

Come cambiare i nomi delle schede di rete

## Come cambiare i nomi delle schede di rete

Può capitare di avere la necessità di fare in modo che una scheda di rete si chiami in un certo modo, oppure di rinominare le interfacce di rete dopo aver "mirrorato" un server.

Per effettuare questa operazione è sufficiente agire su i files di configurazione di **UDEV**.

Ad esempio si può presentare la seguente situazione:

```
root@torello01:~# ifconfig -a
bond0      Link encap:Ethernet  HWaddr 00:1B:78:40:AE:CA
            inet addr:192.168.30.186  Bcast:192.168.30.191  Mask:255.255.255.224
            UP BROADCAST RUNNING MASTER MULTICAST  MTU:1500  Metric:1
            RX packets:37717 errors:0 dropped:0 overruns:0 frame:0
            TX packets:44943 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:0
            RX bytes:8577245 (8.1 Mb)  TX bytes:11363384 (10.8 Mb)

eth7       Link encap:Ethernet  HWaddr 00:1B:78:5C:9F:0A
            BROADCAST MULTICAST  MTU:1500  Metric:1
            RX packets:0 errors:0 dropped:0 overruns:0 frame:0
            TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
            Base address:0x8000 Memory:fdfe0000-fe000000

eth8       Link encap:Ethernet  HWaddr 00:1B:78:5C:AD:CB
            BROADCAST MULTICAST  MTU:1500  Metric:1
            RX packets:0 errors:0 dropped:0 overruns:0 frame:0
            TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
            Base address:0x5020 Memory:fdca0000-fdcc0000

eth9       Link encap:Ethernet  HWaddr 00:1B:78:40:AE:CA
            UP BROADCAST RUNNING SLAVE MULTICAST  MTU:1500  Metric:1
            RX packets:37714 errors:0 dropped:0 overruns:0 frame:0
            TX packets:34333 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:8577053 (8.1 Mb)  TX bytes:10486423 (10.0 Mb)
            Interrupt:98 Memory:fa000000-fa012100

eth10      Link encap:Ethernet  HWaddr 00:1B:78:5C:9F:0B
            BROADCAST MULTICAST  MTU:1500  Metric:1
            RX packets:0 errors:0 dropped:0 overruns:0 frame:0
            TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
            collisions:0 txqueuelen:1000
            RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
            Base address:0x8020 Memory:fdfa0000-fdfc0000
```

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```
eth11    Link encap:Ethernet  HWaddr 00:1B:78:40:AE:CC
UP BROADCAST RUNNING SLAVE MULTICAST  MTU:1500  Metric:1
RX packets:3 errors:0 dropped:0 overruns:0 frame:0
TX packets:10610 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:192 (192.0 b)  TX bytes:876961 (856.4 Kb)
Interrupt:130 Memory:f8000000-f8012100

eth12    Link encap:Ethernet  HWaddr 00:1B:78:5C:AD:CA
BROADCAST MULTICAST  MTU:1500  Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
Base address:0x5000 Memory:fdce0000-fdd00000

lo       Link encap:Local Loopback
inet addr:127.0.0.1  Mask:255.0.0.0
UP LOOPBACK RUNNING  MTU:16436  Metric:1
RX packets:110150 errors:0 dropped:0 overruns:0 frame:0
TX packets:110150 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:34228093 (32.6 Mb)  TX bytes:34228093 (32.6 Mb)
```

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In questo caso la configurazione delle schede è dettata dal file di configurazione per UDEV:  
"/etc/udev/rules.d/30-net\_\_persistent\_\_names.rules".

```
root@torello01:~# cat /etc/udev/rules.d/30-net_persistent_names.rules
[... ]
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:ae:2d", IMPORT="/lib/udev/rename_netiface %k eth3"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1c:c4:97:9f:9c", IMPORT="/lib/udev/rename_netiface %k eth1"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:92:45", IMPORT="/lib/udev/rename_netiface %k eth5"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:92:44", IMPORT="/lib/udev/rename_netiface %k eth4"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1c:c4:97:9f:9a", IMPORT="/lib/udev/rename_netiface %k eth0"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:ae:2c", IMPORT="/lib/udev/rename_netiface %k eth2"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:ad:cb", IMPORT="/lib/udev/rename_netiface %k eth8"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:9f:0a", IMPORT="/lib/udev/rename_netiface %k eth7"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:40:ae:ca", IMPORT="/lib/udev/rename_netiface %k eth9"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:9f:0b", IMPORT="/lib/udev/rename_netiface %k eth10"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:40:ae:cc", IMPORT="/lib/udev/rename_netiface %k eth11"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:ad:ca", IMPORT="/lib/udev/rename_netiface %k eth12"
```

La non corretta assegnazione dei nomi alle schede di rete è dettata dal fatto che si tratta di un server mirrorato da un'altra macchina.

Per sanare la situazione è possibile seguire due differenti procedure, la prima porta ad una riconfigurazione automatica dei nomi delle schede, la seconda permette di imporre i nomi secondo le proprie scelte.

Per effettuare una riconfigurazione automatica dei nomi delle NIC basta cancellare il contenuto del file: "/etc/udev/rules.d/30-net\_\_persistent\_\_names.rules" e riavviare il sistema; al reboot del sistema il file sarà automaticamente popolato con tutte le NIC con assegnato automaticamente un nome progressivo a partire da "eth0".

Per effettuare una assegnazione manuale dei nomi alle NIC, è possibile cambiare il file: "/etc/udev/rules.d/30-net\_\_persistent\_\_names.rules" inserendo i nomi corretti riferendosi ai MAC address delle schede ed effettuare un reboot.

```
root@torello01:~# cat /etc/udev/rules.d/30-net_persistent_names.rules
[... ]
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:40:ae:ca", IMPORT="/lib/udev/rename_netiface %k eth0"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:40:ae:cc", IMPORT="/lib/udev/rename_netiface %k eth1"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:9f:0a", IMPORT="/lib/udev/rename_netiface %k eth2"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:9f:0b", IMPORT="/lib/udev/rename_netiface %k eth3"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:ad:ca", IMPORT="/lib/udev/rename_netiface %k eth4"
SUBSYSTEM=="net", ACTION=="add", SYSFS{address}=="00:1b:78:5c:ad:cb", IMPORT="/lib/udev/rename_netiface %k eth5"
```

Riferimenti:

<http://www.kernel.org/pub/linux/utils/kernel/hotplug/udev.html>

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