Open Source Hypervisor

Xen.org
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I would not say many 'issues' around using Xen, but 'challenges' are addressed there [in the community] with the things every virtual machine has to deal with. Things such as: I/O-issues, guaranteed scheduling issues, domain zero security concerns,…

The community out there is very helpful. That was a very big reason for us in selecting Xen."
Community History

- **2002** Xen hypervisor development starts
- **2004** Xen 1.0 and 2.0 released, First Xen developer’s summit
- **2005** XenSource founded, Xen 3.0 released
- **2006** CPU enhancements for virtualization; Linux distros ship Xen
  All x86 OSes “enlightened”, VMware and Microsoft adopt paravirtualization
  First XenEnterprise release
  Amazon EC2 Launches
- **2007** XenSource acquired by Citrix Systems, Inc.
- **2008** Xen embedded in Flash on HP/Dell servers
  First embedded Xen on laptops
- **2009** “Under Construction”
Xen Hypervisor

First and best support for hardware assisted virtualization

Intel VT & AMD-V Technologies

Xen Hypervisor
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High Performance 64 bit Architecture

Open reference standard hypervisor

Tiny, embeddable, secure component of every device

Secure design vetted NSA, & DoD, w/ granular resource control
Xen Project Mission

• Build the industry standard open source hypervisor
  – Core "engine" that is incorporated into multiple vendors’ products

• Maintain Xen’s industry-leading performance
  – Be first to exploit new hardware acceleration features
  – Help OS vendors paravirtualize their OSes

• Maintain Xen’s reputation for stability and quality
  – Security must now be paramount

• Support multiple CPU types; big and small systems
  – From server to client to mobile phone

• Foster innovation

• Drive interoperability
Xen Project Advisory Board

- Represents major contributors and vendors that offer Xen based products. Current members:

- Defines and approves the Xen® Trademark Policy (“What is Xen?”)
- Oversees community code practices and roadmap
Xen Community: Information Sources

• Xen.org Site
  - Source Code www.xen.org/download
  - Blog blog.xen.org
  - Mailing Lists lists.xensource.com
  - Projects www.xen.org/community/projects.html
  - Wiki wiki.xensource.com
  - Weekly Community Update
    wiki.xensource.com/xenwiki/XenWeekly
  - Case Studies wiki.xensource.com/xenwiki/Xen_Case_Studies

• Other Sites
  - Solution Search Tool xen.cyberneticos.com
  - Social Networking Facebook, XING, LinkedIn, Ohloh, Plaxo, Twitter
  - Marketing Community (Xen Champions) xenchampions.ning.com
About Xen.org. Xen.org is the home of the open source Xen® hypervisor, a fast, secure industry standard code base for operating system virtualization. Founded and led by Ian Pratt the community benefits from the hundreds of contributors from leading IT infrastructure and security vendors. Development of the community is guided by the Xen Advisory Board, which is drawn from key contributors to the project. Find out more at www.xen.org.
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  – Projects www.xen.org/community/projects.html
  – Wiki wiki.xensource.com
  – Weekly Community Update wiki.xensource.com/xenwiki/XenWeekly
  – Case Studies wiki.xensource.com/xenwiki/Xen_Case_Studies

• Other Sites
  – Solution Search Tool xen.cyberneticos.com
  – Social Networking Facebook, XING, LinkedIn, Ohloh, Plaxo, Twitter
  – Marketing Community (Xen Champions) xenchampions.ning.com
For More Information
Please Contact
Community Manager
stephen.spector@xen.org

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