

## qe-yast - action #105449

coordination # 105437 (Workable): [Epic] Refine our testing of multipath

### Create new test module for testing multipath

2022-01-25 17:39 - geor

<b>Status:</b>	Workable	<b>Start date:</b>	2022-01-25
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Current		

#### Description

#### Motivation

The FCP topology on our z/VM testing infrastructure has recently been updated and the [zfcplib testsuite](#) needs a new test module to validate multipathing.

#### Task

The idea is to check the status of the known infrastructure, and the status of multipathing on top of it.

**AC1:** Verify that there are two host bus adapters attached, and that the corresponding channels (0.0.fa00, 0.0.fc00) are listed

```
# ls -l /sys/class/fc_host
total 0
lrwxrwxrwx 1 root root 0 Dec 19 17:53 host0 -> ../../devices/css0/0.0.0005/0.0.fa00/host0/fc_host/
host0
lrwxrwxrwx 1 root root 0 Dec 19 17:53 host1 -> ../../devices/css0/0.0.0006/0.0.fc00/host1/fc_host/
host1
```

**AC2:** Based on the output of lsscsi:

```
# lsscsi -xxgst
[0:0:0:0x4001403200000000] disk fc:0x500507630703d3b30x760f00 /dev/sda /dev/sg0 214GB
[0:0:0:0x4001405000000000] disk fc:0x500507630703d3b30x760f00 /dev/sdb /dev/sg1 42.9GB
[0:0:1:0x4001403200000000] disk fc:0x500507630708d3b30x761000 /dev/sdc /dev/sg2 214GB
[0:0:1:0x4001405000000000] disk fc:0x500507630708d3b30x761000 /dev/sdd /dev/sg3 42.9GB
[1:0:0:0x4001403200000000] disk fc:0x500507630718d3b30x771000 /dev/sde /dev/sg4 214GB
[1:0:0:0x4001405000000000] disk fc:0x500507630718d3b30x771000 /dev/sdf /dev/sg5 42.9GB
[1:0:1:0x4001403200000000] disk fc:0x500507630713d3b30x770f00 /dev/sdg /dev/sg6 214GB
[1:0:1:0x4001405000000000] disk fc:0x500507630713d3b30x770f00 /dev/sdh /dev/sg7 42.9GB
```

- verify that there are 8 SCSI block devices listed (as a result of having two adapters, two hard disks and two paths to each disk,  $2^3 = 8$ )
- verify that LUN 0x4001403200000000 corresponds to the 214GB disk, and LUN 0x4001405000000000 to the 42.9GB disk

**AC3:** Based on the output of multipath -l:

```
# multipath -l
36005076307ffd3b30000000000000132 dm-0 IBM,2107900
size=200G features='1 queue_if_no_path' hwhandler='1 alua' wp=rw
`-+- policy='service-time 0' prio=0 status=enabled
  |- 0:0:0:1077035009 sda 8:0 active undef running
  |- 0:0:1:1077035009 sdc 8:32 active undef running
  |- 1:0:0:1077035009 sde 8:64 active undef running
  `-- 1:0:1:1077035009 sdg 8:96 active undef running
36005076307ffd3b30000000000000150 dm-41 IBM,2107900
size=40G features='1 queue_if_no_path' hwhandler='1 alua' wp=rw
`-+- policy='service-time 0' prio=0 status=enabled
  |- 0:0:0:1079001089 sdb 8:16 active undef running
  |- 0:0:1:1079001089 sdd 8:48 active undef running
  |- 1:0:1:1079001089 sdh 8:112 active undef running
```

```
`- 1:0:0:1079001089 sdf 8:80 active undef running
```

**AC4:** Enable the validation in YaST group and Maintenance.

- verify that the multipath device with WWID 36005076307ffd3b3000000000000132 corresponds to the 200G disk and the multipath device with WWID 36005076307ffd3b3000000000000150 to the 40G disk
- verify that there are 4 block devices listed for each virtual multipath device, and those corresponds to the right LUN (1077035009 and 1079001089)

## Suggestion

It might help to check [this confluence article](#) for some more insight on the output of the above commands.

## Note

This ticket requires that [poo#105440](#) has been completed.

## History

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**#1 - 2022-01-25 17:40 - geor**

- Description updated

- Parent task set to #105437

**#2 - 2022-01-25 17:41 - geor**

- Description updated

**#3 - 2022-01-25 17:41 - geor**

- Description updated

**#4 - 2022-01-25 17:43 - geor**

- Description updated

**#5 - 2022-01-25 17:43 - geor**

- Description updated

**#6 - 2022-01-26 10:03 - JERiveraMoya**

- Description updated

**#7 - 2022-01-26 10:05 - JERiveraMoya**

- Tags deleted (qe-yast-refinement)

- Description updated

- Status changed from New to Workable