

NethServer 6 - Feature #3041

Restore from backup, disaster recovery and network interfaces

02/13/2015 11:55 AM - Davide Principi

Status: CLOSED	Start date:
Priority: Normal	Due date:
Assignee:	% Done: 100%
Category: nethserver-base	
Target version: v6.6-rc1	
Resolution:	NEEDINFO: No
Description	
Primary scenario a configuration backup is restored on a new hardware	
Secondary scenario disks are moved to a new hardware	
The admin must fix the network configuration coming from the backup set, by replacing the old MAC addresses.	
The following list of actions assigns the MAC addresses from the new network adapters to the old interfaces names, then applies the new configuration:	
<ol style="list-style-type: none">1) restore config from backup2) db networks setprop ethX hwaddr A:B:C:D...3) rm /etc/udev/rules.d/70-persistent-net.rules4) action interface-config-reset5) action interface-config-write6) reboot	
The last step could be replaced by	
<ol style="list-style-type: none">6.1) service network stop6.2) udevadm trigger --subsystem-match=net6.3) service network start	
An hypothetical Server Manager page could guide the admin to assign the new MAC addresses on the old interface names. Then applies the new configuration by running an event.	
As the green interface is already configured, the helper page can take this information into account to ease the green MAC assignment.	
See also https://access.redhat.com/discussions/1240213	

Associated revisions

Revision 8f82c035 - 02/24/2015 10:45 AM - Davide Principi

interface-update: reset udev rules. Refs #3041

The new action clears `/etc/udev/rules.d/70-persistent-net.rules` and triggers the udev net event to regenerate it.

Revision 91bac0a8 - 02/24/2015 10:46 AM - Davide Principi

nic-info helper: loop on every card if invoked w/o arguments. Refs #3041

Revision 0c85578c - 02/24/2015 11:06 AM - Davide Principi

nic-info: fixed link status check. Refs #3041

The check requires sudo.

Revision 065125b1 - 02/25/2015 12:06 PM - Davide Principi

Fixed Tracker notifications. Refs #3041

Revision 6be15f79 - 02/26/2015 05:51 AM - Davide Principi

Bump Nethgui 065125b1c9b31228efb137ff246a395be8f9b6af. Refs #3041

Revision 5a4bec10 - 02/26/2015 06:43 AM - Davide Principi

NetworkAdapter: new RenameInterface UI module. Refs #3041

This new module helps assigning physical ethernet cards to interfaces in networks DB.

Supposed scenarios:

- restore backup on new hardware
- NIC replacement
- moving disks to a new hardware

Revision 40653e52 - 02/26/2015 06:43 AM - Davide Principi

New nethserver-config-network command. Refs #3041

- ``udev-update-network`` helper replaces ``update-networks-db``: the new script catches udev events for a single device, preventing duplicate actions. Note that udev events are asynchronous and can run concurrently. Binding to udev is in ``root/etc/udev/rules.d/95-NetworksDB.rules``
- action ``nethserver-base-initialize-db`` now implements ``initialize_networks_db()`` function to replace ``update-networks-db``. The new functions relies on ``nic-info``.

- the new nethserver-config-network can be invoked interactively or automatically on boot in rc.local template. It acts only on green interfaces and exits immediately if all interfaces are correctly mapped.

Revision eb49f46d - 02/26/2015 06:43 AM - Davide Principi

Added I10n for AdminTodos. Refs #3041

Revision c1dd7f0a - 02/26/2015 06:45 AM - Davide Principi

Merge branch 'b3041' into v6.6. Refs #3041

Restore from backup, disaster recovery and network interfaces

Revision 872b07e5 - 02/26/2015 09:35 AM - Davide Principi

Removed restore "on same hardware" option. Refs #3041

The NetworkAdapter UI module implements interface renaming now.

Revision 1b43681b - 02/26/2015 09:35 AM - Davide Principi

Restore UI module: show AdminTodo notifications after restore. Refs #3041

Revision 8e27d8de - 02/27/2015 04:17 AM - Giacomo Sanchietti

nethserver-config-network: fix logic. Refs #3041

Revision 69419934 - 02/27/2015 04:41 AM - Giacomo Sanchietti

Web interface: fix list of old interfaces. Refs #3041

Revision d8713250 - 02/27/2015 04:45 AM - Davide Principi

Bump Nethgui 065125b1c9b31228efb137ff246a395be8f9b6af. Refs #3041

Revision cf3742b5 - 02/27/2015 10:34 AM - Davide Principi

Disaster recovery section. Refs #3041

Revision 6254cf84 - 02/27/2015 10:45 AM - Davide Principi

NetworkAdapter: fixed translations for RenameInterface. Refs #3041

- removed button "Assign interfaces" from index view
- enhanced display of link status and list layout

Revision 13113bc3 - 03/03/2015 11:23 AM - Davide Principi

Merge pull request #60 from DavidePrincipi/b3041

Disaster recovery section. Refs #3041

History

#1 - 02/13/2015 11:56 AM - Davide Principi

- *Category set to nethserver-base*
- *Status changed from NEW to TRIAGED*
- *Target version set to v6.6-rc1*
- *% Done changed from 0 to 20*

#2 - 02/13/2015 11:56 AM - Davide Principi

- *Status changed from TRIAGED to ON_DEV*
- *Assignee set to Davide Principi*
- *% Done changed from 20 to 30*

#3 - 02/26/2015 09:50 AM - Davide Principi

- *Subject changed from Assign new network adapter to old interface name to Restore from backup, disaster recovery and network interfaces*
- *Status changed from ON_DEV to MODIFIED*
- *Assignee deleted (Davide Principi)*
- *% Done changed from 30 to 60*

was: "Assign new network adapter to old interface name"

Test case 1/a

Single network interface system:

- shutdown a configured system
- replace the network card or move system disk to an other machine
- power on the new system

The old green configuration must be moved on the new card automatically. The system must be reachable from the green network.

Test case 1/b

Multiple network interfaces system

- all interfaces must have a role
- shutdown a configured system
- replace the green network card
- power on the new system

The old green configuration must be moved on the new card automatically. The system must be reachable from the green network.

Test case 1/c

Multiple network interfaces system

- shutdown a configured system
- replace all the cards, or move system disk to another machine
- power on the new system

At the end of system boot procedure, the system asks to pick up the new cards for the green interfaces. Follow on-screen instructions. The system

must be reachable from green networks.

NOTE: The boot prompt lasts 120 seconds.

Test case 2/a

Multiple network interfaces system:

- prepare a backup of machine1
- restore configuration backup of machine1

No alert must be shown.

Test case 2/b

Single network interface system:

- prepare a backup of machine1
- install and configure a system on machine2
- restore configuration backup of machine1 into machine2

An alert pop up must direct the admin to the Rename Interface page.

Test case 2/c

Multiple network interfaces system:

- prepare a backup of machine1
- install and configure a system on machine2
- restore configuration backup of machine1 into machine2

An alert pop up must direct the admin to the Rename Interface page.

#4 - 02/26/2015 09:54 AM - Davide Principi

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

In nethserver-testing 6.6:

nethserver-backup-config-1.3.1-1.4.g1b43681.ns6.noarch.rpm

~~nethserver-base-2.5.5-50.66.g1dd7f0.ns6.noarch.rpm~~

nethserver-base-2.5.5-50.68.g8e27d8d.ns6.noarch.rpm

~~nethserver-httpd-admin-1.3.6-2.24.g6bc15f7.ns6.noarch.rpm~~

nethserver-httpd-admin-1.3.6-2.26.gd871325.ns6.noarch.rpm

#5 - 02/26/2015 01:12 PM - Davide Principi

Packager note

Documentation pull

<https://github.com/nethesis/nethserver-docs/pull/60>

#6 - 03/02/2015 12:05 PM - Davide Marini

- File Schermata da 2015-03-02 17_06_58.png added
- File 2c_1.png added
- File 2c_2.png added
- File 2b_1.png added
- File 2b_2.png added

Case 1/a: verified

the system show the message

"Reconfiguring network", after few seconds the interface is up and working

Case 1/b: verified

the system show the message

"Reconfiguring network", after few seconds the interface is up and working

Case 1/c : verified: see attached

Case 2/a : verified

Case 2/b : verified see attached

Case 2/c : verified see attached

#7 - 03/02/2015 12:05 PM - Davide Marini

- Status changed from *ON_QA* to *VERIFIED*

- % Done changed from 70 to 90

#8 - 03/03/2015 10:41 AM - Giacomo Sanchiotti

- Status changed from *VERIFIED* to *CLOSED*

- % Done changed from 90 to 100

Released in nethserver-base:

nethserver-httpd-admin-1.3.7-1.ns6.noarch.rpm

nethserver-base-2.6.0-1.ns6.noarch.rpm

nethserver-backup-config-1.4.0-1.ns6.noarch.rpm

Files

Schermata da 2015-03-02 17_06_58.png	10 KB	03/02/2015	Davide Marini
2c_1.png	41.9 KB	03/02/2015	Davide Marini
2c_2.png	52.1 KB	03/02/2015	Davide Marini
2b_1.png	36.8 KB	03/02/2015	Davide Marini
2b_2.png	35.5 KB	03/02/2015	Davide Marini