Novell® Open Enterprise Server 11 (coming soon)

Dariusz Leonarski
Senior Consultant
DLeonarski@novell.pl
Agenda

- Introduction to OES (11)
- Migration & Deployment
- Future & Roadmap
- Demonstration
- (Questions and) Answers
Open Enterprise Server 11
Why SUSE® Linux Enterprise?
Most Reliable Linux

Lowest Average Unplanned Downtime

Lowest Average Patch Time (planned downtime)

Source:
Information Technology Intelligence Corporation, ITIC 2009 Global Server Hardware and Server OS Reliability Survey, July 2009
SLES® 11 Features and Lifecycle

• Benefit from SLES 11 advancements
  - Rich ISV and IHV ecosystem support
  - Improved performance with scheduler optimizations
  - Improved CPU, memory and storage scalability
  - Green innovations ("Tickless idle" and power profiles)
  - Updated Xen hypervisor
  - Patch up to 100 times faster

• Seven year support life cycle

• SLES 11 Certifications
Open Enterprise Server 11

Lower Cost

- Leverage existing NetWare® /OES file, print, directory and management tools
- Save costs with Storage Management
- Unlimited Xen Virtualized Servers
- New Storage tools reduce administration

Confidence

- Benefit from the world’s best Linux – SUSE® Linux Enterprise Server 11
- Thousands of Linux Hardware & Software Certifications
- Virtualize with your vendor of choice
- Most reliable Server Operating System

Innovation

- Be a leader with the latest Linux innovations
- Easy upgrades of the robust File and Print Services you trust
- A new platform for agile delivery of new features
- Next Generation File Experience with “Novell Neutron”
# Open Enterprise Server 11

## Workloads with Deployment Flexibility

<table>
<thead>
<tr>
<th>User &amp; IT Productivity</th>
<th>Interoperability</th>
<th>File Storage</th>
<th>Networking &amp; Management</th>
<th>Networking &amp; Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>iFolder</td>
<td>Enhanced Upgrade Utilities</td>
<td>Novell Linux Volume Manager</td>
<td>Novell Cluster Services</td>
<td>iPrint</td>
</tr>
<tr>
<td>Domain Services for Windows</td>
<td>SAMBA</td>
<td>AFP stack</td>
<td>CIFS stack</td>
<td>Identity Manager 3.6 Bundle Edition</td>
</tr>
<tr>
<td>POSIX File Systems</td>
<td>Dynamic Storage Technology</td>
<td>Archive &amp; Versioning</td>
<td>Novell Storage Services (NSS)</td>
<td>DFS w/ Junction Support</td>
</tr>
<tr>
<td>Novell Client</td>
<td>NetStorage</td>
<td>DNS &amp; DHCP</td>
<td>Novell eDirectory</td>
<td></td>
</tr>
<tr>
<td>Auto YaST</td>
<td>Novell iManager</td>
<td>Novell Remote Manager</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **XEN Virtualization**

---

**SUSE Linux Enterprise Server 11 SP1**
OES11 File Server
File System
Feature Pack Updates and Futures

 NSS
• SSD Cache Support & other
• Performance enhancements
• Client-less Salvage

Dynamic Storage Technology
• Quotas
• Remote volumes

Btrfs Support
• Novell® Rights, Salvage, cluster services
• Exabyte Volumes

Data is Gold. OES provides the storage infrastructure you trust.
Novell Linux Volume Manager
OES11 Storage Management

Flexible Storage Management

- Mix NSS with Posix File Systems on the same Device*
- Create a Single Partition for a Pool up to 8TB (formerly 2TB)
- Take advantage of Disks/LUNS greater than 2TB
- Pool Move Utility
- Move a single Pool to another location
- Move Pools expanded over multiple devices to single device
- Seemless Upgrade from OES2, NetWare
- Seemless Cluster setup for NSS or Posix volumes from NSSMU

*PosixFile System must be created first.
iPrint Enhancement
Platform-Based Driver Migration

• During migration, it is now possible to selectively migrate drivers for specific operating system platforms

• Benefits:
  – Avoid migrating outdated platforms drivers if not in use and thus save on disk space
iPrint Enhancements
Direct XML Import

• The print manager can now directly rebuild the database using XML file without any dependency on iPrintman.

  Syntax: ./ipsmd -x <XML File Name>

• Use Cases:
  – Disaster recovery during database corruption
  – Bulk creation of iPrint objects
iPrint Enhancements
More Dependable Migration

• Simplified architecture (removed dependency on Open WBEM and iPrintman)
• Separated bulk eDirectory™ operations
• Driver migration using Secure Copy (SCP)
• Service health check using Secure Shell (SSH)
iPrint Enhancements
More Dependable Migration

For more information, refer to iPrint Migration Best Practices Guide.
iPrint Enhancements
Java IPP Based iPrintman

• Completely rewritten using Java language
• Unified management interface (uses IPP)
• Works with regular eDirectory™ users
• Runs on Windows workstations
  (untested and unsupported as of now)
iPrint Enhancements
iPrint Windows Client goes beyond Novell® Client™

• Integrated with Windows Log-on service.
• Both Secure Printing and iPrint Client Management work seamlessly even when Novell Client is not in place
• Gives more native feel for Windows users

Use Cases

• Deployments using eDirectory™/Active Directory synchronization (Under beta with an existing IDM customer)
iPrint
Future Feature Pack Updates

• Print from any Mobile Device
  – No Drivers required on the device
  – Printing rendered on the server
  – As easy as sending an email

• iPrint Appliance
  – Automated Print Setup for Edir
  – iPrint AD appliance (Date TBD)

• MAC Enhancements
  – Safari Browser Driver upload
  – Secure Printing
Cross-Platform Authentication
Domain Services for Windows

Business Apps require AD authentication?

Leverage your best-in-class eDirectory identity store for all apps in your enterprise

Go Clientless leveraging login scripts through AD Group Policies

Planned Feature Patches
- NCP Client integration
- Bi-Directional Trust
- 3rd Party DNS compatibility
Comprehensive Management
Future Feature Pack Update

- Dsrepair for Linux
- OES Nagios Monitoring Plugins
- Automated Linux User Management (LUM)

Management tools that save IT time and money.
OES and Virtualization
Interoperability and Cost Advantages

Interoperability - “The Perfect Guest OS”
• VMware, Citrix Xen, Xen guest support
• Alliances with Citrix and VMware

Novell® Cloud Manager
• Robust Virtualization Management
• Can manage Xen, Hyper-V and VMware guests

Platespin Tools
• Migrate P2V to Xen or VMware
• Image existing server for hardware move

Cost Advantage
• Xen Virtualization
• Deploy as many virtualized servers at no additional charge
Novell Business Continuity

Have you planned for Data Center Failure?

When 99.999% uptime is required, BCC is the choice for OES customers.
Cluster Services Futures
Future Feature Patch Updates

- Granular Management
- Intelligent Service Management (single node cluster)
- New User Friendly UI
- Auto-Load Balance (future)

How much does downtime cost your business?

Best of breed High Availability Solutions from Novell keep your business running smoothly.
Simplified and Flexible Deployments
Future Feature Patch Updates

- SUSE® Studio is your build service
  - Cloud Service or On-Premise
  - Simple build process
  - Delivers formats of choice
  - VMware, Hyper-V*, Citrix-XEN*, OSS-XEN, Hard Disk / USB image, Live CD/DVD

- OES Templates
  - Optimized for specific OES Services
  - Provided by Novell® and Community
  - Automated with Autoyast
Simplified and Flexible Deployments

• NetWare® to OES2 or OES11 in-place Upgrade
  - Upgrade on same hardware
  - Scripted update and fail-back
  - No need to touch clients
  - Uses SUSE® Studio OES image and provided scripts
  - Tech Preview available in September 2011

Delivered as:
1) Cool Solutions document
2) Consulting Engagement
The Process – High Level Overview
In-Place Upgrade to Novell® Open Enterprise Server

Build Upgrade-DVD
*templates from SUSE Studio
*scripts from CoolSolutions

Backup Identity (mig-pre.ncf on Upgrade-DVD)
* collect server-identity
* backup and close eDirectory

Replace OS (Boot Upgrade-DVD with restore.sh)
*replace NetWare (SYS) with OES (/)

Restore Identity (mig-oes.sh)
*restore Server-identity
* Restore eDir
* configure OES services

one
two
death
done
Do you have NOWS?

Novell® Open Workgroup Suite (NOWS) customers will now be entitled to all the following products:

- Novell Open Enterprise Server
- Novell GroupWise®
- Novell Vibe™ OnPrem (NEW!)
- ZENworks® Configuration Management
- ZENworks Endpoint Security Management (NEW!)
- ZENworks Linux Management
- SUSE Linux Enterprise Desktop
- LibreOffice
OES 11 Feature Patches

Futures
Feature Patch
Stream Delivery Model (example)

Each Stream will determine a target date for delivery of a set of features. Roadmaps will reflect a set of expected deliverables per the determined plan.

Mid-Year

iPrint

DSFW

Management / Misc

File Server

Note – New Features are delivered in a Separate Patch channel

DNS/DHCP
Java Console
Nagios Plugin

iManger NSS
Rights Mgmt

DFS Junction Mgmt

Lines up with OES/SLES SP

© Novell, Inc. All rights reserved.
Feature Patch Updates

Patch Channels Example

Channel Patch Updates

OES11SP1

Feature Patch Updates

Mobile iPrint (supported)

Experimental

Mobile iPrint
Experimental

Feature Patch Updates are supported against the latest support pack.
Where We Are Going
Open Enterprise Server

2011
OES 2

2012
OES 2 SP3
SLES 10 SP4

2013
OES 2
End of General Support

OES 11

OES 11:
• SLE11 SP1
• Migration tools
• NRM Updates
• Volume Manager
• MAC 10.7 DHX2
• Patch Performance

OES 11 SP1:
• SLE11 SP2
• Stability Updates
• Automated Upgrades

OES 11 Feature Patch Updates:
• DSfW Updates
• Studio Appliances
• Mobile Print

Neutron v1 and v2:
• New mobile File Experience
• OES, NW, NetApp, Win2K8

OES 11 Feature Patch Updates:
• Cluster Load Balancing
• LUM Automation
• NSS SSD Support
• DST remote volumes
• Posix File system enhancements
• Intelligent Service Management

Neutron v3
OES Roadmap
Feature Patches and Support Packs

Note: Bi-monthly Patch Updates for OES have not changed and will continue to be delivered.
Spojrzenie od strony handlowej ...
Novell Open Workgroup Suite (NOWS)

- Windows Server 2008 = OES + SUSE Linux Ent. Server 10/11
- System Center Configuration Man. = ZENworks Configuration Management
- Exchange Server = GroupWise 8
- SharePoint Portal Server = Novell Vibe OnPrem 3
- Office 2010 = LibreOffice.org Novell Edition
- Windows 7 = SUSE Linux Enterprise Desktop 11
**Cena produktów MS vs. pakietu NOWS na przykładzie zakupu licencji na 100 użytkowników**

### Porównanie kosztów zakupu rozwiązań Microsoft i Novell

<table>
<thead>
<tr>
<th>Grupa</th>
<th>Nazwa produktu</th>
<th>SKU</th>
<th>Ilość</th>
<th>Cena/lic.</th>
<th>Wartość</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aplikacje</td>
<td>OfficeProPlus SNGL LicSAPk OLP NL</td>
<td>269-05577</td>
<td>100</td>
<td>€ 822</td>
<td>€ 82 230</td>
</tr>
<tr>
<td></td>
<td>ExchgEntCAL 2010 SNGL OLP C UstrCAL woSrvcs</td>
<td>PGI-00436</td>
<td>100</td>
<td>€ 42</td>
<td>€ 4 167</td>
</tr>
<tr>
<td></td>
<td>ExchgSvrEnt 2010 SNGL OLP C</td>
<td>395-04361</td>
<td>1</td>
<td>€ 4 068</td>
<td>€ 4 068</td>
</tr>
<tr>
<td></td>
<td>SharePointEntCAL 2010 SNGL OLP C UstrCAL</td>
<td>76N-03433</td>
<td>100</td>
<td>€ 83</td>
<td>€ 8 333</td>
</tr>
<tr>
<td></td>
<td>SharePointSvr 2010 SNGL OLP C</td>
<td>76P-01197</td>
<td>1</td>
<td>€ 4 947</td>
<td>€ 4 947</td>
</tr>
<tr>
<td></td>
<td>SQLCAL 2008R2 SNGL OLP C UstrCAL</td>
<td>359-05354</td>
<td>100</td>
<td>€ 164</td>
<td>€ 16 448</td>
</tr>
<tr>
<td></td>
<td>SQLSvrEnt 2008R2 SNGL OLP C</td>
<td>810-08553</td>
<td>100</td>
<td>€ 8 627</td>
<td>€ 8 627</td>
</tr>
<tr>
<td></td>
<td>SysCtrMgmtSte SNGL LicSAPk OLP C PerUsr</td>
<td>MFF-00447</td>
<td>100</td>
<td>€ 68</td>
<td>€ 6 770</td>
</tr>
<tr>
<td></td>
<td>SysCtrMgmtSteEnt SNGL LicSAPk OLP C</td>
<td>MUY-00306</td>
<td>1</td>
<td>€ 1 576</td>
<td>€ 1 576</td>
</tr>
<tr>
<td></td>
<td>WinSvrCAL 2008 SNGL OLP C UstrCAL</td>
<td>R18-02659</td>
<td>100</td>
<td>€ 29</td>
<td>€ 2 936</td>
</tr>
<tr>
<td></td>
<td>WinSvrEnt 2008R2 SNGL OLP C</td>
<td>P72-04217</td>
<td>1</td>
<td>€ 2 367</td>
<td>€ 2 367</td>
</tr>
</tbody>
</table>

| Systemy  | WinPro 7 SNGL Upgrd OLP NL          | FQC-02371| 100   | € 192     | € 19 155|

**SUMA**

**Microsoft**

<table>
<thead>
<tr>
<th>ZESTAW</th>
<th>Nazwa produktu</th>
<th>SKU</th>
<th>Ilość</th>
<th>Cena/lic.</th>
<th>Wartość</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Novell Open Workgroup Suite 1-User License + 1-Year Standard Mai</td>
<td>877-002319</td>
<td>100</td>
<td>€ 9 800</td>
<td></td>
</tr>
</tbody>
</table>

**SUMA**

**Novell**

---

*Oferta Novella tańsza jest o ponad pół mln zł netto =*

---

*Ceny netto przeliczone na PLN po kursie z dnia 22.09.2011 (1 EUR = 22.09.2011)*

---

Powyższe ceny zostały podane w oparciu o dane zamieszczone na stronach producentów oraz w Internecie.
Ceny, oferty, dalsze informacje...

• Ceny promocyjne dla Polski
    - Szczegóły na www.novell.pl/promocje

• Infolinia handlowa
  - 0800 22 66 85
  - infolinia@novell.pl

• Zamówienie indywidualnej oferty
  - www.novell.pl/formularz.html
Nagrody za ankiety

• Podziel się opinią o naszym seminarium
  - Link do formularza z ankietą prześlemy jeszcze dzisiaj razem z linkiem do nagrania webinaru

• Wśród respondentów rozlosuujemy 5 kompletów ramek do tablic rejestracyjnych

• Zapraszamy na kolejne webinary:
  - 27 października – premiera GroupWise 2012
  - 3 listopada – premiera Sentinel 7
  - 15 listopada – ZENworks Config. Management SP2
  - 24 listopada – ZENworks Patch Management PL

- Rejestracja: www.novell.pl/whatsnew/kalendarium
Questions and Answers