2015 Xen Project Community Plan for Advisory Board

Draft

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FY15 Goal, Strategy & Initiatives

Secure the long term success of the Xen Project eco-system

Drive momentum of Xen Project and its sub-projects [Hypervisor, XAPI, Mirage OS, Automotive, Windows PV Drivers]



Remove barriers to Xen Project user adoption Improve Xen support within the OpenStack community

Remove Barriers to contribution and create better collaboration between sub-projects

Improve Xen Project Quality and Security

AR & PR

Retrospective:

- We had incredible growth in terms of media & social coverage
- We had pro-active participation from ARM, Cavium Systems, Citrix & Intel (and GlobalLogic, OnApp & Horizon Digital Economy as part of subproject launches)
- We have an evolving narrative around Innovation
- We did not hold the Analyst meeting as planned (we did meet RedMonk only)
- We are struggling with getting user endorsements

The Opportunity:

- It would be good if more AB members would participate in activities
- We have a good narrative as starting point: Xen Project as Innovation Platform

AR & PR : Goals, Deliverables & Metrics

Goal:

- Leverage Xen Project Awareness and drive narrative as Innovation Platform
- Ideally, more diverse participation in media activities

Deliverables:

ACTION: Sarah to flesh out

- ACTION: Sarah to provide reasonable measurable success metrics
 - Should have a growth related metric
 - Should have a qualitative metric
 - Should have a metric related to AB vendor participation

User Community

Retrospective:

- We had some successes within the user community, such as
 - Increased social media and community engagement as well as increased web visits
 - The traffic on the Q&A system on the website has grown several 100%

• BUT:

- New users are struggling to learn Xen compared to other competing technologies. In particular issues with integrations are extremely poorly documented.
- We still don't have good channels to our users
- Our approach to user focussed events has not worked : proposal no more User Summits.

The Opportunity:

- On-ramp content targeting new users via on-line channels
- An increasing number of VMWare users seems to be looking for FOSS alternatives

User Community: Goals, Deliverables & Metrics

Goal:

 Remove barriers to Xen Project user adoption through targeted on-line material using on-line channels for maximum reach, re-use and cost efficiency

Deliverables:

- On-line video and text tutorials initially targeting xl, libvirt, VMWare users and OpenStack
- Move to online User Events, with the option of organizing a face-2-face local user meeting if we can find local hosts
- Organize a user survey to get information on user's needs

- Launch user survey and deliver analysis for further planning
- One major video tutorial per quarter, with associated text material
- Two on-line events: stretch goal one local user event

Xen in OpenStack

Retrospective:

- Xen dropped from #2 in the Hypervisor league table to #5
- This was mainly due to two factors
 - Threat of deprecation of Hypervisors in Quality Group in 2014
 - Lack of leadership by Xen Community members within OpenStack

The Threat:

- In the long run, we must fix this, otherwise the Xen Project's position will become increasingly difficult
- The project is already significantly behind in market segments that are OpenStack centric (e.g. NFV)
- Some of the users are struggling: see http://superuser.openstack.org/articles/pass-the-mic-user-spotlight-alvaro-lopez-garcia-ifca

Xen in OpenStack: Goals, Deliverables & Metrics

Goal:

Improve Xen support within the OpenStack community

Deliverables:

- Set up a Working Group of Interested AB members
- Resourcing to improve pass rates (the Citrix FOSS team is volunteering 1)
- Leadership within the OpenStack community (if no-one else steps up, I and/or Stefano Stabellini can do this)
- Infrastructure: 20-25 8GB RAM & 4vCPU VMs for running the OpenStack CI loop for group B. We need a second different cloud/hosting instance to get into group A.

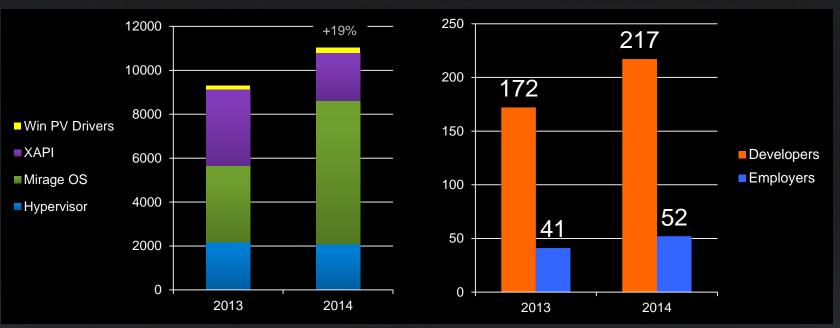
- Xen+LIBVIRT becomes part of Compute Driver Group B (alongside Hyper-V, VMWare, XenServer)
- Xen+LIBVIRT becomes part of Compute Driver Group A (alongside qemu/KVM on x86)

Development Velocity Overview (all subprojects of Xen Project)

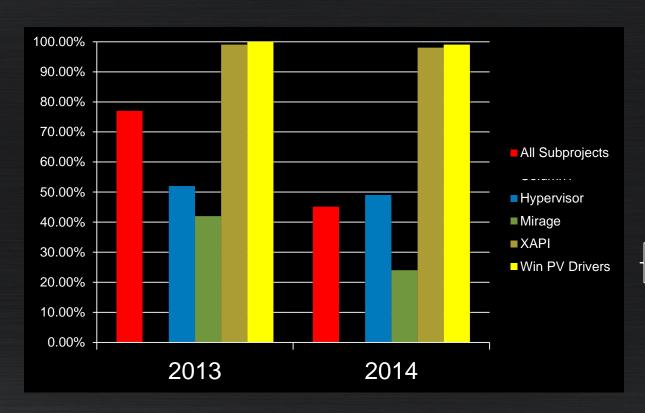




Unique Developers & Orgs



Citrix Code Contributions in % to Xen Project



XAPI is only used in XenServer

Win PV Drivers were only recently contributed to the Xen Project

Developer Community

Retrospective:

- Overall we achieved the goal of 10% growth
- However, that growth was driven largely by Mirage OS
- Hypervisor growth was flat in terms of numbers. There are a number of observations
 - Review capacity has remained flat => Newcomers take up more review bandwidth and take longer to get their code accepted; code waiting for review is increasing
 - Yet, there has been a doubling in new features every major release since Xen 4.3
 - The core developers have become more effective => More focus on design, better code more collaboration
 - Core developers are focussing on integrations and distros (e.g. libvirt, OpenStack, CentOS, Test Framework)
 - Too many features are stuck in experimental state, e.g. Credit2, Nested Virt, etc.
- GSoC and OPW were successful in terms of participation
 - BUT: is this actually translating into employment opportunities (quick survey amongst members)

Developer Community

The Goal:

Remove Barriers to contribution and create better collaboration between sub-projects

Deliverables:

- Provide regular training for developers (translate existing material and extend)
- Build a repository of design information to make it easier fro newcomers to join
- Improve tooling and processes (in particular around reviews, maintainers, ...)
- Work with AB members to increase active maintainership of existing or newly contributed code
- Operational: Hackathon, Developer Summit, Automotive Summit, OPW, travel stipends, etc.

- > 10% Contribution to the Hypervisor from subproject participants
- > 10% total community growth (as well as 10% growth in the hypervisor)
- Ensure that Mirage, Automotive, Win PV Drivers grow by 10% while Citrix contribution in terms of percentage shrinks

Quality and Security

Retrospective:

- Test Infrastructure took a long time to get off the ground; ETA February
- Working with AllNet has been problematic at times (lack of Linux knowledge, which is outsourced to a 3rd party). Owner is sometimes unreliable and conflict of interest.
- Security in Xen as well as Xen web infrastructure is increasingly becoming an issue
 - Sysadmin and maintenance is provided by a combination of volunteers (Xen developers), Citrix IT,
 AllNet and .
 - We had a number of outages (e.g. blog, main site, ...) and spam attacks (wiki, forums, ...)
- Security process update (see http://bugs.xenproject.org/xen/bug/44)

Quality and Security: Goals, Deliverables & Metrics

Goal:

- Improve Xen Project Quality and Security
- Include sysadmin of Xen web real estate (wiki, lists, etc.) through a 3rd party supplier

Deliverables:

- Complete migration to new Test Infrastructure (end of february)
- Extend the Test Infrastructure with new Hardware as approved by the board
- Establish a software strategy for the Test infrastructure going forward
- Consolidate sysadmin support for Xen Project to minimize overheads
- Review new updated security process in Q3 (almost ready to roll out the new version for voting)

- Do we need another quality related and security related metric? This is rather hard
- One that makes sense is maybe looking at test contributions from the community, uptime, pass rates

Allocation of Resources

Goal	Ask from AB members	Spending: \$365K + \$55K GA
#1: Leverage Xen Project Awareness and drive narrative as Innovation Platform	More participation and input when it comes to media activities	\$105K per year
#2: Develop more on-line material focused at end-users	Guide the objective Help disseminate content where appropriate	\$15K in 2015
#3: Improve Xen support within the OpenStack community	Engagement and support from those members that care about OpenStack. Who? Citrix is willing to lead, if necessary	20-25 8GB RAM & 4vCPU VMs for running the CI loop (two separate cloud providers, one initially) Cost? \$15K per year
#4: Remove Barriers to contribution	Plan for maintainership of existing or newly contributed code	Training, OPW, GSoC,: \$35K Developer event slush fund: \$30K
#5: Improve Xen Project Quality and Security		New COLO HW: \$80K Hosting (2 racks): \$50k with set-up Infrastructure maintenance: \$30K
Operational		\$5K for face-2-face meetings