

NethServer 6 - Enhancement #3299

Default bonding mode to active-backup

10/29/2015 09:46 AM - Filippo Carletti

Status: CLOSED	Start date:
Priority: Normal	Due date:
Assignee:	% Done: 100%
Category: nethserver-base	
Target version: v6.7	
Resolution:	NEEDINFO: No
Description I think that the default mode for bonded ethernet should be 1 (active-backup), because it works well without the need of "special" switches and/or wrong cabling. The linux kernel default is 0 (round-robin). An expert sysadmin can follow documentation to change mode. Some documentation: https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/6/html/Deployment_Guide/s2-networkscripts-interfaces-han.html https://www.kernel.org/doc/Documentation/networking/bonding.txt	
Related issues: Related to NethServer 6 - Enhancement # 3373: Bond miimon default value CLOSED	

Associated revisions

Revision fba5a692 - 03/31/2016 05:53 AM - Davide Principi

Accumulate BondOpt props and emit BONDING_OPTS. Refs #3299

Revision 873b7501 - 03/31/2016 05:55 AM - Davide Principi

NetworkAdapter UI: added BondMode selector. Refs #3299

Revision 895ca62d - 04/06/2016 04:42 AM - Davide Principi

Accumulate BondOpt props and emit BONDING_OPTS. Refs #3299

Revision b3f8b0ae - 04/06/2016 04:42 AM - Davide Principi

NetworkAdapter UI: added BondMode selector. Refs #3299

History

#1 - 10/29/2015 09:48 AM - Filippo Carletti

- Category set to nethserver-base
- Status changed from NEW to TRIAGED
- % Done changed from 0 to 20

Here's a command to set mode:

```
db networks setprop bond0 bonding_opts "'miimon=100 mode=1'"
```

Pay attention to the quotes (single, then double).

#2 - 10/29/2015 09:51 AM - Filippo Carletti

After a signal-event interface-update the ifcfg-bond0 config file should contain:

```
BONDING_OPTS="miimon=100 mode 1"
```

#3 - 03/31/2016 05:32 AM - Davide Principi

- Status changed from *TRIAGED* to *ON_DEV*
- Assignee set to *Davide Principi*
- Target version changed from *~FUTURE* to *v6.7*
- % Done changed from *20* to *30*

#4 - 03/31/2016 06:06 AM - Davide Principi

- Status changed from *ON_DEV* to *MODIFIED*
- Assignee deleted (*Davide Principi*)
- % Done changed from *30* to *60*

MODIFIED

- The "New Logical Interface" UI allows selecting the bond mode
- The bond mode proposed by UI is "active-backup"
- The underlying implementation creates BONDING_OPTS value by reading any prop named after "BondOpt" prefix

Test case 1

After upgrading to the modified package signal interface-update event. Existing bond configuration must not change. To check the bond configuration (for instance):

```
cat /proc/net/bonding/bond* | grep Mode
```

Test case 2

- Create a new bond interface
- Check the applied mode reflects the UI choice

#5 - 03/31/2016 06:13 AM - Davide Principi

- Status changed from *MODIFIED* to *ON_QA*
- % Done changed from *60* to *70*

In nethserver-testing:

TODO (on verified):

- update inline help
- update admin's manual

#6 - 03/31/2016 08:55 AM - Giacomo Sanchiotti

- Assignee set to Giacomo Sanchiotti

#7 - 03/31/2016 09:00 AM - Giacomo Sanchiotti

- Status changed from ON_QA to VERIFIED

- Assignee deleted (Giacomo Sanchiotti)

- % Done changed from 70 to 90

Created 2 bond interfaces:

- bond0 set as active-backup
- bond1 set as round-robin

```
[root@ns1 ~]# grep Mode /proc/net/bonding/bond1
```

```
Bonding Mode: load balancing (round-robin)
```

```
[root@ns1 ~]# grep Mode /proc/net/bonding/bond0
```

```
Bonding Mode: fault-tolerance (active-backup)
```

```
[root@ns1 ~]# cat /etc/sysconfig/network-scripts/ifcfg-bond1
```

```
DEVICE=bond1
```

```
BOOTPROTO=none
```

```
GATEWAY=192.168.1.253
```

```
IPADDR=192.168.1.246
```

```
NETMASK=255.255.255.0
```

```
NM_CONTROLLED=no
```

```
ONBOOT=yes
```

```
TYPE=Bond
```

```
USERCTL=no
```

```
[root@ns1 ~]# cat /etc/sysconfig/network-scripts/ifcfg-bond0
```

```
DEVICE=bond0
```

```
BOOTPROTO=none
```

```
GATEWAY=192.168.2.253
```

```
IPADDR=192.168.2.246
```

```
NETMASK=255.255.255.0
```

```
NM_CONTROLLED=no
```

```
ONBOOT=yes
```

```
TYPE=Bond
```

```
USERCTL=no
```

```
BONDING_OPTS="mode=1"
```

It works as expected.

Note

If you need to change the mode of an existing bond:

db networks setprop bond0 BondOptMode 2
signal-event interface-update
reboot

#8 - 03/31/2016 10:22 AM - Davide Principi

- Status changed from VERIFIED to CLOSED
- % Done changed from 90 to 100

In nethserver-updates:

http://packages.nethesis.it/nethserver/6.7/updates/x86_64/Packages/nethserver-base-2.10.0-1.ns6.noarch.rpm

#9 - 04/04/2016 03:46 AM - Davide Principi

- Related to Enhancement #3373: Bond miimon default value added