openQA Tests - action #65429
coordination # 60071 (Resolved): [functional][y][epic] SLE 15 SP2 feature testing

[functional][y][SLE-8965][SLE-9793][timeboxed:20h] linuxrc Additional 'static' option for network setup

2020-04-08 07:59 - riafarov

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<th>Start date:</th>
<th>2020-05-11</th>
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Description
More details about feature:

SR to SLES https://build.suse.de/request/show/215467 (not accepted yet).

There is also nice description in the yast blog: https://yast-branch-sprint-97.surge.sh/blog/2020-04-20/sprint-97

Acceptance criteria
1. Scope of changes is learned
2. Exploratory testing is conducted for the parts which are not covered by the automated tests
3. Follow-up tickets for automated tests are created with detailed description in case are considered to be useful (efforts vs profit)
4. Jira ticket is updated accordingly

Content from trello:
Description: https://jira.suse.com/browse/SLE-8965
Dev-Task: https://jira.suse.com/browse/SLE-9791

What's Requested
As any system can currently have several network interfaces nowadays and it's often hard to distinguish the right one, Linuxrc supports ifcfg=eth*...() including VLAN, but we are asked to additionally support a new try in that command. This will try to setup the network on interfaces one by one and try to reach the installation system using that network. If that works, this network setup is considered to be successful and Linuxrc stops there.

Examples
- ifcfg=eth*=try,10.10.0.1,10.10.0.2,example.com
- ifcfg=eth*.66=try,10.10.0.1,10.10.0.2,example.com
- ifcfg=eth*=try,dhcp

Try is obviously optional

Implementation notes
As this is more or less about making the ifcfg option work the way the classical linuxrc network setup does (via hostip, gateway, etc) and these values are stored internally in config.ifcfg.manual here:

https://github.com/openSUSE/linuxrc/blob/master/global.h#L696

This might be as simple as filling up that struct with the ifcfg values if try is used.

Some additional housekeeping might be required, though.
This would imply that there can be only one ifcfg option with try. But that does not look like a serious restriction.

**Implementation Summary**

- the patch in the PR works with limitation that try option uses only reachability of installation repositories. Other network aware criteria such as dud, info, autoyast reachability are omitted for now.
- try option is supported for dhcp even static configurations. However makes sense only for static ones with pattern. All other variations are applied to all matching interfaces in the first attempt (ifcfg=eth*=try,1.1.1.1/24 will try to assign the configuration to eth0, eth1, ... one by one. In opposite to ifcfg=eth*=try,dhcp which is equal to ifcfg=eth*=dhcp and will assign dhcp config to all eth interfaces at once)
- linuxrc has already implemented some fallback mechanism. For backward compatibility the try option is used after this fallback for one configuration attempt
- travis job for some reason fails, however local build works fine

**Review**

https://github.com/openSUSE/linuxrc/pull/219

updated doc in https://en.opensuse.org/SDB:Linuxrc

**History**

#1 - 2020-04-15 09:22 - riafarov

  - Subject changed from [functional] [y] [SLE-8965] [SLE-9793] linuxrc Additional 'static' option for network setup to [functional] [y] [SLE-8965] [SLE-9793] linuxrc Additional 'static' option for network setup
  - Status changed from New to Workable

#2 - 2020-04-20 09:22 - riafarov

  - Description updated

#3 - 2020-04-28 09:04 - oorlov

  - Status changed from Workable to In Progress
  - Assignee set to oorlov

#4 - 2020-05-05 08:32 - riafarov

  - Due date changed from 2020-05-05 to 2020-05-19

#5 - 2020-05-11 10:38 - oorlov

  - Due date changed from 2020-05-19 to 2020-05-11
  - Start date changed from 2020-04-08 to 2020-05-11

due to changes in a related task: #66685

#6 - 2020-05-11 10:42 - oorlov

  - Due date set to 2020-05-19

#7 - 2020-05-11 10:43 - oorlov

  - Status changed from In Progress to Resolved

Feature test passed.

Ticket for automated test added: https://progress.opensuse.org/issues/66685