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

```
nmcl 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 eth0 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>?

------------------------------------------------------------------------------
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---[ 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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