

Procedure to create bridge and use on virt-manager

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// OS

```
[root@dvader ~]# cat /etc/redhat-release
```

```
Red Hat Enterprise Linux Server release 7.3 (Maipo)
```

```
[root@dvader ~]#
```

// Connections on my environment

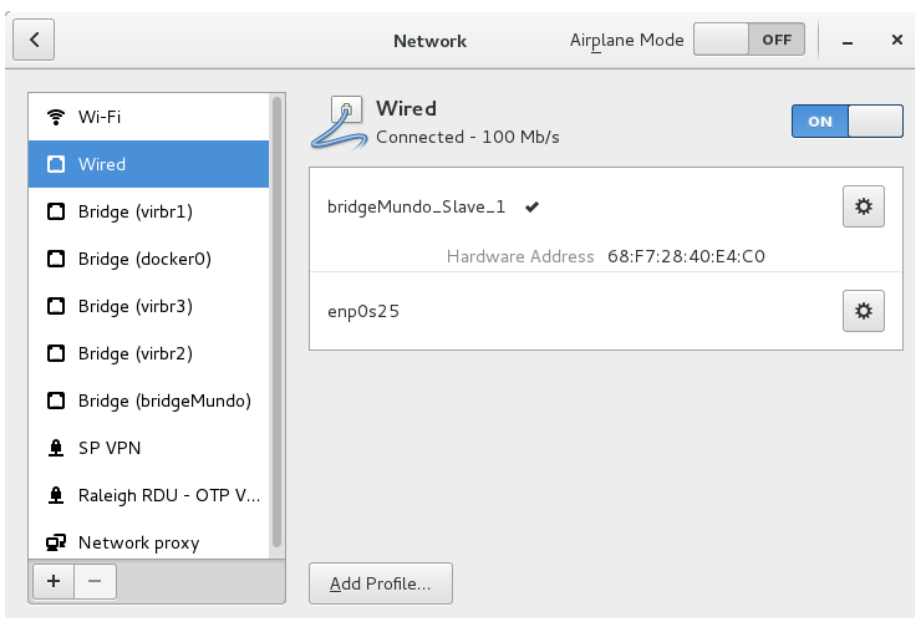
// Bridges in Bold

```
[root@dvader ~]# nmcli c
```

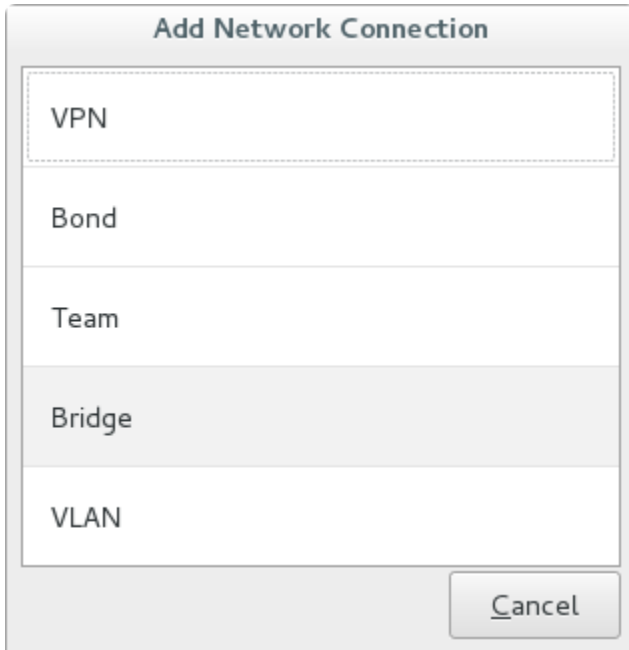
NAME	UUID	TYPE	DEVICE
BridgeWall	d2ab98f2-633c-4689-8dbd-e2dba6c54a1f	bridge	bridgeMundo
Raleigh RDU - OTP	f760bff9-2722-4dbe-bd71-19aa12f180e1	vpn	bridgeMundo
bridgeMundo_Slave_1	3f4ad041-bee5-4d35-bec2-dc7c9ae56158	802-3-ethernet	enp0s25
docker0	1dee6e5d-92dc-428c-ae17-0652b722e374	bridge	docker0
virbr0	ce09f1b3-2b90-4f7f-9fcd-768177e92c81	bridge	virbr0
virbr1	6e47c978-8320-45e2-8579-7d236e01da95	bridge	virbr1
virbr2	13a6a595-b598-4313-a408-aea7e1ca8400	bridge	virbr2
virbr3	d909ad57-cb6f-4c8f-a245-1796970b490f	bridge	virbr3
SP	91decdd5-207f-4f89-b224-b70eb38704f4	vpn	--
Speed_Marlus	9b5d663e-d8a3-4492-be77-076cd5296ad6	802-11-wireless	--
enp0s25	340503b4-e679-f113-2778-985445badaee	802-3-ethernet	--
home_papa	17f94272-cf12-47f0-83d7-94f7822f1758	802-11-wireless	--
home_test	be69ca39-36ee-4ac9-8620-c74c76fa3da6	802-11-wireless	--
warzone	de89a1cb-3796-4956-8af7-9a1db618453e	802-11-wireless	--
warzone1	59f0bf73-4af5-4691-a8af-f1d8fd183	802-11-wireless	--
zoc	4799160d-faf5-40d8-877e-2913c87863b2	802-11-wireless	--

```
[root@dvader ~]#
```

// Via UI, all connections

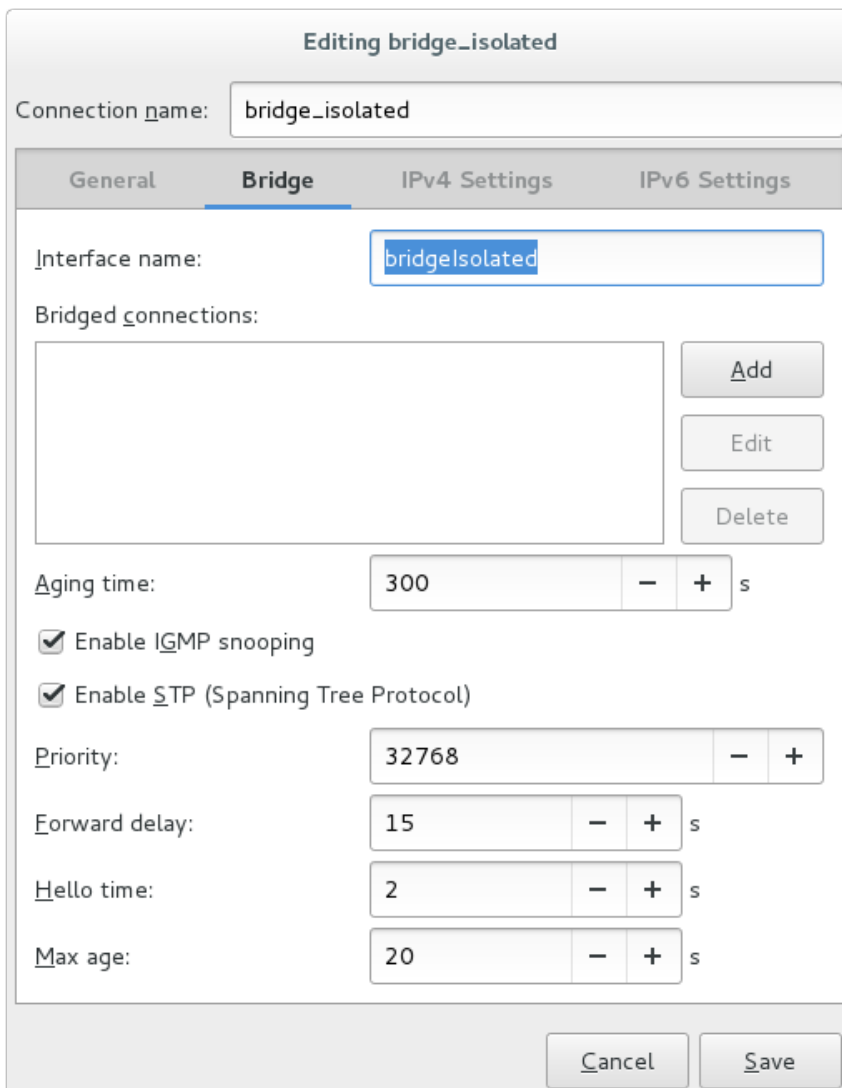


// Creating a new Bridge



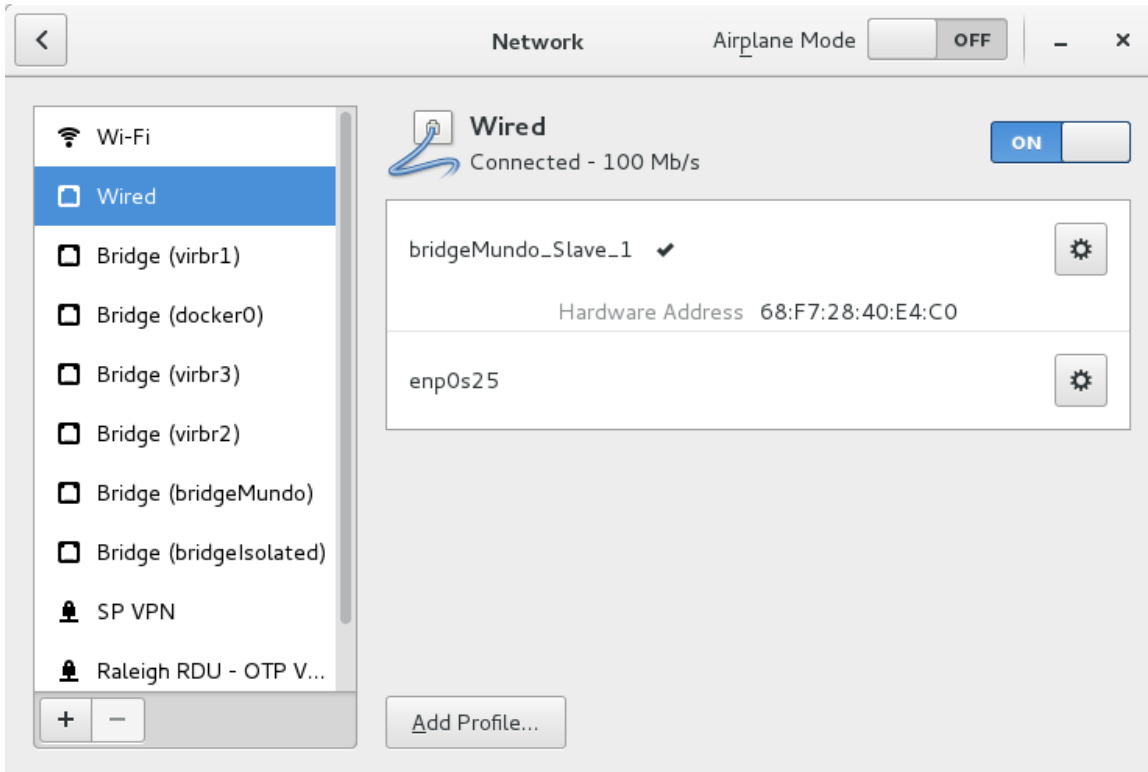
The dialog box titled "Add Network Connection" contains a list of connection types: VPN, Bond, Team, Bridge, and VLAN. The "Bridge" option is highlighted with a grey background. A "Cancel" button is located at the bottom right of the dialog.

// bridgisolated without IP address



The dialog box titled "Editing bridge_isolated" shows the configuration for a bridge connection. The "Connection name" field contains "bridge_isolated". The "Bridge" tab is selected, showing the "Interface name" field with "bridgisolated" entered. Below this is a "Bridged connections" list with "Add", "Edit", and "Delete" buttons. Configuration options include "Aging time" (300 s), "Enable IGMP snooping" (checked), "Enable STP (Spanning Tree Protocol)" (checked), "Priority" (32768), "Forward delay" (15 s), "Hello time" (2 s), and "Max age" (20 s). "Cancel" and "Save" buttons are at the bottom.

// Now we can see via UI both bridges



// Connections *bridgelsolated just created*

```
[root@dvader ~]# nmcli c
```

NAME	UUID	TYPE	DEVICE
BridgeWall	d2ab98f2-633c-4689-8dbd-e2dba6c54a1f	bridge	bridgeMundo
Raleigh RDU - OTP	f760bff9-2722-4dbe-bd71-19aa12f180e1	vpn	bridgeMundo
bridgeMundo_Slave_1	3f4ad041-bee5-4d35-bec2-dc7c9ae56158	802-3-ethernet	enp0s25
bridge_isolated	c0440801-cb7f-476a-8870-40127732af88	bridge	bridgelsolated
docker0	1dee6e5d-92dc-428c-ae17-0652b722e374	bridge	docker0
virbr0	ce09f1b3-2b90-4f7f-9fcd-768177e92c81	bridge	virbr0
virbr1	6e47c978-8320-45e2-8579-7d236e01da95	bridge	virbr1
virbr2	13a6a595-b598-4313-a408-aea7e1ca8400	bridge	virbr2
virbr3	d909ad57-cb6f-4c8f-a245-1796970b490f	bridge	virbr3
SP	91decdd5-207f-4f89-b224-b70eb38704f4	vpn	--
Speed_Marlus	9b5d663e-d8a3-4492-be77-076cd5296ad6	802-11-wireless	--
enp0s25	340503b4-e679-f113-2778-985445badaee	802-3-ethernet	--
home_papa	17f94272-cf12-47f0-83d7-94f7822f1758	802-11-wireless	--
home_test	be69ca39-36ee-4ac9-8620-c74c76fa3da6	802-11-wireless	--
warzone	de89a1cb-3796-4956-8af7-9a1db618453e	802-11-wireless	--
warzone1	59f0bf73-4af5-4691-a8af-f1d8fdfd183	802-11-wireless	--
zoc	4799160d-faf5-40d8-877e-2913c87863b2	802-11-wireless	--

```
[root@dvader ~]#
```

// Restart of NetworkManager and libvirt

```
[root@dvader ~]# systemctl restart NetworkManager
```

```
[root@dvader ~]# systemctl restart libvirt
```

```
// Status of both process
```

```
[root@dvader ~]# systemctl status NetworkManager
```

```
● NetworkManager.service - Network Manager
```

```
Loaded: loaded (/usr/lib/systemd/system/NetworkManager.service; enabled; vendor preset: enabled)
```

```
Active: active (running) since Fri 2017-03-31 15:24:16 BRT; 26s ago
```

```
Docs: man:NetworkManager(8)
```

```
Main PID: 26601 (NetworkManager)
```

```
CGroup: /system.slice/NetworkManager.service
```

```
└─26601 /usr/sbin/NetworkManager --no-daemon
```

```
└─26903 /sbin/dhclient -d -q -sf /usr/libexec/nm-dhcp-helper -pf /var/run/dhclient-bridgeMundo.pid
```

```
-lf /var/lib/NetworkManager/dhclient-610ddac6-6735-433d-a769-8756da468e08-...
```

```
Mar 31 15:24:18 dvader.example.net dhclient[26903]: DHCPACK from 192.168.0.1 (xid=0x5c2ee66a)
```

```
Mar 31 15:24:18 dvader.example.net NetworkManager[26601]: <info> [1490984658.8238] dhcp4
```

```
(bridgeMundo): address 192.168.0.10
```

```
Mar 31 15:24:18 dvader.example.net NetworkManager[26601]: <info> [1490984658.8239] dhcp4
```

```
(bridgeMundo): plen 24 (255.255.255.0)
```

```
Mar 31 15:24:18 dvader.example.net NetworkManager[26601]: <info> [1490984658.8239] dhcp4
```

```
(bridgeMundo): gateway 192.168.0.1
```

```
Mar 31 15:24:18 dvader.example.net NetworkManager[26601]: <info> [1490984658.8239] dhcp4
```

```
(bridgeMundo): server identifier 192.168.0.1
```

```
Mar 31 15:24:18 dvader.example.net NetworkManager[26601]: <info> [1490984658.8239] dhcp4
```

```
(bridgeMundo): lease time 86400
```

```
Mar 31 15:24:18 dvader.example.net NetworkManager[26601]: <info> [1490984658.8239] dhcp4
```

```
(bridgeMundo): nameserver '192.168.0.1'
```

```
Mar 31 15:24:18 dvader.example.net NetworkManager[26601]: <info> [1490984658.8239] dhcp4
```

```
(bridgeMundo): domain name 'Home'
```

```
Mar 31 15:24:18 dvader.example.net NetworkManager[26601]: <info> [1490984658.8239] dhcp4
```

```
(bridgeMundo): state changed unknown -> bound
```

```
Mar 31 15:24:18 dvader.example.net dhclient[26903]: bound to 192.168.0.10 -- renewal in 41240 seconds.
```

```
[root@dvader ~]#
```

```
[root@dvader ~]# systemctl status libvirtd
```

```
● libvirtd.service - Virtualization daemon
```

```
Loaded: loaded (/usr/lib/systemd/system/libvirtd.service; enabled; vendor preset: enabled)
```

```
Active: active (running) since Fri 2017-03-31 15:24:22 BRT; 24s ago
```

```
Docs: man:libvirtd(8)
```

```
http://libvirt.org
```

```
Main PID: 27086 (libvirtd)
```

```
CGroup: /system.slice/libvirtd.service
```

```
└─2297 /sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/local_net_56.conf --leasefile-ro
```

```
--dhcp-script=/usr/libexec/libvirt_leaseshelper
```

```
└─2632 /sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/local_net_60.conf --leasefile-ro
```

```
--dhcp-script=/usr/libexec/libvirt_leaseshelper
```

```
└─2633 /sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/local_net_60.conf --leasefile-ro
```

```
--dhcp-script=/usr/libexec/libvirt_leaseshelper
```

```
└─2839 /sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/local_net_57.conf --leasefile-ro
```

```
--dhcp-script=/usr/libexec/libvirt_leaseshelper
```

```

├─ 3209 /sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/default.conf --leasefile-ro
--dhcp-script=/usr/libexec/libvirt_leaseshelper
├─ 3210 /sbin/dnsmasq --conf-file=/var/lib/libvirt/dnsmasq/default.conf --leasefile-ro
--dhcp-script=/usr/libexec/libvirt_leaseshelper
└─ 27086 /usr/sbin/libvirtd

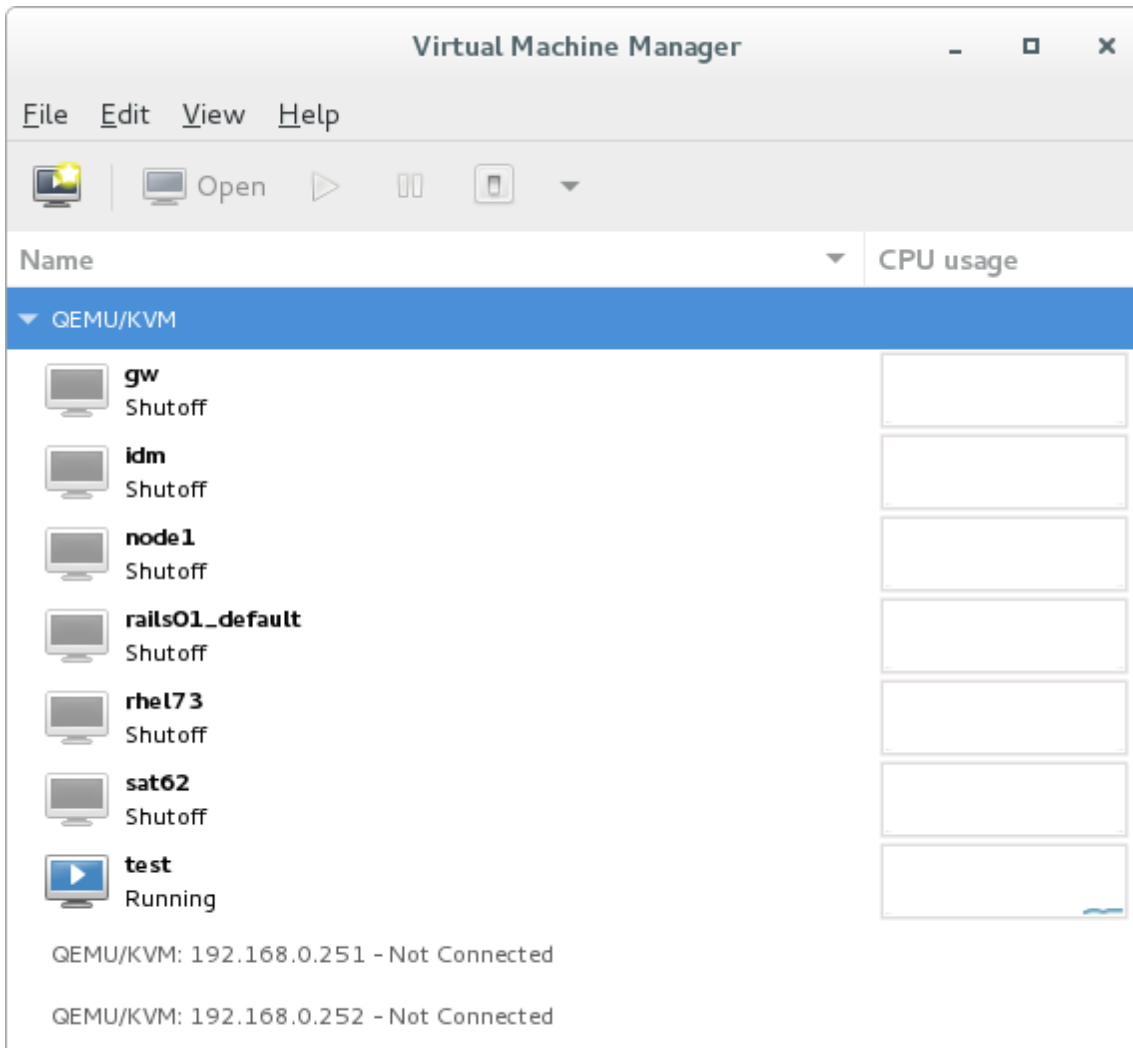
```

```

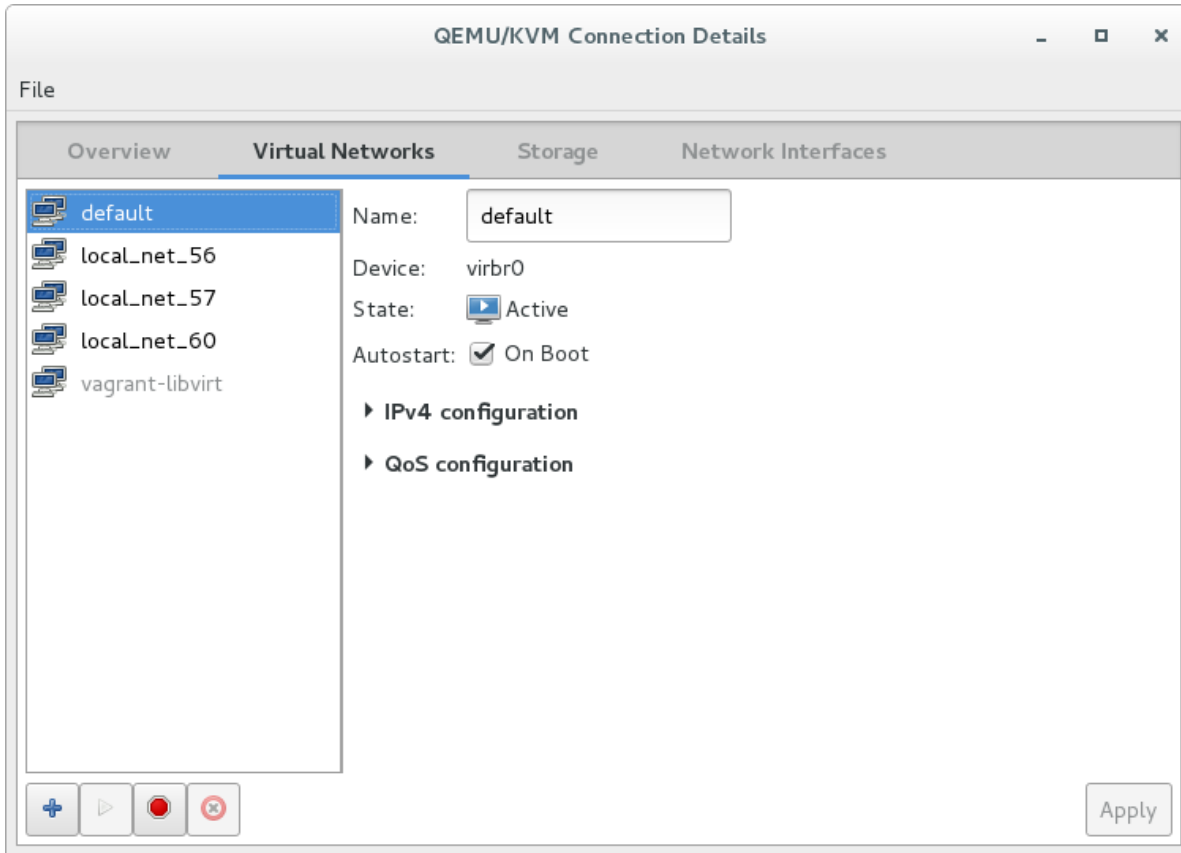
Mar 31 15:24:22 dvader.example.net dnsmasq[2632]: read /etc/hosts - 6 addresses
Mar 31 15:24:22 dvader.example.net dnsmasq[3209]: read /etc/hosts - 6 addresses
Mar 31 15:24:22 dvader.example.net dnsmasq[2632]: read /var/lib/libvirt/dnsmasq/local_net_60.addnhosts
- 0 addresses
Mar 31 15:24:22 dvader.example.net dnsmasq-dhcp[2632]: read
/var/lib/libvirt/dnsmasq/local_net_60.hostsfile
Mar 31 15:24:22 dvader.example.net dnsmasq[3209]: read /var/lib/libvirt/dnsmasq/default.addnhosts - 0
addresses
Mar 31 15:24:22 dvader.example.net dnsmasq-dhcp[3209]: read /var/lib/libvirt/dnsmasq/default.hostsfile
Mar 31 15:24:22 dvader.example.net dnsmasq[2839]: read /etc/hosts - 6 addresses
Mar 31 15:24:22 dvader.example.net dnsmasq[2839]: read /var/lib/libvirt/dnsmasq/local_net_57.addnhosts
- 0 addresses
Mar 31 15:24:22 dvader.example.net dnsmasq[2297]: read /etc/hosts - 6 addresses
Mar 31 15:24:22 dvader.example.net dnsmasq[2297]: read /var/lib/libvirt/dnsmasq/local_net_56.addnhosts
- 0 addresses
[root@dvader ~]#

```

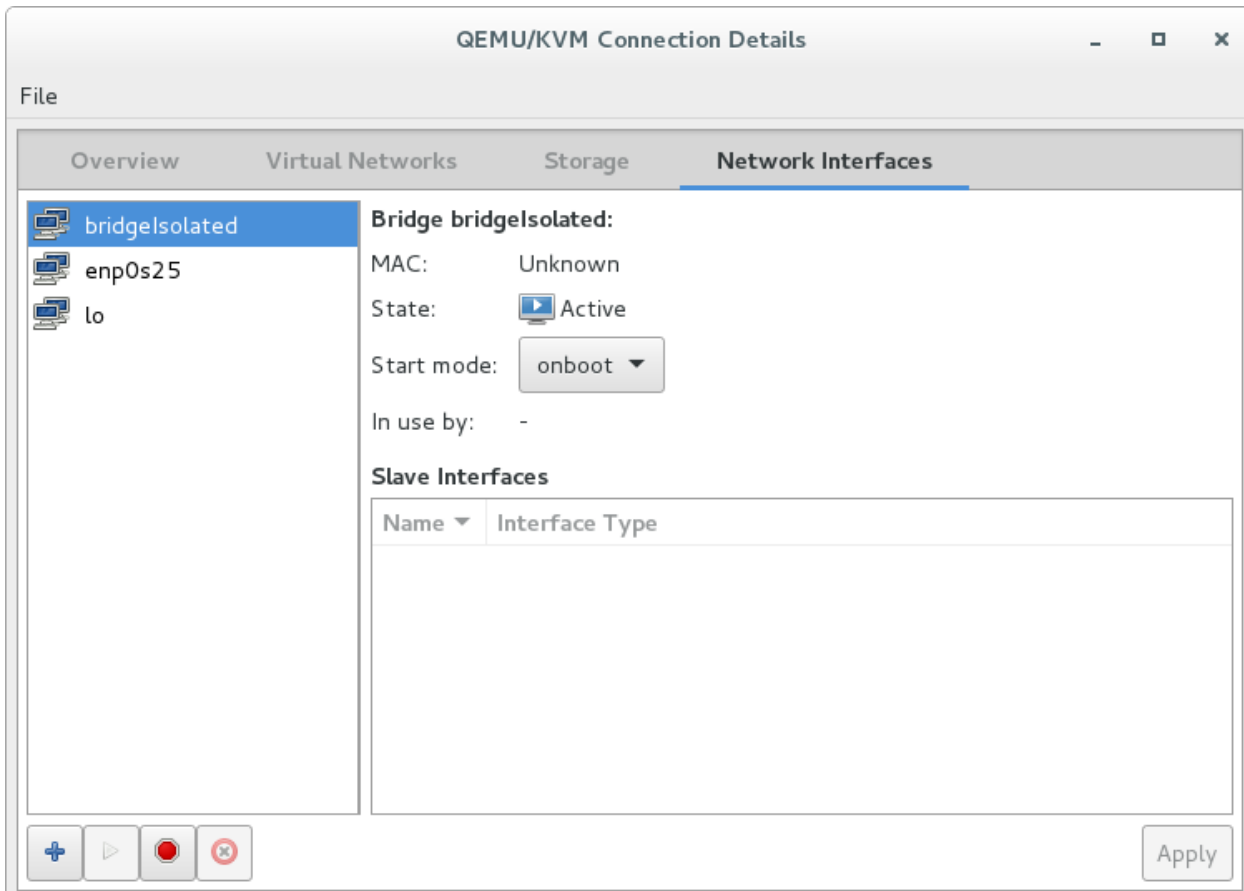
// My virt-manager



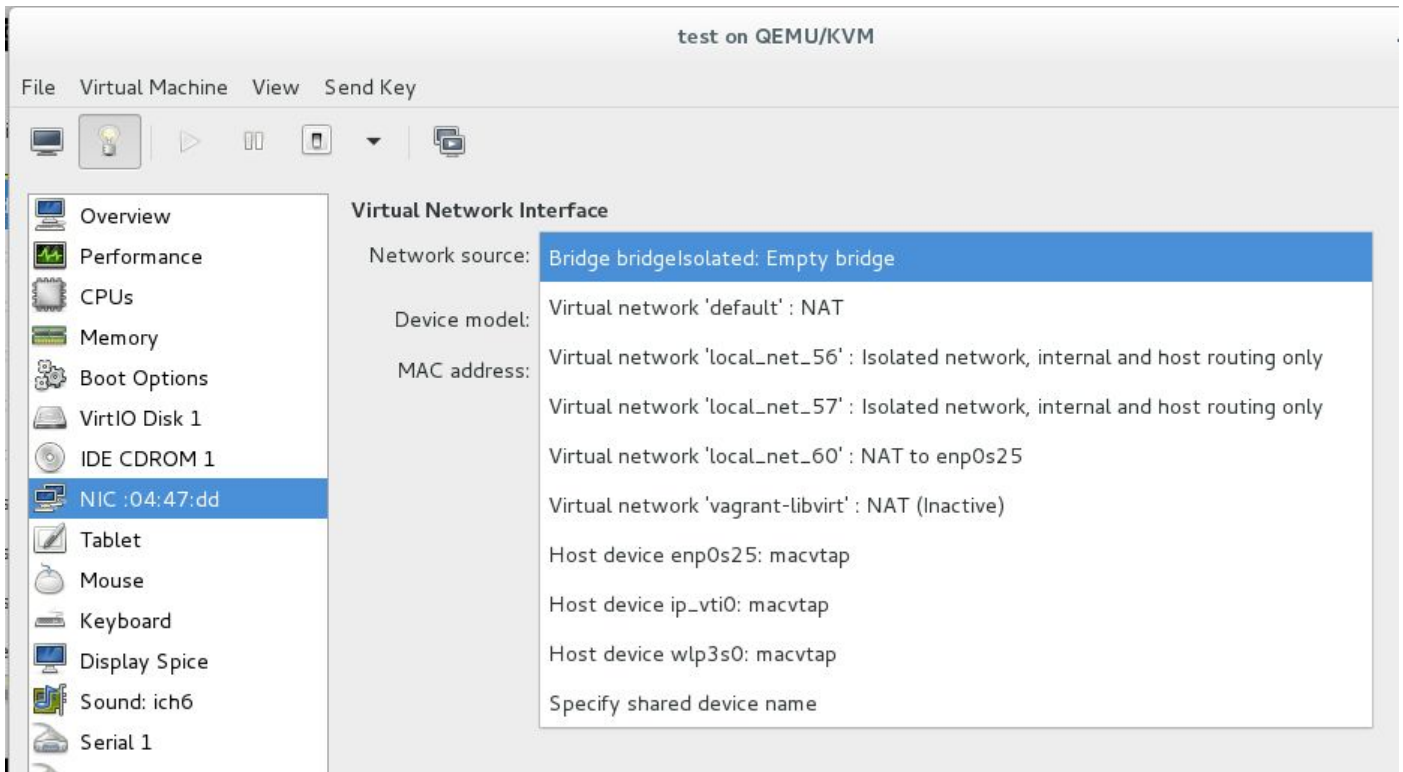
// Virtual Networks



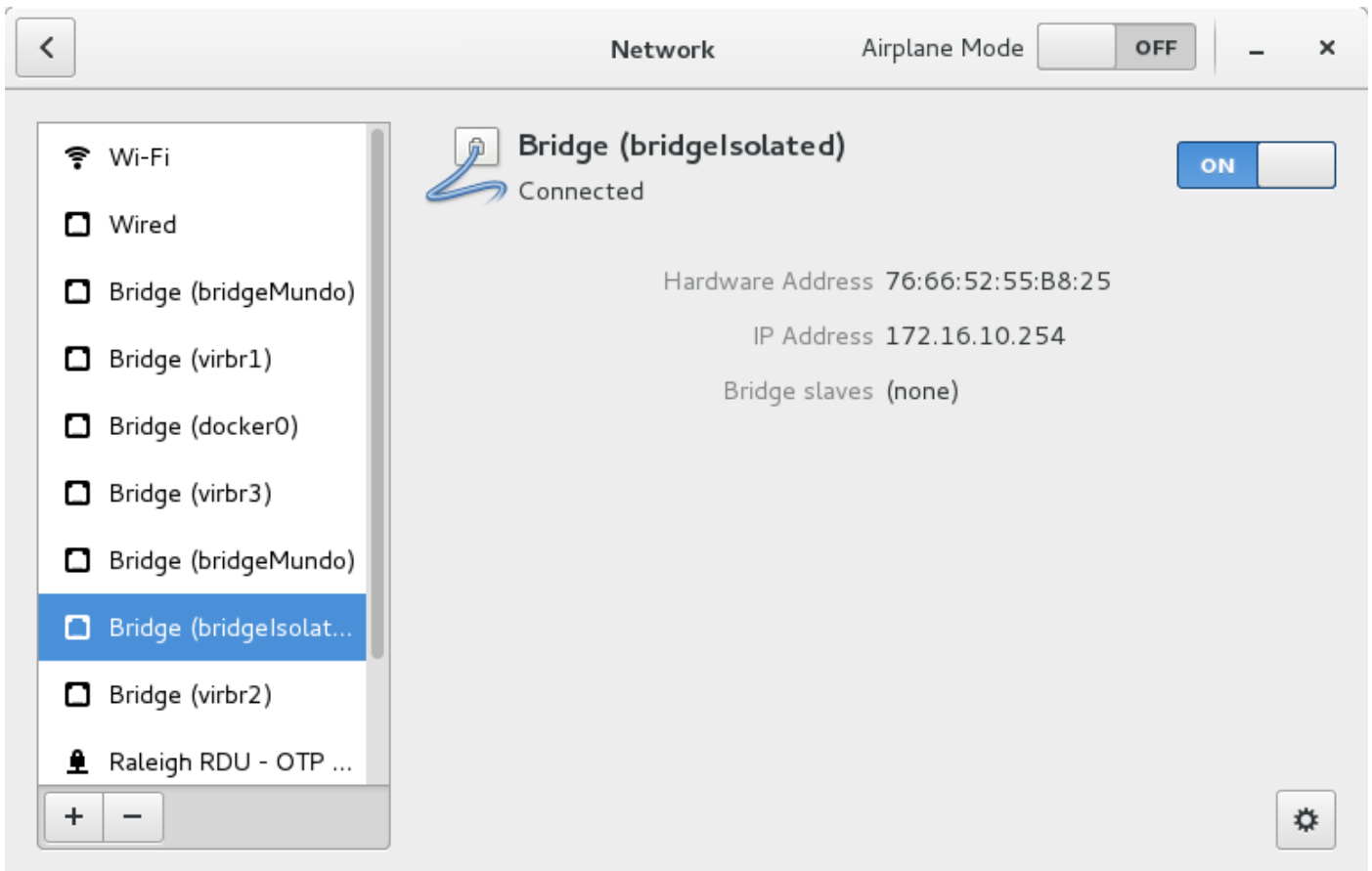
// Network Interfaces. Here I believe I should see all bridges.



// When I select to change the NIC source on VM, I can see only bridgedisolated and not **BridgeMundo** for example.



// I'll add one IP address to this interface.



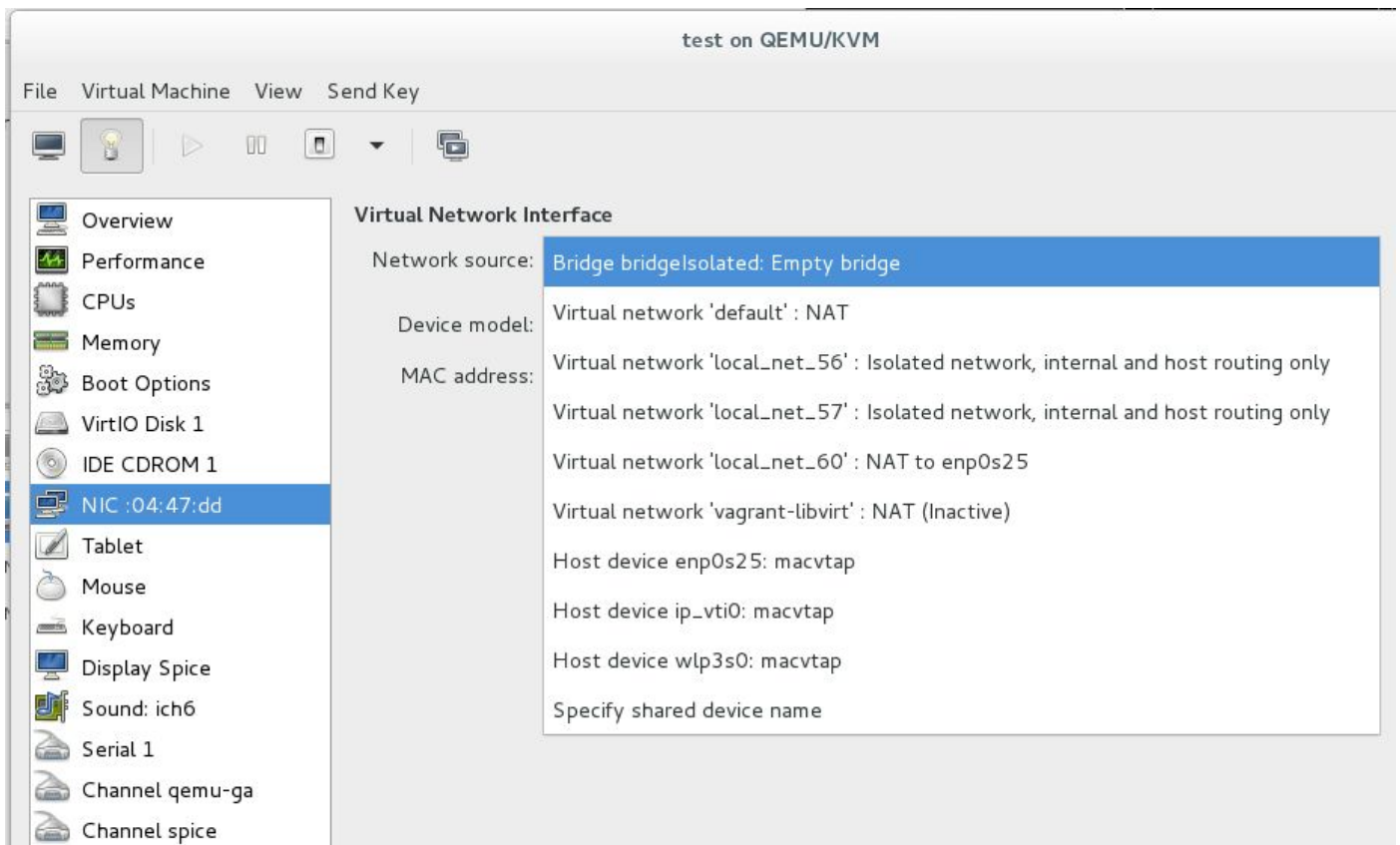
// nmcli output

[root@dvader ~]# nmcli c

NAME	UUID	TYPE	DEVICE
bridgeMundo	610ddac6-6735-433d-a769-8756da468e08	bridge	bridgeMundo
bridgeMundo_Slave_1	3f4ad041-bee5-4d35-bec2-dc7c9ae56158	802-3-ethernet	enp0s25
bridge_isolated	c0440801-cb7f-476a-8870-40127732af88	bridge	bridgelsolated
docker0	32772b71-c875-4d39-8bc3-1bc05d2a58e0	bridge	docker0
virbr0	ae2b5232-1e72-4bda-a3e9-bad36234b3e1	bridge	virbr0
virbr1	7f15ef0c-3a3c-44c9-96be-a769a90d123c	bridge	virbr1
virbr2	283993fa-fab0-440f-b659-56e6c5e8545f	bridge	virbr2
virbr3	b9ead426-1d59-492e-ae47-9ad4e3d085c5	bridge	virbr3
BridgeWall	d2ab98f2-633c-4689-8dbd-e2dba6c54a1f	bridge	--
Raleigh RDU - OTP	f760bff9-2722-4dbe-bd71-19aa12f180e1	vpn	--
SP	91decdd5-207f-4f89-b224-b70eb38704f4	vpn	--
Speed_Marlus	9b5d663e-d8a3-4492-be77-076cd5296ad6	802-11-wireless	--
enp0s25	340503b4-e679-f113-2778-985445badaee	802-3-ethernet	--
home_papa	17f94272-cf12-47f0-83d7-94f7822f1758	802-11-wireless	--
home_test	be69ca39-36ee-4ac9-8620-c74c76fa3da6	802-11-wireless	--
warzone	de89a1cb-3796-4956-8af7-9a1db618453e	802-11-wireless	--
warzone1	59f0bf73-4af5-4691-a8af-f1d8fdfd183	802-11-wireless	--
zoc	4799160d-faf5-40d8-877e-2913c87863b2	802-11-wireless	--

[root@dvader ~]

// Still the same, only bridgelsolated.



// Network Confs

[root@dvader ~]# ip ll

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
2: enp0s25: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast master
bridgeMundo state UP mode DEFAULT qlen 1000
    link/ether 68:f7:28:40:e4:c0 brd ff:ff:ff:ff:ff:ff
3: wlp3s0: <BROADCAST,MULTICAST> mtu 1500 qdisc mq state DOWN mode DEFAULT qlen 1000
    link/ether 12:84:1a:fd:83:74 brd ff:ff:ff:ff:ff:ff
4: bridgeMundo: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP
mode DEFAULT qlen 1000
    link/ether 68:f7:28:40:e4:c0 brd ff:ff:ff:ff:ff:ff
5: virbr1: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN mode
DEFAULT qlen 1000
    link/ether 52:54:00:69:3d:87 brd ff:ff:ff:ff:ff:ff
6: virbr1-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr1 state DOWN mode
DEFAULT qlen 1000
    link/ether 52:54:00:69:3d:87 brd ff:ff:ff:ff:ff:ff
7: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN mode
DEFAULT
    link/ether 02:42:cc:a5:85:1e brd ff:ff:ff:ff:ff:ff
8: virbr3: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN mode
DEFAULT qlen 1000
    link/ether 52:54:00:56:da:d3 brd ff:ff:ff:ff:ff:ff
9: virbr3-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr3 state DOWN mode
DEFAULT qlen 1000
    link/ether 52:54:00:56:da:d3 brd ff:ff:ff:ff:ff:ff
10: virbr2: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN mode
DEFAULT qlen 1000
    link/ether 52:54:00:d3:8d:d1 brd ff:ff:ff:ff:ff:ff
11: virbr2-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr2 state DOWN mode
DEFAULT qlen 1000
    link/ether 52:54:00:d3:8d:d1 brd ff:ff:ff:ff:ff:ff
12: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN mode
DEFAULT qlen 1000
    link/ether 52:54:00:6b:7b:02 brd ff:ff:ff:ff:ff:ff
13: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr0 state DOWN mode
DEFAULT qlen 1000
    link/ether 52:54:00:6b:7b:02 brd ff:ff:ff:ff:ff:ff
17: ip_vti0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN mode DEFAULT qlen 1
    link/ipip 0.0.0.0 brd 0.0.0.0
20: vnet0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UNKNOWN
mode DEFAULT qlen 1000
    link/ether fe:54:00:04:47:dd brd ff:ff:ff:ff:ff:ff
25: bridgeisolated: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN
mode DEFAULT qlen 1000
    link/ether 76:66:52:55:b8:25 brd ff:ff:ff:ff:ff:ff
```

[root@dvader ~]#

[root@dvader ~]# ip a l

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
```

```
inet 127.0.0.1/8 scope host lo
valid_lft forever preferred_lft forever
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: enp0s25: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast master bridgeMundo
state UP qlen 1000
    link/ether 68:f7:28:40:e4:c0 brd ff:ff:ff:ff:ff:ff
3: wlp3s0: <BROADCAST,MULTICAST> mtu 1500 qdisc mq state DOWN qlen 1000
    link/ether 12:84:1a:fd:83:74 brd ff:ff:ff:ff:ff:ff
4: bridgeMundo: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP qlen
1000
    link/ether 68:f7:28:40:e4:c0 brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.10/24 brd 192.168.0.255 scope global dynamic bridgeMundo
    valid_lft 84692sec preferred_lft 84692sec
    inet 10.10.49.203/32 brd 10.10.49.203 scope global bridgeMundo
    valid_lft forever preferred_lft forever
    inet 10.10.49.60/32 brd 10.10.49.60 scope global bridgeMundo
    valid_lft forever preferred_lft forever
    inet6 fe80::1ae6:8c52:ccd1:eb6a/64 scope link
    valid_lft forever preferred_lft forever
5: virbr1: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN qlen 1000
    link/ether 52:54:00:69:3d:87 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.1/24 brd 192.168.56.255 scope global virbr1
    valid_lft forever preferred_lft forever
6: virbr1-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr1 state DOWN qlen 1000
    link/ether 52:54:00:69:3d:87 brd ff:ff:ff:ff:ff:ff
7: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN
    link/ether 02:42:cc:a5:85:1e brd ff:ff:ff:ff:ff:ff
    inet 172.17.42.1/16 scope global docker0
    valid_lft forever preferred_lft forever
8: virbr3: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN qlen 1000
    link/ether 52:54:00:56:da:d3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.60.1/24 brd 192.168.60.255 scope global virbr3
    valid_lft forever preferred_lft forever
9: virbr3-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr3 state DOWN qlen 1000
    link/ether 52:54:00:56:da:d3 brd ff:ff:ff:ff:ff:ff
10: virbr2: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN qlen
1000
    link/ether 52:54:00:d3:8d:d1 brd ff:ff:ff:ff:ff:ff
    inet 192.168.57.1/24 brd 192.168.57.255 scope global virbr2
    valid_lft forever preferred_lft forever
11: virbr2-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr2 state DOWN qlen
1000
    link/ether 52:54:00:d3:8d:d1 brd ff:ff:ff:ff:ff:ff
12: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN qlen
1000
    link/ether 52:54:00:6b:7b:02 brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0
    valid_lft forever preferred_lft forever
13: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr0 state DOWN qlen
1000
```

```

link/ether 52:54:00:6b:7b:02 brd ff:ff:ff:ff:ff:ff
17: ip_vti0@NONE: <NOARP> mtu 1480 qdisc noop state DOWN qlen 1
    link/ipip 0.0.0.0 brd 0.0.0.0
20: vnet0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UNKNOWN qlen
1000
    link/ether fe:54:00:04:47:dd brd ff:ff:ff:ff:ff:ff
    inet6 fe80::fc54:ff:fe04:47dd/64 scope link
    valid_lft forever preferred_lft forever
25: bridgelsolated: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN
qlen 1000
    link/ether 76:66:52:55:b8:25 brd ff:ff:ff:ff:ff:ff
    inet 172.16.10.254/16 brd 172.16.255.255 scope global bridgelsolated
    valid_lft forever preferred_lft forever

```

```
[root@dvader ~]#
```

```
// Show bridges
```

```
[root@dvader ~]# brctl show
```

bridge name	bridge id	STP	enabled	interfaces
bridgelsolated	8000.000000000000		yes	
bridgeMundo	8000.68f72840e4c0		yes	enp0s25
docker0	8000.0242cca5851e		no	
virbr0	8000.5254006b7b02		yes	virbr0-nic
virbr1	8000.525400693d87		yes	virbr1-nic
virbr2	8000.525400d38dd1		yes	virbr2-nic
virbr3	8000.52540056dad3		yes	virbr3-nic

```
[root@dvader ~]#
```

```
// Creating the new bridge via CLI
```

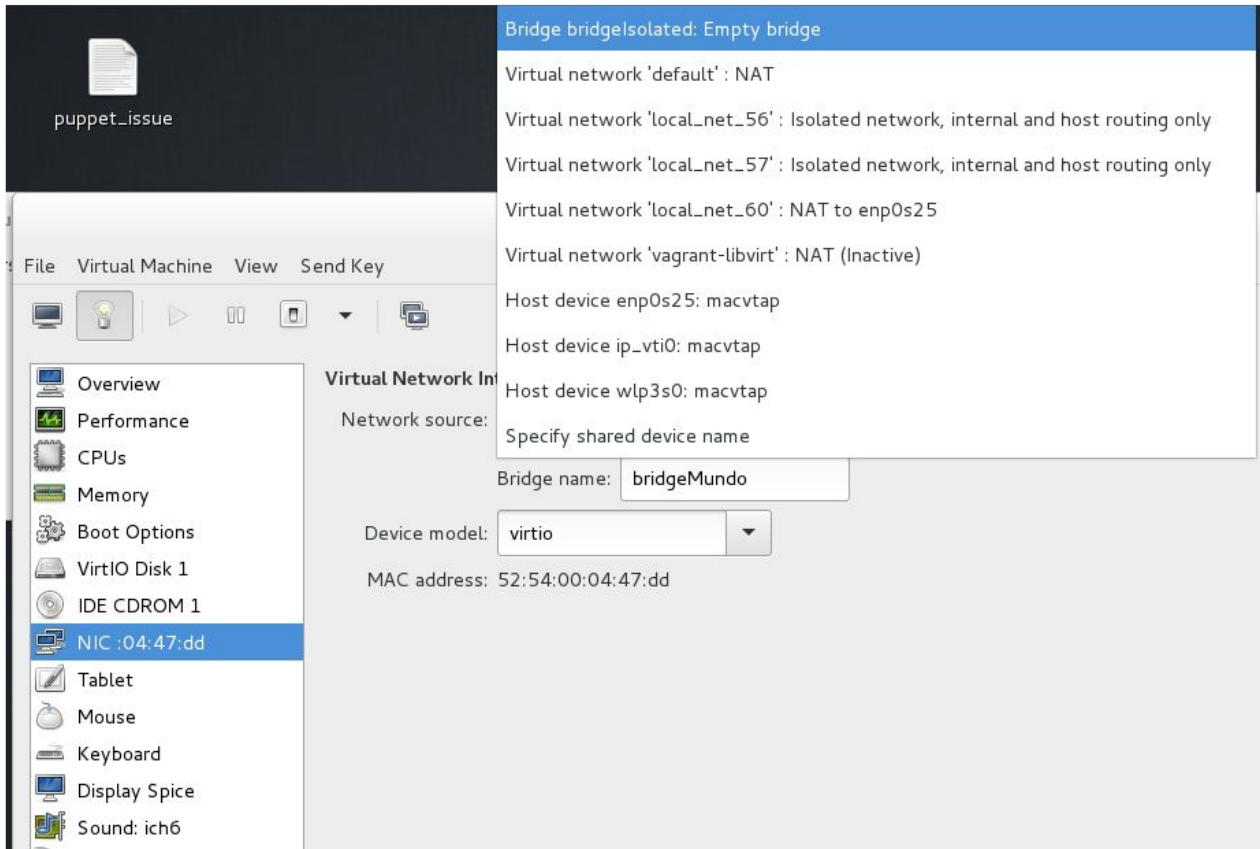
```
[root@dvader ~]# brctl addbr newbridgeCLI
```

```
[root@dvader ~]# brctl show
```

bridge name	bridge id	STP	enabled	interfaces
bridgelsolated	8000.000000000000		yes	
bridgeMundo	8000.68f72840e4c0		yes	enp0s25
docker0	8000.0242cca5851e		no	
newbridgeCLI	8000.000000000000		no	
virbr0	8000.5254006b7b02		yes	virbr0-nic
virbr1	8000.525400693d87		yes	virbr1-nic
virbr2	8000.525400d38dd1		yes	virbr2-nic
virbr3	8000.52540056dad3		yes	virbr3-nic

```
[root@dvader ~]#
```

// Still without **bridgeMundo** on the list



So the BIG question is, why bridgeMundo is not visible via virt-manager UI ?

PS: On Fedora 25 it's possible to see the complete bridge list on VM's and on virt-manager.