qe-yast - action #91758
coordinator # 71242 (Closed): [epic] Unify validation in the installed system

Validate raid partitioning layout using test data instead of regex
2021-04-26 12:55 - JERiveraMoya

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
<th>Start date:</th>
<th>2021-04-6</th>
</tr>
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<td>Priority:</td>
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<td>Due date:</td>
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<tr>
<td>Assignee:</td>
<td>riatarov</td>
<td>% Done:</td>
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<td>Category:</td>
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<td>Target version:</td>
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Description
In tests/console/validate_raid.pm we use utilities lsblk and mdadm to validate our raid scenarios via regex.
lsblk has options to export to json which we can parse applying use Mojo::JSON 'decode_json' and compare easily against test data for each scenario.
mdadm can be parsed with some smart regex having pairs of values afir, but requires some investigation, there are some options available:

    mdadm --examine -E
    mdadm --detail
    mdadm --examine --brief

With --export output is easy to extract and looks like:

    MD_LEVEL=raid5
    MD_DEVICES=4
    MD_METADATA=1.2

With --examine also with regex we can get those pairs:

    /dev/sda:
        Magic : Intel Raid ISM Cfg Sig.
        Version : 1.0.00

In the same way we introduce some mapping (some hash in Perl) for the input data, we might need something similar here in some cases (i.e.: msdos->MSDOS) depending of the output of the command.
We have available every single output for each architecture, check for example here but we might need to run those command with different parameters, so it is better to check most of the output first as there are variations.
Another suggestion is to not try to examine more than one drive with a command so it simplifies the logic.

Ideas:

1. Consider https://metacpan.org/pod/Config::IniFiles to check the output in favor of not using regex;
2. Implementation of 'mdadm' should be done in scope of this ticket. For 'lsblk' part please see https://progress.opensuse.org/issues/91755.

Related issues:
Related to qe-yast - action #91755: Split functionality for validating partit... | Closed | 2021-04-26

History
#1 - 2021-04-27 07:51 - JERiveraMoya
- Description updated

#2 - 2021-04-27 07:52 - JERiveraMoya
- Description updated

#3 - 2021-04-27 09:07 - oorlov
- Related to action #91755: Split functionality for validating partitioning in partitions_validator_utils into more reusable functions added

#4 - 2021-04-27 09:07 - oorlov
- Description updated
- Status changed from New to Workable

#5 - 2021-04-29 07:46 - riafarov
- Status changed from Workable to In Progress
- Assignee set to riafarov

#6 - 2021-04-30 13:35 - riafarov
https://metacpan.org/pod/Config::Tiny is available and we can use it.

#7 - 2021-05-04 07:00 - riafarov
- Status changed from In Progress to Feedback

https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/12461

#8 - 2021-05-07 06:30 - riafarov
https://progress.opensuse.org/issues/91758

#9 - 2021-05-07 06:31 - riafarov
- Status changed from Feedback to Closed