

Novell® SLES 10/Xen

Roadmap Presentation

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SUSE Linux Enterprise Server 10

SLES 10 w/Xen 3.0.2 is now available

- SLE 10

- Details

- > shipped July 17
 - > featuring Xen 3.0.2
 - > first enterprise class Linux distribution to include Xen
 - > robust and stable solution for specific workloads

- Three components of the release

- > server SLES
 - > desktop SLED
 - > Novell Customer Care - a support mechanism combining online and 24/7 technical support

- Acceptance

- > incredible reception - nearly ½ million SLE downloads in the first 8 weeks
 - > huge interest in Xen

THANK YOU

- Thanks to EVERYONE in the Xen community
- You did it!!!
 - on time
 - quality
 - stable

Novell Paravirtualized Xen OS Ports

Xen Port: SUSE Linux Professional

- 10.0 Dec '05
 - Xen 3.0.0
 - Kernel 2.6.13
- 10.1 Jun '06
 - Xen 3.0.2
 - Kernel 2.6.16

Xen Port: openSUSE

- SUSE Linux Professional renamed to openSUSE
- Community and development version of Linux
- 10.2 release
 - scheduled for 4th QTR '06
 - > Xen 3.0.3
 - > Kernel 2.6.18
 - alpha 4
 - > released on Thursday, 7th of September
 - > first release on the way to “code 11”
- <http://www.opensuse.org>
- 6 month release schedule

Xen Port: SLES 9

- SLES 9 SP4
 - technical preview status
 - domU only
 - kernel 2.6.5
 - not committed product at this time
 - available for evaluation on our XTP site

Xen Port: SLES 10

- SLES 10 Gold Master
 - Release 17 Jul '06
 - Kernel 2.6.16
 - Xen 3.0.2

Xen Port: NetWare

- NetWare 6.5
 - Targeted for release spring 2007
 - Part of the Open Enterprise Server product line

Xen Port: Summary

- Linux Ports (32, 32PAE, x86-64)
 - SUSE Linux Professional 10.0
 - SUSE Linux Professional 10.1
 - openSUSE 10.2
 - SLES 9
 - SLES 10
- NetWare (32, 32PAE)
 - NetWare 6.5

Novell Supported Xen Hypervisors

Novell Supported Xen Hypervisor

- Hypervisor ports
 - 32
 - 32 PAE
 - x86-64
- Paravirtualized guest support
- Fully virtualized guest support
 - Intel VT
 - AMD-V

SLES 10 Xen Tools

Virtual Machine Management Tools

- YaST module for single box VM administration
 - Guest Creation
 - > Paravirtualized Guest
 - > Fully Virtualized
 - Booting existing images
 - Managing resource assignments
 - Shutdown
 - VM Cleanup
 - etc.

Futures & Roadmap

openSUSE

- open SUSE 10.2
 - release 4th QTR '06
 - domU kernel 2.6.18
 - Xen 3.0.3
 - first release on the way to “code 11”
- openSUSE tracks the “tip”
 - latest Xen
 - latest kernel

Open Enterprise Server (OES)

- OES
 - code named (Cypress)
 - release spring of 2007
 - OES Linux
 - > set of Novell enterprise services layered on SLES 10 SP1
 - > will only run as a domU
 - OES NetWare
 - > traditional NetWare operating system paravirtualized
 - > roughly the same set of Novell services as OES Linux
 - > will only run as a domU
 - OES Linux or OES NetWare
 - > native, fully virtualized (Intel VT or AMD-V), paravirtualized

SLES 10 SP1

- Release spring of 2007
 - domU kernel version 2.6.16
 - Xen version?
 - dom0 kernel version?

SLES 10 SP1 Release Issues

- SLES kernel versions do not change between major releases
 - SLES 10 will stay at 2.6.16 for the life of the product
- Xen is moving forward at a very fast pace
 - dom0 kernel and Xen hypervisor are a matched set
 - dom0 tools are dependent on the kernel/hypervisor versions

SLES 10 SP1 Release Issues

- How do we satisfy the customer demand for Xen updates?
 - Until the rate of innovation slows down a bit, what seen and unforeseen technology advances will break backward/forward compatibility?
 - How will we address those issues?
 - What can we do now to minimize the impact?
 - We don't know all the questions let alone the answers.
 - We need the Xen community to look seriously at these issues and treat them as a community issue not just a distro problem.

Xen Technical Preview Site

Xen Technical Preview (XTP)

- XTP is location on forge.novell.com
 - pre-release vehicle for
 - > partners
 - > testers
 - > early adopters
 - <http://forge.novell.com/modules/xfmod/project/?xenpreview>

Q&A

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