Novell

www.novell.com

SEP

www.sepusa.com

Lanai Bayne
VP of Business Development
lb@sepusa.com

Lothar Wegner
OES Product Lead
lwegner@novell.com

Shane Brown
Senior Technical Support Manager
sb@sepusa.com

Agenda

- Novell Open Enterprise Server

    – OES Today

    – OES Futures

- Maximize Open Enterprise Server with backup and restore from SEP

Novell.

Novell® Open Enterprise Server

Novell®

OES Today
OES 11 Support Pack 1
(Over 50 new Features!)

OES11 Support Pack 1
Feature Summary

Single DVD Install

- Simplified integrated Installation

- No more swapping DVDs for install/upgrade

FTP remote Home Directory

- Centralized and flexible FTP file access

- User Auto-login to the home Directory specified in eDirectory

- Designed for additional scalability

Updated Ecosystem Support

- SLES11SP2, NICI 2.7.7, eDirectory 8.8.7

eDirectory Updates

- Improved performance & scale

- **New graphical DS Repair**

Domain Services for Windows

- Express Install

- Automated Install

Novell.

OES11 Support Pack 1
Feature Summary - Continued

Simplified Linux User Mgmt.

- Enhanced Workflows

- Ability to LUM enable by eDirectory Container

AFP Sub-tree search

- Simplifies Administration for Macs

- All users found in child OUs are automatically enabled

Virtualization Interoperability

- VMware, Xen, Citrix Xen today

- Hyper-V, KVM added for SP1

Windows Server 2008 Hyper-V™

KVM

Novell.

OES11 Support Pack 1
Feature Summary - Continued

Migration Tools

- Faster sync performance
  - Get patch for NW source
- Copy only Dir Trustees option
- Do not copy Trustees option

File System Management

- NCP Enable volumes in NSSMU
- Metamig Utility – save/restore trustees
  - Restore from Trustee.nlm
- Nssquota tool
  - Now supports volume quotas
  - Clear option removes quotas

Btrfs File system Support

- Use Btrfs with a Novell Cluster, Novell Client, or with the root partition
- Use File level snapshots to revert unwanted changes
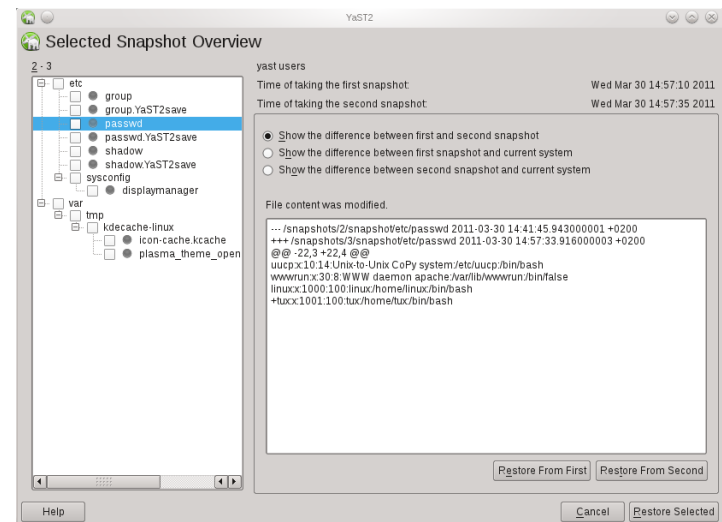
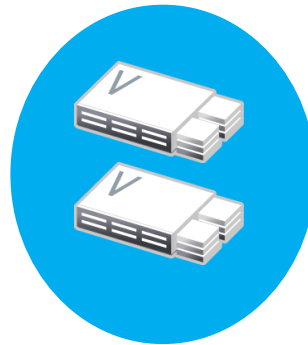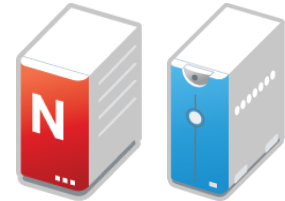**Novell.**

Novell Filr Now Included with OES

Filr

- Soft appliance on VMware
- Self contained VM option
- External MySQL db and Search VMs

clients

- Windows XP, 7, 8
- MAC* OS X 10.7, 10.8
- iOS 5.x, 6.x (iPhone, iPad)
- Android 2.3, 4.x
- Web access

- Web based management
- LDAP user/group provisioning
- Shared folders and home directory integration
- Policy controlled sharing

servers

- OES2 SP3, OES11 SP1
- Windows Server 2003, Windows Server 2008 R2
- File system rights and quotas honored
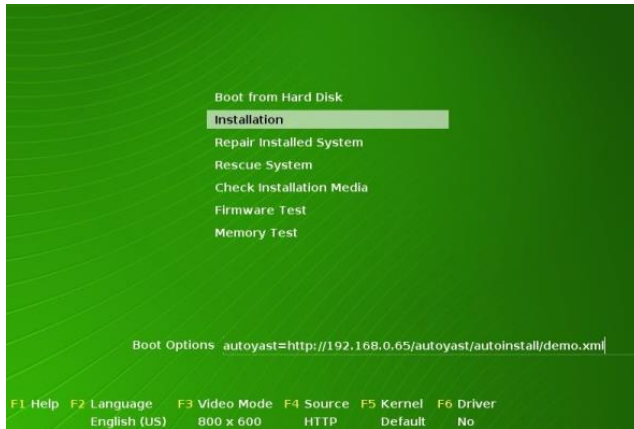- No server agents or schema extensions required

Novell.

OES 11 Support Pack 2 and Beyond

Simplified and Automated Deployments


```
Boot from Hard Disk
Installation
Repair Installed System
Rescue System
Check Installation Media
Firmware Test
Memory Test

Boot Options  autoyast=http://192.168.0.65/autoyast/autoinstall/demo.xml

F1 Help  F2 Language   F3 Video Mode  F4 Source  F5 Kernel  F6 Driver
         English (US)     800 x 600       HTTP      Default     No
```

OES Autoyast Tool

- OES AutoYast Tool
- Configure First – Automated Deployment later
- Create unique Server Deployments
- Edit existing Server profiles
- Clone Servers or modify a clone

Single Screen Install

Save Significant deployment costs through OES Automated Virtual or Physical deployments.

```xml
<networking>
  <dns>
    <dhcp_hostname config:type="boolean">false</dhcp_hostname>
    <domain>site</domain>
    <hostname>suse11-4</hostname>
    <resolv_conf_policy>auto</resolv_conf_policy>
    <write_hostname config:type="boolean">true</write_hostname>
  </dns>
  <interfaces config:type="list">
    <interface>
      <bootproto>dhcp</bootproto>
      <device>eth0</device>
      <startmode>auto</startmode>
    </interface>
  </interfaces>
  <ipv6 config:type="boolean">true</ipv6>
  <managed config:type="boolean">false</managed>
  <routing>
    <ip_forward config:type="boolean">false</ip_forward>
  </routing>
</networking>
```

Novell.

Cross-Platform Authentication
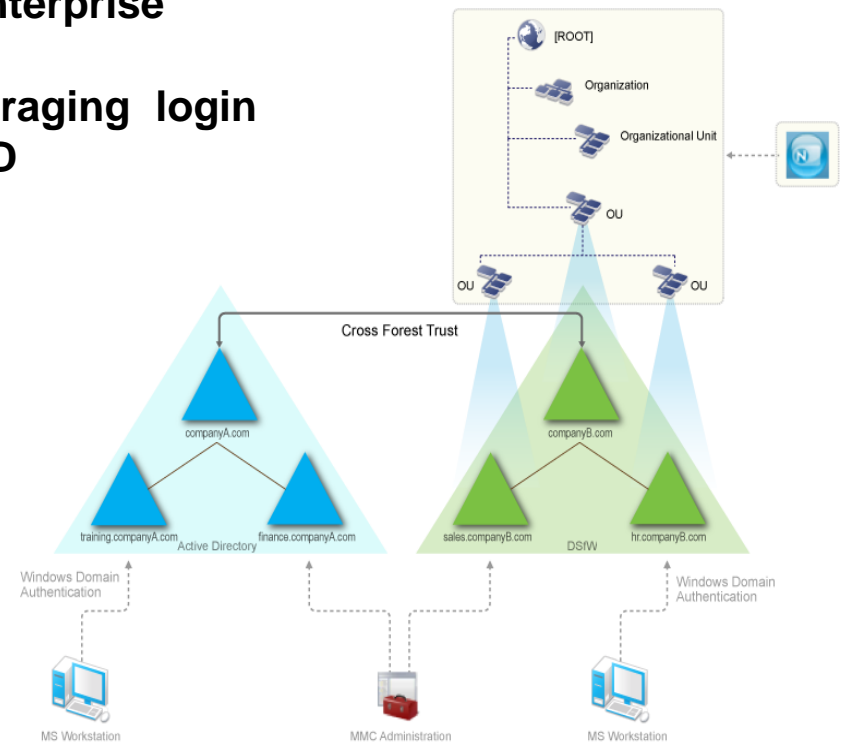## Domain Services for Windows

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 Updates
- NCP Client integration
- Sites & Services
- MAC Support
- NTLM Support
- WINS

[ROOT]
Organization
Organizational Unit
OU
OU
OU
Cross Forest Trust
companyA.com
training.companyA.com
finance.companyA.com
Active Directory
companyB.com
sales.companyB.com
hr.companyB.com
DSfW
Windows Domain Authentication
Windows Domain Authentication
MS Workstation
MMC Administration
MS Workstation

Novell.

OES Management & Protocol Updates

- ## File Server Management & Monitoring

  - CIFS/AFP – File / Connection - Management & Monitoring

  - DFS Locate and Manage Junctions

  - DST Quotas

  - Nagios, Ganglia based monitoring

- ## Protocol Updates

  - IPv6 Support

  - SMBv3

Novell.

File Server Updates - > 8TB NSS Pools

- Add support for > 8 TB NSS Pools

  - Easy in-place conversion

    - No double storage!!

  - Across the wire Migration - migtools

  - Pool Move and Convert (manual)

  - Large files – beyond 8TB

- Benefits

  - Supports data center growing storage needs >8TB volumes and file sizes

Novell.

File Server Updates – SSD Support
Rocket up Performance

NSS Optimized for SSD

- Meta-Data Cache Store
    – Rebuild/Verify Pools 10x faster
    – Backups 10x faster

- Data Store
    – Random read operations done at lightning speed
    – Higher scalability
    – Ideal for VDI deployments

File Server Updates

Rocket up Performance

Technical Enhancements:

- Delayed Block Allocation (faster read on disk)

- Spinlock avoidance for cached reads (fast cache read)

- Big Submit BIO – Write

- Integrated DirCache w NCP/CIFS

Benefits:
- Faster read & write performance
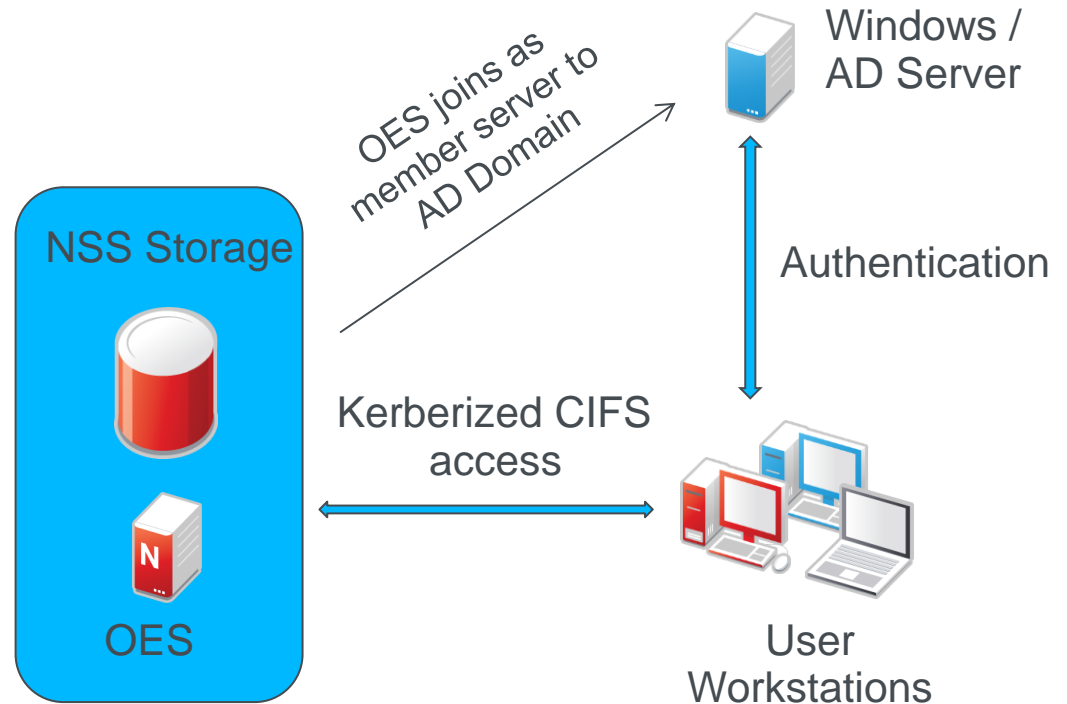- Reduced login times
- Faster Backups

Novell.

NSS access for AD users

Allows corporations with mandates to consolidate to one directory (AD) to leverage NSS file system investment and keep NSS features/benefits.

– MMC manages MS rights on NSS volumes

– User maps via CIFS to NSS, and leverages AD group policies for client drive mappings

– Works for DSFW environment and AD environment

NSS Storage

OES

OES joins as member server to AD Domain

Windows / AD Server

Authentication

Kerberized CIFS access

User Workstations

Novell.

Open Enterprise Server
Moving Forward

2H 2012 | **1H 2013** | **2H 2013**

Open Enterprise Server

OES 11 SP1:
- **SLE11 SP2**
- KVM & Hyper-V Support
- Btrfs Support
- Single DVD install
- FTP Home Directory
- AFP sub-dir login search
- NCS STONITH
- NCS management
- DSFW express install
- Automated Upgrade

Novell Client :
- Windows 8 Support
- SSO with Live ID & OES File shares

iPrint Updates :
- Windows 8

eDirectory 8.8.7 for OES2 and OES11

IDM 4 Bundle Edition

Novell Filr
- Dropbox for the enterprise

BCC for OES11

iPrint Appliance

OES11 SP2 :
- **SLE11 SP3**
- Simplified and Automated deployment
- DSFW - NCP & Mac support
- CIFS & AFP File/Connection Monitoring
- DST Quotas

Future (2014)
- IPv6 Support
- NSS AD Support
- NSS Performance

Novell.

N