Iscsi initiator takes following step:

- logon to an iSCSI target
- make a single partition
- make an EXT4 filesystem on that partition
- mount that partition
- write to a file there
- read from the file there

We are assuming that these steps are synchronous. For example, logging in to a target will create a local disc device, but it takes a moment, since udev actually handles it. And making a single partition actually causes the kernel code to re-read the starting part of the disc in order for it to recognize that you now have a partition table when before there was none. In both of these examples, the result is asynchronous. So we really need to be able to wait for your desired result before going on.

To test this, perhaps you can just add some "sleep" calls in your openQA test to see if timing might be your issue. I'd suggest a "sleep 2" (just to be overly safe) between the "make a partition" step and the "make an EXT4 filesystem" step, since making the EXT4 filesystem seems to be the step that sometimes fails.

Lastly, looking back to your initial error text, it looks like the test is trying to restart open-iscsi.

```
[  320.908142] systemd[1]: Started Hostname Service.
[ 326.785627] systemd[1]: Started Open-iSCSI.
[ 326.871707] systemd[1]: Stopping Open-iSCSI...
[ 417.027160] systemd[1]: iscsid.service: Stopped Open-iSCSI.
[ 417.030997] systemd[1]: iscsid.service: Main process exited, code=killed, status=9/KILL
[ 417.033006] systemd[1]: Stopped Open-iSCSI.
[ 417.039294] systemd[1]: iscsid.service: Unit entered failed state.
[ 417.051231] systemd[1]: iscsid.service: Failed with result 'timeout'.
[ 417.053334] systemd[1]: Started Open-iSCSI.
```

the "stop" part fails, resulting in systemd having to send a kill signal to oiscsi to stop. The "stop-sigterm failed" message is not good. And then to restart the service when it is in a failed state leads to kernel initiator/target communications, in the form of 3 different reconnection attempts. It almost looks like it keeps logging into the target but the target keeps booting it off?

As far as the test, it would be good to tear it down correctly, so that repeated connections to the target do not cause problems. That means we need to log out of the target after unmounting the disc.
#4 - 2019-01-28 16:00 - mloviska
- Status changed from In Progress to Blocked

Blocked by https://bugzilla.suse.com/show_bug.cgi?id=1123381 on sle12sp5. Discovery auth is enabled along with login auth.

Works fine on sle15sp1:
https://github.com/os-autoinst/os-autoinst-distri-opensuse/pull/6645

#5 - 2019-02-11 11:56 - okurz
- Target version set to future

mloviska care to set https://bugzilla.suse.com/show_bug.cgi?id=1123381 as blocker and update this ticket's due date depending on when you want to check on the bug again?

#6 - 2019-02-11 12:11 - mloviska
I will check in the middle of next sprint. I do not expect many code updates for sle12sp5, just only needlework.

#7 - 2019-02-12 10:43 - riafarov
- Due date changed from 2019-02-12 to 2019-03-12

We expect the bug to get fixed.

#8 - 2019-02-27 09:17 - mloviska
- Status changed from Blocked to In Progress

Testing DUD:

- https://w3.nue.suse.com/~kanderssen/bug_1123381/

#9 - 2019-02-27 13:44 - mloviska
- Status changed from In Progress to Blocked

local VRs using yast2-iscsi-lio-server-3.2.2-1.noarch.rpm.

- sle-12-SP5-Server-DVD-x86_64-Build0122-iscsi_client@64bit
- sle-12-SP5-Server-DVD-x86_64-Build0122-iscsi_server@64bit

#10 - 2019-02-28 13:48 - mloviska

- SR in new state

#11 - 2019-03-07 08:22 - mloviska

SR accepted

#12 - 2019-03-12 14:55 - riafarov
- Due date changed from 2019-03-12 to 2019-04-09

SR is for maintenance, we might need another SR for SP5, let's check if gets unblocked.

#14 - 2019-03-27 11:27 - riafarov
- Due date changed from 2019-04-09 to 2019-04-23

Latest SP5 build still contains version 3.2.1. I've commented in the bug, I hope Knut will help us there and create SR for SP5, otherwise we can clone one for SP4.

#15 - 2019-04-24 06:45 - riafarov
- Due date changed from 2019-04-23 to 2019-06-04
SP5 finally got yast2-iscsi-lio-server version yast2-iscsi-lio-server-3.2.2-1
As there is PR already, let's try to get it merged.

It might be that we need extra changes for SLE 12 SP5, but in general code from the PR should work straight away.
Requires MM test.

this is nice, yaml schedule rocks!

updated variables.md PR
- VRs - original test suite with 2-way auth (initiator <-> target), discovery auth not configured:
  - iscsi_client_normal_auth_backstore_fileio@64bit
  - iscsi_client_normal_auth_backstore_fileio@64bit

#27 - 2019-07-11 07:49 - mloviska

- VRs plain disc:
  - iscsi_client_normal_auth_backstore_hdd@64bit
  - iscsi_server_normal_auth_backstore_hdd@64bit

#28 - 2019-07-11 10:21 - mloviska

- VRs lvm
  - iscsi_client_normal_auth_backstore_lvm@64bit
  - iscsi_server_normal_auth_backstore_lvm@64bit

#29 - 2019-07-11 10:36 - mloviska

Documentation PRs:

- test plan update
- updated variables.md

#30 - 2019-07-16 09:07 - riafarov

- Status changed from Feedback to Resolved