

QA - action #33682

[sle][functional][s390-kvm][hard][u] Create a useful documentation for the automated LPAR setup/qnopl

2018-03-22 14:55 - nicksinger

Status:	Resolved	Start date:	
Priority:	Normal	Due date:	2018-08-28
Assignee:	mgriessmeier	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	Milestone 18		
Description			
#33223 showed us how to setup a SCSI-drive to kickstart a SLES installation from the initramfs by using kexec to chain-load several "bootloader" steps. This knowledge now needs to be preserved for future in form of documentation. This includes (ACs):			
<ul style="list-style-type: none">• How to setup the "magic" bootstrap SCSI-disk<ul style="list-style-type: none">◦ Partitioning◦ zipl installation• How to use qnopl (partly done in https://github.com/nicksinger/dracut-qnopl/blob/master/README.md)• Limitations/Pitfalls/Improvements• Reproduce the setup			
Notes:			
<ul style="list-style-type: none">• https://progress.opensuse.org/projects/openqav3/wiki#s390x-Test-Organisation would be maybe a good place to put all the info• Move dracut-qnopl into a non-private repo (maybe openQA org?)• bootstrap SCSI-disk is a shared medium between several LPARs and Infra/gschlotter is needed to link LPAR <-> SCSI-bootstrap-disk• Example cmd to start an LPAR remote (e.g. from a x86_64 host): snipl -f ./snipl.conf -s P0069A27-LP3 -A fa00 --wwpn_scsiload 500507630713d3b3 --lun_scsiload 4001401100000000 --ossparms_scsiload "install=http://openqa.suse.de/assets/repo/SLE-15-Installer-DVD-s390x-Build533.2-Media1 hostip=10.161.159.3/20 gateway=10.161.159.254 Nameserver=10.160.0.1 Domain=suse.de ssh=1 regurl=http://all-533.2.proxy.scc.suse.de"			
Notes about the "magic" bootstrap disk:			
<pre>linux-kboz:~ # lsblk NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT sda 8:0 0 10G 0 disk sda1 8:1 0 10G 0 part 36005076307ffd3b30000000000000111 254:0 0 10G 0 mpath 36005076307ffd3b30000000000000111-part1 254:1 0 10G 0 part sdb 8:16 0 10G 0 disk sdb1 8:17 0 10G 0 part 36005076307ffd3b30000000000000111 254:0 0 10G 0 mpath 36005076307ffd3b30000000000000111-part1 254:1 0 10G 0 part linux-kboz:/boot/zipl # sfdisk -d /dev/sda label: dos label-id: 0x1323e80f device: /dev/sda unit: sectors /dev/sda1 : start= 2048, size= 20969472, type=83 linux-kboz:/tmp/test # mount /dev/mapper/36005076307ffd3b30000000000000111-part1 /tmp/test linux-kboz:/tmp/test # find . . ./zipl ./zipl/bootmap ./image_installer ./lost+found ./initrd_installer</pre>			

```

./zipl.conf
./initrd_zipl
./image_4.12.14-16.2
./image_zipl
./custom_initramfs
./image_4.12.14-11.2

linux-kboz:/tmp/test # find .
.
./zipl
./zipl/bootmap
./image_installer
./lost+found
./initrd_installer
./zipl.conf
./initrd_zipl
./image_4.12.14-16.2
./image_zipl
./custom_initramfs
./image_4.12.14-11.2
linux-kboz:/tmp/test # file *
custom_initramfs:  XZ compressed data    <- generated by dracut with qnipl-module enabled
image_4.12.14-11.2: Linux S390
image_4.12.14-16.2: Linux S390
image_installer:   Linux S390
image_zipl:        Linux S390
initrd_installer:  XZ compressed data
initrd_zipl:       XZ compressed data
lost+found:        directory
zipl:              directory
zipl.conf:         ASCII text           <- IIRC needed for `zipl` to generate/write the z-bootl
oader

linux-kboz:/tmp/test # cat zipl.conf
## This file was written by 'grub2-install/grub2-zipl-setup'
## filling '/etc/default/zipl2grub.conf.in' as template
## with values from '/etc/default/grub'.
## In-place modifications will eventually go missing!

[defaultboot]
defaultmenu = menu

[custom]
target = /mnt/network_boot/zipl
ramdisk = /mnt/network_boot/custom_initramfs
image = /mnt/network_boot/image_4.12.14-16.2
parameters = "rd.break=initqueue TERM=dumb plymouth.enable=0 "

:menu
target = /mnt/network_boot/zipl
timeout = 0
default = 1
prompt = 1
1 = custom

```

History

#2 - 2018-03-22 14:56 - nicksinger

- Subject changed from [\[sle\]\[functional\]\[s390-kvm\]\[u\] Create a useful documentation for the automated LPAR setup/qnipl to \[sle\]\[functional\]\[s390-kvm\]\[hard\]\[u\] Create a useful documentation for the automated LPAR setup/qnipl](#)

Writing documentation is always hard for devs...

#5 - 2018-03-22 14:57 - nicksinger

- Due date deleted (2018-04-10)

- Start date deleted (2018-03-28)

#6 - 2018-04-02 18:26 - okurz

- Due date set to 2018-04-24

#7 - 2018-04-06 05:39 - nicksinger

- Status changed from In Progress to Workable

huh... forgot to set back to workable after writing the README.md from qnipl.

#8 - 2018-04-11 08:21 - okurz

- Due date deleted (2018-04-24)

- Assignee deleted (nicksinger)

- Target version changed from Milestone 15 to Milestone 16

how do you feel about <https://progress.opensuse.org/issues/33682> in the current sprint? I will move it but if you think someone will really commit to accomplishing it in S15 we can move it back

#9 - 2018-04-29 19:09 - okurz

- Due date set to 2018-06-05

#10 - 2018-05-23 10:13 - SLindoMansilla

- Due date changed from 2018-06-05 to 2018-06-19

Not enough capacity during sprint 18

#11 - 2018-06-09 12:54 - okurz

- Target version changed from Milestone 16 to Milestone 17

That's M17 by now then

#12 - 2018-06-19 08:21 - mgriessmeier

- Due date changed from 2018-06-19 to 2018-07-03

note down first steps, what was already done - to have a better starting point later on

#13 - 2018-06-19 08:21 - okurz

- Description updated

#14 - 2018-06-20 08:51 - riafarov

Missing step: link it to wiki or some other place which is visible for people who are not aware about the specific repo.

#15 - 2018-06-21 13:21 - nicksinger

- Description updated

#16 - 2018-06-21 13:49 - nicksinger

- Description updated

#17 - 2018-06-21 13:49 - nicksinger

- Description updated

#18 - 2018-06-21 13:50 - nicksinger

- Description updated

#19 - 2018-06-21 13:51 - nicksinger

- Description updated

#20 - 2018-06-25 10:49 - nicksinger

- Status changed from *Workable* to *In Progress*

Topic now documented at the [progress-s390x-wiki](#). Assigning to [mgriessmeier](#) to cross-check it.

#21 - 2018-06-25 10:49 - nicksinger

- Status changed from *In Progress* to *Feedback*

- Assignee set to [mgriessmeier](#)

#22 - 2018-06-25 12:00 - nicksinger

I also tried to find the right place to host the github repo:

```
12:47 <nsinger> I'm looking for the right place to put https://github.com/nicksinger/dracut-qnipl . coolo, okurz would you say https://github.com/os-autoinst is the appropriate org for it? Or is there a better org for such things?
```

```
13:47 <okurz> nsinger: it does not depend on os-autoinst or openQA, right? Then I guess openSUSE namespace could work
```

```
13:48 <okurz> nsinger: I guess rbrown is happy to create a repo for you within https://github.com/openSUSE if you like
```

```
13:57 <nsinger> okurz: well it is not only restricted to openQA but the whole use-case arises out of that context. However, I like the idea of using openSUSE and will follow up on that
```

and therefore have asked rbrown about a new repo:

```
13:58 <nsinger> hey there. Would you be so kind to create a repo inside the openSUSE org on github where I could move https://github.com/nicksinger/dracut-qnipl to?
```

```
13:58 <nsinger> I can also write a short mail if required. Just let me know :)
```

#23 - 2018-06-25 12:28 - nicksinger

Got access to the openSUSE org. I've created a "secret" openqa-users group in there to transfer the repo to this team. Wiki-links already updated.

#24 - 2018-06-28 20:00 - okurz

- Project changed from *SUSE QA* to *QA*

#25 - 2018-07-17 13:56 - okurz

- Due date changed from *2018-07-03* to *2018-07-31*

- Target version changed from *Milestone 17* to *Milestone 18*

We do not understand right now what is missing for resolution.

#26 - 2018-08-22 11:45 - okurz

- Due date changed from *2018-07-31* to *2018-08-28*

[mgriessmeier](#) please crosscheck with nsinger what is the current state and if there is anything missing from your point of view. I suggest to also use a "test person" to see if he can find the LPAR documentation with only a little hint and considers the documentation "useful" enough.

#27 - 2018-08-28 06:44 - mgriessmeier

okurz wrote:

We do not understand right now what is missing for resolution.

permission to close this still missing

#28 - 2018-09-10 08:12 - okurz

- Status changed from *Feedback* to *Resolved*

so I assume you want to set it to "Resolved" then. I will try to manage the users for the progress project better.