

Correcting the detection problem in IPBrick 5.2 concerning Broadcom's NICs

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1 Solution procedure:

This procedure addresses the problem, found in IPBrick 5.2, with the auto-detection of Broadcom NICs.

In order to confirm that the NICs really are from Broadcom, please execute: `lspci`

Output example:

```
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev 90)
00:1f.0 ISA bridge: Intel Corporation Unknown device 3a18
00:1f.2 IDE interface: Intel Corporation Unknown device 3a20
01:03.0 VGA compatible controller: ATI Technologies Inc ES1000 (rev 02)
01:04.0 System peripheral: Compaq Computer Corporation Integrated Lights Out Contr
01:04.2 System peripheral: Compaq Computer Corporation Integrated Lights Out Proc
01:04.4 USB Controller: Hewlett-Packard Company Unknown device 3300
01:04.6 Serial bus controller [0c07]: Hewlett-Packard Company Unknown device 3302
02:00.0 Ethernet controller: Broadcom Corporation Unknown device 1639 (rev 20)
02:00.1 Ethernet controller: Broadcom Corporation Unknown device 1639 (rev 20)
03:00.0 Ethernet controller: Broadcom Corporation Unknown device 1639 (rev 20)
03:00.1 Ethernet controller: Broadcom Corporation Unknown device 1639 (rev 20)
04:00.0 RAID bus controller: Hewlett-Packard Company Unknown device 323a (rev 01)
```

1. If the NIC is a broadcom;
 - (a) Download the file from http://downloads.ipbrick.com/IPBrick/download/v5.1/update/bnx2-network_1.0_all.deb
 - (b) Copy the downloaded file to the root of a USB pendrive
2. Insert the pendrive in the server
 - (a) In the command line interface of the server, to detect the device, please type the command: `dmesg`

Output example:

```
[520776.092025] usb 5-8: new high speed USB device using ehci_hcd and address 5-8.1
[520776.225501] usb 5-8: configuration #1 chosen from 1 choice
[520776.424316] usbcore: registered new interface driver libusual
[520776.460082] Initializing USB Mass Storage driver...
[520776.461415] scsi4 : SCSI emulation for USB Mass Storage devices
[520776.462932] usbcore: registered new interface driver usb-storage
[520776.464424] USB Mass Storage support registered.
[520776.465798] usb-storage: device found at 2
[520776.465807] usb-storage: waiting for device to settle before scanning
[520781.464227] usb-storage: device scan complete
[520781.464714] scsi 4:0:0:0: Direct-Access    USB2.0   Flash Disk
[520781.475436] sd 4:0:0:0: [sdb] 995328 512-byte hardware sectors (510 M
[520781.476399] sd 4:0:0:0: [sdb] Write Protect is off
[520781.476407] sd 4:0:0:0: [sdb] Mode Sense: 0b 00 00 08
[520781.476411] sd 4:0:0:0: [sdb] Assuming drive cache: write through
[520781.478304] sd 4:0:0:0: [sdb] 995328 512-byte hardware sectors (510 M
[520781.491566] sd 4:0:0:0: [sdb] Write Protect is off
[520781.491576] sd 4:0:0:0: [sdb] Mode Sense: 0b 00 00 08
[520781.491580] sd 4:0:0:0: [sdb] Assuming drive cache: write through
[520781.493050]  sdb: sdb1
[520781.494671] sd 4:0:0:0: [sdb] Attached SCSI removable disk
[520781.495121] sd 4:0:0:0: Attached scsi generic sg2 type 0
```

- (b) Mount the pendrive
`mount /dev/sdb1 /mnt`

3. Install the file `bnx2-network_1.0_all.deb`

```
cd /mnt  
dpkg -i bnx2-network_1.0_all.deb
```

4. Restart the server

```
reboot
```