

Networkmanager command line

- <https://fedoraproject.org/wiki/Networking/CLI>
- Reference Manual: <https://people.freedesktop.org/~lkundrak/nm-docs/nm-settings.html>
- Bridging: <https://developer.gnome.org/NetworkManager/stable/nmcli-examples.html>
- und <https://www.hogarthuk.com/?q=node/18>

Alle Verbindungen zeigen bzw. nur aktive:

```
nmcli connection show  
nmcli connection show --active
```

Verbindung aktivieren

```
nmcli connection up id <connection name>
```

Deaktivieren

```
nmcli connection down id <connection name>
```

Löschen

```
nmcli connection delete [xxxx]
```

Alle Configs neu laden

```
nmcli conn reload
```

Neu anlegen

```
nmcli connection edit con-name <name of new connection>
```

Bridge anlegen

Doku:

https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7/html/Networking_Guide/sec-Network_Bridging_Using_the_NetworkManager_Command_Line_Tool_nmcli.html

und <https://fedoramagazine.org/build-network-bridge-fedora/>

```
nmcli connection add ifname br0 type bridge con-name br0
```

Ethernet Schnittstelle hinzufügen

```
nmcli connection add type bridge-slave ifname eth1 master br0
```

Verbindung konfigurieren

mit goto navigieren, mit back zurück. describe beschreibt Optionen.

Z.B. mit describe bridge:

```
===| nmcli interactive connection editor |===
```

```
Adding a new 'bridge' connection
```

```
Type 'help' or '?' for available commands.
```

```
Type 'describe [<setting>.<prop>]' for detailed property description.
```

```
You may edit the following settings: connection, bridge, 802-3-ethernet  
(ethernet), ipv4, ipv6
```

```
nmcli> describe
```

```
Error: no setting selected; valid are [connection, bridge, 802-3-ethernet  
(ethernet), ipv4, ipv6]
```

```
use 'goto <setting>' first, or 'describe <setting>.<property>'
```

```
nmcli> describe bridge
```

```
<<<bridge>>>
```

```
=== [mac-address] ===
```

```
[NM property description]
```

```
If specified, the MAC address of bridge. When creating a new bridge, this  
MAC address will be set. When matching an existing (outside NetworkManager  
created) bridge, this MAC address must match.
```

```
=== [stp] ===
```

```
[NM property description]
```

```
Controls whether Spanning Tree Protocol (STP) is enabled for this bridge.
```

```
=== [priority] ===
```

```
[NM property description]
```

```
Sets the Spanning Tree Protocol (STP) priority for this bridge. Lower  
values are "better"; the lowest priority bridge will be elected the root  
bridge.
```

```
=== [forward-delay] ===
```

```
[NM property description]
```

```
The Spanning Tree Protocol (STP) forwarding delay, in seconds.
```

```
=== [hello-time] ===
```

```
[NM property description]
```

```
The Spanning Tree Protocol (STP) hello time, in seconds.
```

```
=== [max-age] ===
```

```
[NM property description]
```

```
The Spanning Tree Protocol (STP) maximum message age, in seconds.
```

```
=== [ageing-time] ===  
[NM property description]  
The Ethernet MAC address aging time, in seconds.
```

Mit set wird eine property gesetzt

z.B.

```
set bridge.stp true
```

```
set bridge.mac 78:24:af:88:eb:99
```

```
nmcli ipv4> set ipv4.addresses 192.168.72.1  
nmcli ipv4>?  
  
-----  
--  
---[ Main menu ]---  
goto      [<setting> | <prop>]          :: go to a setting or property  
remove    <setting>[.<prop>] | <prop>  :: remove setting or reset property  
value  
set       [<setting>.<prop> <value>]    :: set property value  
describe  [<setting>.<prop>]            :: describe property  
print     [all | <setting>[.<prop>]]    :: print the connection  
verify    [all | fix]                  :: verify the connection  
save      [persistent|temporary]       :: save the connection  
activate  [<ifname>] [/<ap>|<nsp>]      :: activate the connection  
back      :: go one level up (back)  
help/?    [<command>]                  :: print this help  
nmcli     <conf-option> <value>       :: nmcli configuration  
quit      :: exit nmcli  
-----  
--
```

print listet die gesetzten Einstellungen auf.

verify verifiziert die Einstellungen

save persistent sichert die Einstellungen und aktiviert die Verbindung sofort

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