



“Si te gustó -Bond, James- (007), querrás mas a -Team, Lamberto- (008)”

[root@station1 ~]# nmcli c s

NOMBRE	UUID	TIPO	DISPOSITIVO
enp0s3	a315dc76-a615-4f21-b27f-69ad3dde132	802-3-ethernet	enp0s3
Conexión cableada 1	029a7c2d-5aec-36e8-be75-9fd9e4942f8d	802-3-ethernet	--
Conexión cableada 2	5c329502-a4c8-3b79-a7a4-b6fdbd7fadab8	802-3-ethernet	--

[root@station1 ~]# mandb

...

[↳ Buscamos los 'runner's'](#)

[root@station1 ~]# man -k team

bond2team (1)	- Converts bonding configuration to team
teamd (8)	- team network device control daemon
teamd.conf (5)	- libteam daemon configuration file
teamdctl (8)	- team daemon control tool
teamnl (8)	- team network device Netlink interface tool

[root@station1 ~]# man teamd.conf |grep runner

...

"runner": {"name": "activebackup"}

...

[↳ Creamos nuestro 'team0'](#)

[root@station1 ~]# nmcli connection add type team con-name team0 ifname team0 config '{"runner": {"name": "activebackup"}}'

Conexión 'team0' (9164a232-4bf2-403c-9fb2-87404fca20e6) agregada con éxito.

[↳ Creamos los puertos de conexión 'team0-port1' y 'team0-port2'](#)

[root@station1 ~]# nmcli connection add type team-slave con-name team0-puerto1 ifname enp0s8 master team0

Conexión 'team0-puerto1' (ff4919ad-8a2f-465e-8408-4ab88220b2ae) agregada con éxito.

[root@station1 ~]# nmcli connection add type team-slave con-name team0-puerto2 ifname enp0s9 master team0

Conexión 'team0-puerto2' (b1a8e14e-b276-46c2-a93d-eb7734f33325) agregada con éxito.

[↳ Comprobamos su 'state':](#)

[root@station1 ~]# nmcli c s

NOMBRE	UUID	TIPO	DISPOSITIVO
enp0s3	a315dc76-a615-4f21-b27f-69ad3dde132	802-3-ethernet	enp0s3
team0	9164a232-4bf2-403c-9fb2-87404fca20e6	team	team0
team0-puerto1	ff4919ad-8a2f-465e-8408-4ab88220b2ae	802-3-ethernet	enp0s8
team0-puerto2	b1a8e14e-b276-46c2-a93d-eb7734f33325	802-3-ethernet	enp0s9



Conexión cableada 1 029a7c2d-5aec-36e8-be75-9fd9e4942f8d 802-3-ethernet --
Conexión cableada 2 5c329502-a4c8-3b79-a7a4-b6fdbd7fadab8 802-3-ethernet --

[root@station1 ~]# teamdctl team0 state

setup:

runner: activebackup

ports:

enp0s8

link watches:

link summary: up

instance[link_watch_0]:

name: ethtool

link: up

down count: 0

enp0s9

link watches:

link summary: up

instance[link_watch_0]:

name: ethtool

link: up

down count: 0

runner:

active port: enp0s8

[↳ Down de 'team0' y deshabilitar 'NetworkManager' para que funcione el 'bridge':](#)

[root@station1 ~]# nmcli connection down team0

La conexión 'team0' fue desactivada correctamente (ruta activa D-Bus:

/org/freedesktop/NetworkManager/ActiveConnection/56)

[root@station1 ~]# systemctl disable NetworkManager

Removed symlink /etc/systemd/system/multi-user.target.wants/NetworkManager.service.

Removed symlink /etc/systemd/system/dbus-org.freedesktop.NetworkManager.service.

Removed symlink /etc/systemd/system/dbus-org.freedesktop.nm-dispatcher.service.

[root@station1 ~]# ^disable^stop

systemctl stop NetworkManager

[↳ Añadimos al final de la configuración del 'team0', el 'brteam0' que crearemos a continuación:](#)

[root@station1 ~]# cd /etc/sysconfig/network-scripts/

[root@station1 network-scripts]# vim ifcfg-team0

DEVICE=team0

TEAM_CONFIG="{"runner": {"name": "activebackup"} }"

PROXY_METHOD=none

BROWSER_ONLY=no

BOOTPROTO=dhcp

DEFROUTE=yes



```
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
IPV6_ADDR_GEN_MODE=stable-privacy
NAME=team0
UUID=9164a232-4bf2-403c-9fb2-87404fca20e6
ONBOOT=yes
DEVICETYPE=Team
BRIDGE=brteam0
```

[**↳ Creamos el bridge → 'brteam0' de forma manual, y con una configuración mínima:**](#)

```
[root@station1 network-scripts]# vim /etc/sysconfig/network-scripts/ifcfg-brteam0
ONBOOT=yes
DEVICE=brteam0
Type=Bridge
IPADDR=192.168.100.160
PREFIX=24
```

[**↳ Por último reiniciamos y comprobamos todo:**](#)

```
[root@station1 network-scripts]# systemctl restart network
... Se tomará un tiempo, ...
Job for network.service failed because the control process exited with error code. See
"systemctl status network.service" and "journalctl -xe" for details.
```

```
[root@station1 network-scripts]# systemctl status network
● network.service - LSB: Bring up/down networking
  Loaded: loaded (/etc/rc.d/init.d/network; bad; vendor preset: disabled)
  Active: failed (Result: exit-code) since sáb 2018-04-21 11:47:56 CEST; 2min 0s ago
    Docs: man:systemd-sysv-generator(8)
 Process: 16381 ExecStop=/etc/rc.d/init.d/network stop (code=exited, status=0/SUCCESS)
 Process: 16588 ExecStart=/etc/rc.d/init.d/network start (code=exited, status=1/FAILURE)
```

```
abr 21 11:47:46 station1.example.com dhclient[17004]: DHCPDISCOVER on team0 to
255.255.255.255 port 67 interval 9 (xid=0x3724ece9)
abr 21 11:47:55 station1.example.com dhclient[17004]: No DHCPOFFERS received.
abr 21 11:47:55 station1.example.com network[16588]: Determinando la información IP para
team0... falló.
abr 21 11:47:55 station1.example.com network[16588]: [FALLÓ]
abr 21 11:47:56 station1.example.com network[16588]: Activando interfaz team0-puerto1: [ OK ]
abr 21 11:47:56 station1.example.com network[16588]: Activando interfaz team0-puerto2: [ OK ]
abr 21 11:47:56 station1.example.com systemd[1]: network.service: control process exited,
code=exited status=1
abr 21 11:47:56 station1.example.com systemd[1]: Failed to start LSB: Bring up/down
networking.
```



abr 21 11:47:56 station1.example.com systemd[1]: Unit network.service entered failed state.
abr 21 11:47:56 station1.example.com systemd[1]: network.service failed.

[root@station1 network-scripts]# cat /var/log/messages

...
Apr 21 11:47:56 station1 systemd: network.service failed.
Apr 21 12:00:02 station1 systemd: Starting LSB: Bring up/down networking...
Apr 21 12:00:02 station1 network: Activación de la interfaz de loopback: [OK]
Apr 21 12:00:02 station1 network: Activando interfaz brteam0: ERROR :
[/etc/sysconfig/network-scripts/ifup-eth] El dispositivo brteam0 no parece estar presente,
retrasando la iniciación.
Apr 21 12:00:02 station1 /etc/sysconfig/network-scripts/ifup-eth: El dispositivo brteam0 no parece
estar presente, retrasando la iniciación.
Apr 21 12:00:02 station1 network: [FALLÓ]
...
ERROR → No esta disponible el soporte para puentes.

[↳ Troubleshoot.](#)

[root@station1 network-scripts]# lsmod |grep bridge

bridge	136173	1	ebtable_broute
stp	12976	1	bridge
llc	14552	2	stp,bridge

[root@station1 network-scripts]# yum provides */brctl | grep bridge

...
bridge-utils-1.5-9.el7.x86_64 : Utilities for configuring the linux ethernet

...
[root@station1 network-scripts]# yum install bridge-utils -y
[root@station1 network-scripts]# systemctl restart network
bridge name bridge id STP enabled interfaces
brteam0 8000.080027396f92 no team0
[root@station1 network-scripts]# brctl stp brteam0 on

Mejor Activamos → Spanning Tree Protocol (STP):

[root@station1 network-scripts]# brctl show

bridge name	bridge id	STP enabled	interfaces
brteam0	8000.080027396f92	yes	team0

[root@station1 network-scripts]# ifup brteam0

[root@station1 network-scripts]# ip a

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: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP



```
qlen 1000
link/ether 08:00:27:04:14:89 brd ff:ff:ff:ff:ff:ff
inet 192.168.100.151/24 brd 192.168.100.255 scope global enp0s3
    valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fe04:1489/64 scope link
    valid_lft forever preferred_lft forever
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast master
team0 state UP qlen 1000
link/ether 08:00:27:39:6f:92 brd ff:ff:ff:ff:ff:ff
inet6 fe80::a00:27ff:fe39:6f92/64 scope link
    valid_lft forever preferred_lft forever
4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast master
team0 state UP qlen 1000
link/ether 08:00:27:39:6f:92 brd ff:ff:ff:ff:ff:ff
inet6 fe80::a00:27ff:fe39:6f92/64 scope link
    valid_lft forever preferred_lft forever
5: team0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master
brteam0 state UP qlen 1000
link/ether 08:00:27:39:6f:92 brd ff:ff:ff:ff:ff:ff
inet6 fe80::a00:27ff:fe39:6f92/64 scope link
    valid_lft forever preferred_lft forever
6: brteam0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP qlen 1000
link/ether 08:00:27:39:6f:92 brd ff:ff:ff:ff:ff:ff
inet 192.168.100.160/24 brd 192.168.100.255 scope global brteam0
    valid_lft forever preferred_lft forever
inet6 fe80::a00:27ff:fe39:6f92/64 scope link
    valid_lft forever preferred_lft forever
```

[root@station1 network-scripts]# ping -c2 192.168.100.160

```
PING 192.168.100.160 (192.168.100.160) 56(84) bytes of data.
64 bytes from 192.168.100.160: icmp_seq=1 ttl=64 time=0.039 ms
64 bytes from 192.168.100.160: icmp_seq=2 ttl=64 time=0.097 ms
```

--- 192.168.100.160 ping statistics ---

2 packets transmitted, 2 received, 0% packet loss, time 999ms
rtt min/avg/max/mdev = 0.039/0.068/0.097/0.029 ms



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