

Agenda: Xen (both x86 and Arm) Community Call May 2019

No new items were added to the agenda. *Minutes are added in blue. Closed ACTIONS in green.
Open ACTIONS in red.*

April minutes were at

<https://docs.google.com/document/d/1B279exjoLW1-7aL4Y-dxtS8NY-EUwJ7uTt8qEKWAmFY/edit#heading=h.mz1wjb9vekjin>

Attendees (right now based on past attendees - delete/add as appropriate)

Lars Kurth, Wei Liu, George Dunlap, Paul Durrant, Andy Cooper, Roger Pau Monné (Citrix)
Juergen Gross, Jan (Suse)
Brian Woods (AMD)
Tamas K Lengyel (Intel)
Daniel Kiper (Oracle)
Christopher Clark (OpenXT Project)
Julien Grall (Arm)
Rich Persaud (OpenXT)
Stefano Stabellini (Xilinx)

Contains past regular attendees (which makes it easier to keep the list correct)

Actions not yet resolved

1: Tailored instances of Xen (Daniel/Apertus): continuing the Nov 2018 discussion of KCONFIG/L0 hypervisor use cases. More details upcoming via wiki page.

2. OSS/Macro Supply Chains: Feb 2019 discussion on best practices for tracking and maintaining code which originated in other open-source communities, e.g. QEMU or Linux.
<https://lists.gt.net/xen/devel/544613>

ACTION: Should have 1 document of files that lists what comes from Linux and need to be monitored - Lars to facilitate (work with Stefano and Jan on this)

- A discussion happened on IRC with a way forward
- **Next step:** Lars to make proposal on xen-devel@, possibly with script

Proposed Agenda Items

AMD mwait V2 patch set (Brian)

Discussed off-line. Nothing on the mailing list ever happened
Andy will look at it

Brian doesn't mind Jan's suggestions. Want an independent view

Jan: was thinking to remove mwait-idle and use the original function => this removes the discussion altogether

ACTION: Brian to ping the series to summarize this chat and Andy to look into it

"[Xen-devel] Criteria / validation proposal: drop Xen" - and improvements to OSSTEST / Working with Distros (Lars)

a) OSSTEST of released Fedora guests - non-controversial
Should create a list of guest OSes we test in OSSTEST

We only test a random list of guests and never really reviewed whether this is sensible

x86 HVM guests:

debian-9.4.0-{i386,amd64}-CD-1.iso

rhel-server-6.1-i386-dvd.iso

win10v1703-x86.iso

win7-x64.iso

ws16-x64.iso

FreeBSD-10.1-CUSTOM-{i386,amd64}-20150525.raw.xz

Debian HVM {i386,amd64} via debian-installer netinst [1]

x86 PV guests:

Debian PV {i386,amd64} via debian-installer netinst [1]

ARM guests:

Debian PV via debian-installer netinst [1]

[1] whatever Debian release osstest itself mostly runs.

There is an issue with guests which have auto-update (e.g. 6.1 will test 6.10)

Andy: most breakage comes from kernel version

Andy: in practice everything is turning into HVM guests due to better HW - Focus on HVM

ACTION: kick of thread on xen-devel (Lars)

b) Offering to test Fedora Dev builds - seems fairly non-controversial if easy
Ian volunteered to implement if he gets help with the installer

OK.

Lars to include in reply to Fedora

c) Improve communications - it should not have taken that long to get escalated to the project leadership

Marek kind of volunteered to make sure there is a communication bridge and would most likely help monitor test results, but not do the actual testing

Andy: In the past week, at least two devs who use Fedora on IRC reported that it does not work

George: main issues are not with Fedora and Xen, but with EFI and Grub

George: could share some Fedora and CentOS spec file

Andy: uCode loading under Arch - several forum posts on what to do. A few things would be very simple to fix. Point: all of the bleeding edge distros have issues. Better outreach.

Fedora, Arch, Gentoo. Maybe a list

Rich: do we have a github/gitlab mirror? Was set up by Doug Goldstein

Have a more detailed discussion in the minutes about tickets, etc.

ACTION: Lars to maybe include in a proposal (Lars)

d) Resolution of the specific technical issues - Daniel Kiper will join the call and drive this section

Issue 1: Xen DomU - nothing to add

Issue 2: Grub2 & multiboot caused by grub CVE => not possible to load xen on uefi using grub/multiboot. Certificate checking?

Do we care about dom0 fedora. Andy: Support for secure boot into Xen definitely needs to be resolved. => YES

Daniel is looking for someone else to pick up the work?

ACTION: Lars to find someone to pick this up on list

- What do we need to change in Xen to make this work
- Some patches were posted but never were upstreamed (these were Daniel's)

Next Steps: response to Fedora community - I will chat to george after

Unwedge master branch (Jan)

Wei: submitted patch, but it was not tested - with any luck we will get a push tomorrow

Paul is going to work on a fix

Hopefully we will be all set

IOMMU groups (any initial feedback?) (Paul Durrant?)

Just wanted to highlight as this will be a lot of work

Want to fix PCI assignment

Quick update of first Functional Safety SIG meeting (Stefano, Artem, George if they are happy to do so)

- Rich wants to be invited

OpenEmbedded build script for upstream Xen (Rich):

Proof-of-concept script to cross-compile Xen for x86 and Arm, with the upstream OE meta-virtualization layer. Tested on Devuan Ascii x64. Can we provide some coverage of OpenEmbedded in Gitlab CI, e.g. weekly builds? OE meta-virtualization is used by automotive, DornerWorks, Epam, Xilinx and OpenXT.

<https://github.com/dozylynx/oe-build-xen/>

<https://www.platformsecuritysummit.com/2018/speaker/ashfield/>

Also helps make sure that OE does not break Xen and vice versa

Automated Testing collaboration (Rich)

Linaro, kernel CI, Redhat and OE/Yocto collaboration: kernel-focused microconference at Linux Plumbers Conference (Sept), Automated Testing Summit at ELCE (Oct).

https://elinux.org/Automated_Testing_Summit

ACTION Lars: see whether is a tie-in with **Functional Safety SIG and/or Ian**

People working on this are in Cambridge, UK

ACTION: Rich to see whether connections can be made

New Series / Series that need attention

Briefly discussed Brian's mwait series and to find a way forward in which driver to implement
Too complex to resolve on the call - needs some more thought to resolve

TODO: ADD ITEMS HERE

AOB

Lars to make sure