethernet slave-type bond con-name bond0-port1 ifname
ens4f0np0 master bond0
Connection 'bond0-port1' (93fc8898-fda8-4772-abec-6db347c21c9f) successfully
added.
# nmcli con add type ethernet slave-type bond con-name bond0-port2 ifname
ens5f0np0 master bond0
Connection 'bond0-port2' (0e44212c-5797-49e6-82ba-98b568100bc8) successfully
added.
```

3.4. Nastavte statickou IPv4 adresu, masku sítě, výchozí bránu a DNS server:

```
# nmcli con mod bond0 ipv4.addresses 192.168.15.105/24 ipv4.gateway
192.168.15.1 ipv4.dns 192.168.15.1 ipv4.method manual
```

3.5. Aktivujte připojení:

```
# nmcli con up bond0
Connection successfully activated (master waiting for slaves) (D-Bus active
path: /org/freedesktop/NetworkManager/ActiveConnection/16)
```

3.6. Ověřte, že jsou porty připojeny:

```
# nmcli dev
DEVICE      TYPE        STATE          CONNECTION
bond0       bond         connected      bond0
ens4f0np0   ethernet    connected      bond0-port1
ens5f0np0   ethernet    connected      bond0-port2
lo          loopback    unmanaged      --
```

3.7. Zobrazte připojení:

```
# nmcli con
NAME          UUID                                TYPE      DEVICE
bond0         004a73e8-a8ed-4720-be7e-b778a979d23c  bond      bond0
bond0-port1   93fc8898-fda8-4772-abec-6db347c21c9f  ethernet  ens4f0np0
bond0-port2   0e44212c-5797-49e6-82ba-98b568100bc8  ethernet  ens5f0np0
```

3.8. Povolte automaticky všechny porty při připojení bondu:

```
# nmcli con mod bond0 connection.autoconnect-slaves 1
```

3.9. Zobrazte stav bondu:

```
# cat /proc/net/bonding/bond0
Ethernet Channel Bonding Driver: v3.7.1 (April 27, 2011)

Bonding mode: fault-tolerance (active-backup)
Primary Slave: None
Currently Active Slave: ens4f0np0
MII Staus: up
MII Polling Interval (ms): 100
Up Delay (ms): 0
Down Delay (ms): 0
Peer Notification Delay (ms): 0

Slave Interface: ens4f0np0
MII Staus: up
Speed: 10000 Mbps
Duplex: full
Link Failure Count: 0
Permanent HW addr: 84:16:0c:11:33:f8
Slave queue ID: 0

Slave Interface: ens5f0np0
MII Staus: up
Speed: 10000 Mbps
Duplex: full
Link Failure Count: 0
Permanent HW addr: 84:16:0c:11:33:f9
Slave queue ID: 0
```

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Last update: **2022/07/08 09:32**

