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 exiting 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