Lotus on Linux Report -- Technical Edition

An IdoSphere webinar

Presented by: Bill Malchisky Jr.

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Friday, February 18, 2011

Session Title

What we will cover in this Webinar

1	Introduction
2	IBM's Commitment to Linux
3	Server-side Goodness with Domino, Sametime, et alia
4	Partitioning
5	Resources

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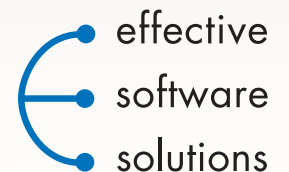
A Little Bit About Your Speaker...

- Working with Notes since 3.0c, in 1993
- Architect, admin, auditor, trainer, process engineer, team lead, "reformed developer"
- Co-authored two IBM Redbooks on Linux; several publications
- Significant regulatory compliance and Domino specialty project experience
- Linux aficionado

Finding Information in the Maze

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The state of Linux at IBM is:

Strong

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IBM's Linux Timeline – Part I
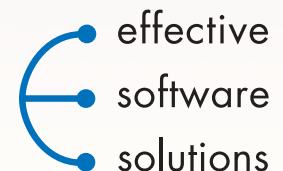
1999: Linux community involvement

2000: Linux on all IBM hardware pledge

    Invested $1B (£621M) into long-range planning

2001: $40M (£25M)software donation to form Eclipse organization

    1200 developers in 63 countries contribute

2003: Inaugural keynote—Linux Desktop Consortium

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IBM's Linux Timeline – The Middle

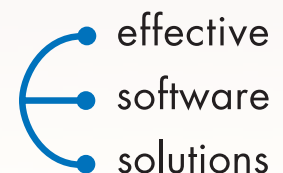**2003: Kicks-off its internal desktop conversion**

2005: IBM donates intellectual capital

    500 Patents to Open-Source Developers

2007: IBM joins OpenOffice Team

    Announced IBM Open Collaboration Client solution with Red Hat, Novell

2008: IBM announced open virtual client with Canonical and Virtual Bridges (VB)

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IBM's Linux Timeline – Part III

2009: IBM announced IBM Client for Smart Work in Africa and USA

>   Canonical, Virtual Bridges, and Red Hat

>   Linux Cloud offerings:http://tinyurl.com/ykvossk

>   zLinux value boost: "Linux saved the mainframe"

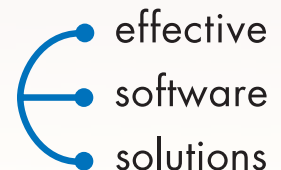**2010: IBM Announces leaving IE for Firefox**

>   145,000 internal users immediately switch

2010: Reaffirms "500 Patent Pledge" from 2005

>   http://tinyurl.com/29gt8d5

2011: Announces Virtual Desktop Initiative with Virtual Bridges, running on SLES11

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Beyond Cash Investments and Events...

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Major human capital investment too

- **Committed 600+ people, all dedicated to open-source development**
- **Actively contributing to Linux and <u>over 150</u> other open source projects and communities**
  - ▶ **Apache and Apache projects**
  - ▶ **Eclipse, Mozilla Firefox**
  - ▶ **OpenOffice.org, Document Foundation (LibreOffice; project fork)**

Source: "IBM & the Linux Community", http://www-03.ibm.com/linux/community.html

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IBM Created Two Competency Centers – #1

Linux Technology Center (LTC)

Houses the 600+ people working on open-source initiatives

IBM Technical competency center for Linux

http://www-03.ibm.com/linux/ltc/index.html
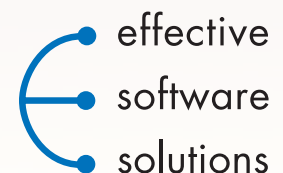
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Linux Information Center (LIC)

Dedicated to bringing Linux technology to the marketplace

Helps new midmarket customers looking to deploy Linux solutions

Assists BPs seeking to develop and deliver Linux-based integrated solutions

http://www-03.ibm.com/linux/lic.html

Provides Valuable Legal Support

Software Freedom Law Center

Legal representation and related services to protect and advance Free, Libre and Open Source Software (FLOSS)

Represents the best in well-established free software and open source projects

Open Invention Network

Intellectual property company formed to promote Linux through patent utilization, creating a collaborative ecosystem

Free Software Foundation

Mission is to preserve, protect, and promote the freedom to freely utilize software

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Focused Linux investment yields

    All IBM servers supporting the Linux operating system

    500+ IBM software products on Linux – and climbing

    A full line of implementation, support, and migration services for Linux

    Lotus software brand supports the three major Linux flavors

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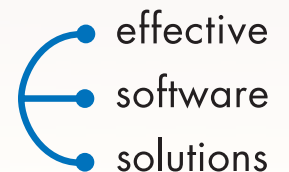
Lotus Domino Development Perspectives

x64 Domino for Linux is in the plan, but not in D8.5.x

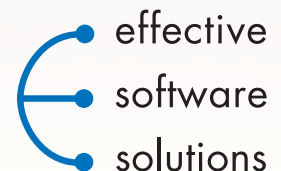> **Mostly testing at this point**

Lotus Development is looking to upgrade their compilers

> **Been using the same compilers for a long time, want more functionality**

Source pack is shared amongst all platforms

> **Linux, AIX, Windows: take source, dump to the desired platform, and compile**
>
> **So, typically, one mistake here can impact all builds**

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No Ubuntu server till sufficient demand

  Really do not see a need for it

  Red Hat and SUSE are more than adequate

Canonical needs to improve their build model for Domino consideration
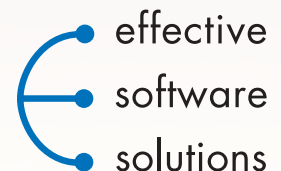
  Canonical lacks enterprise support model for Ubuntu server

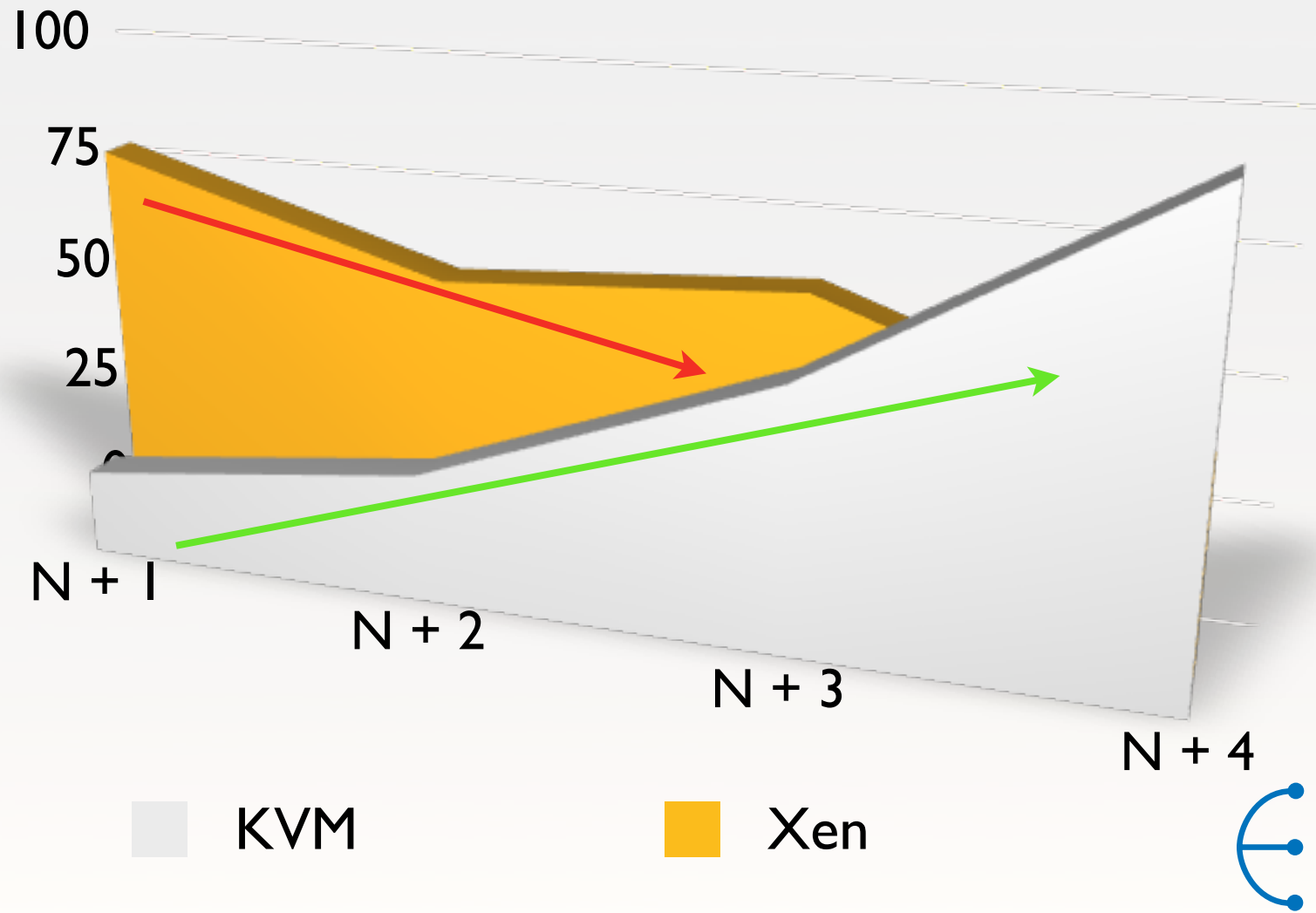 **Novell offers eight (8) years for SLES, which Canonical lacks**

  Missing enterprise server-class support model

   Need to provide service packs, fixes over the lifespan

   Just no major development

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Domino and Virtualization Support

Who's Getting New Support?

KVM is definitely in an upward market

> Xen's marketshare is lacking

The software group provides the direction on supported products

Domino 8.5.3 technote in the works on which virtualizations supported
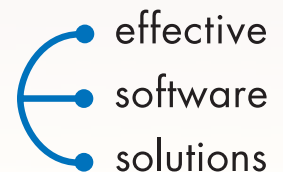
> Next point release will be mostly core group fixes

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Who's Not?

Solaris is still supported on D8.5.x

    i386 only

    No plans for x64

        But it is not needed, as Domino runs great as is

Domino next support is being considered
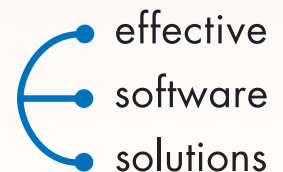
Domino on Linux:
It Just Works!

Designed to work out-of-the-box

Just simple tuning is all that is needed

> **Respective file systems**

> **Operating system**

Lotus Development works hard on making that happen well

What About The Service Script?

Have changed my position here...Domino on UNIX/Linux really doesn't need one,

> but I understand why people think they want one.

How often do you reboot a Linux server versus a Window server?

> People want one as a security blanket, as it makes sense in Windows to have the auto restart option.

"Well, we store a server.ID password."

> Then you definitely do not want a script
>
> Scripts here, would store the password in plain text

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Script Suggestions

Use Daniel Nash's version

> http://www.nashcom.de/nshweb/pages/startscript.htm

Or build your own

> Have several clients that create their own script

"We want a console."

> A script---on any platform---won't help much
>
> But Daniel does allow for this with his script

Safety Tip with Scripts

If running Daniel's wonderful script...avoid the "clean" option with Symantec
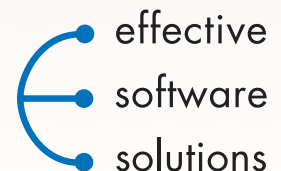
> **Especially in a multi-server (DPAR) setup**
>
> **Symantec uses semaphores and links all DPARs back to the first server launching the Symantec instance**
>
> **Domino does not know of the other DPARs, so running clean will wipe all the semaphores to the other instances with Symantec up and then...**
>
> *****CRASH*****

A quick way to drop your entire Domino network.

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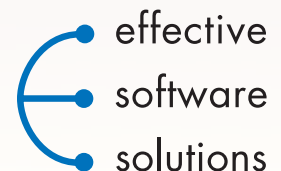**Make sure you adjust the file descriptors**

> Domino provides a convenient pop-up message on the server console and log when you start your server

"If Lotus knows it needs to be done, why don't they do it?"

> Legacy applications.

> Backward compatibility.
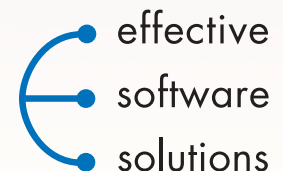
> They do not know what is sitting on your server.

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Speaking of Consoles...

Know that on Windows 2008 server, it does not display the Domino console anymore

> **There exists a session 0 issue**
>
> **All services run as session 0, which is not the desktop (session 1)**
>
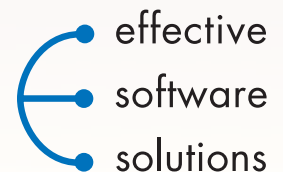> **So, you need the Java console here**

What about market share?

Linux is close to even with Windows now in the enterprise for Domino

- **People want to cut costs**
- **You can migrate without changing hardware**
- **Extremely attractive option overall**

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LotusLive Uses Linux?

LotusLive Notes is running x64 Linux on Series x servers to keep costs low

> Stated at LS in a session as well

> No IMAP, DIIOP available; no C-API or LS Toolkit -- so adjust your test plans

The future is x64 and the cheapest implementations of that are on Intel/AMD

Do I Really Need x64?

Traveler needs x64 OS for heavier workloads

> Can exceed the 4GB memory limit in testing with a high number of users

In the mail space x64 is not really needed, outside of Traveler

> Mail is very well behaved

But, on application servers, or if running anti-virus like Trend Micro or Symantec, or backup software, you need x64

> Running all of the JVM and process all of the I/O demands x64 in production

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Lotus Notes: Follows the Lead

Supports all three major Linux distros

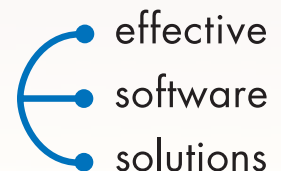**Minimal feature lag across all releases**

> And improving, through hard work by Lotus

New for Linux in 8.5.2 – Modular RSS Feed

> Choose to install or not, via a separate file
>
> Awesome new features across all clients
>
> Ubuntu 10.04 LTS officially supported (Nov 2010)

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Notes On Linux – Simplified Existence

Installs client in multi-user mode only

> **Places data in an intuitive location**
>
> **Allows for easy Domino roaming profile**

Separate files for each module: RPM/DEB

> **lotus_notes852_linux_RI_en.tar**
>
> **lotus_notes852_linuxUb_en.tar**

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Notes On Linux – Simplified Existence

Red Hat & SuSE	Ubuntu
ibm_lotus_activities-8.5.2.i586.rpm	ibm_lotus_activities-8.5.2.i586.deb
ibm_lotus_symphony-8.5.2.i586.rpm	ibm_lotus_symphony-8.5.2.i586.deb
ibm_lotus_cae-8.5.2.i586.rpm	ibm_lotus_cae-8.5.2.i586.deb
ibm_lotus_feedreader-8.5.2.i586.rpm	ibm_lotus_feedreader-8.5.2.i586.deb
pub_ibm_lotus_notes.gpg	
ibm_lotus_notes-8.5.2.i586.rpm	ibm_lotus_notes-8.5.2.i586.deb
ibm_lotus_sametime-8.5.2.i586.rpm	ibm_lotus_sametime-8.5.2.i586.deb

license.tar

smartupgrade.sh

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Lotus iNotes – Did You Know?

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Supports Firefox 3.x up to 3.6 in 8.5.2

Increased control through Policy docs
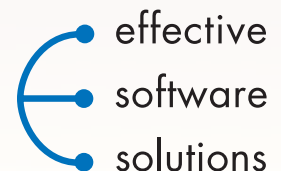
Works with ID Vault

Can force remote desktop data cleanse

> Important for regulated companies' users

That iNotes provides separate hot fixes independent of Domino server hot fixes

> **Each is tied to the Fix Pack**
>
> **Get rolled-up into the next Fix Pack**

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Lotus iNotes – Retrieving the Build

Click here -->   IBM. Lotus. iNotes.

And you'll see a lot of good info, including the iNotes build version

> (Fortunately, IBM is now combining the iNotes build with the respective Domino flavor in the filenames, for now)

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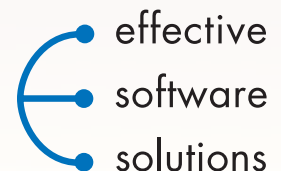
Lotus iNotes – What You See

IBM

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Lotus. iNotes.

IBM Lotus iNotes 8.5.2	**Build 401.3**	October 20, 2010

Database title:	William Malchisky ▬▬▬
Filename:	mail/▬▬▬ nsf
Server:	▬▬▬▬▬▬
Template:	StdR85Mail
Language:	English
Documents:	7901
Size:	709 MB
Quota size:	none
Warning threshold:	none

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Getting iNotes Patches

Visit Fix Central: http://www-933.ibm.com/support/fixcentral/

See if there are any iNotes patches, after every fix pack is applied

1. interim fix: dwahf_v8.5.1.4_304.8CHF1
   dwahf_v8.5.1.4_304.8CHF1

   More Information

For the server in previous slide, we are fine, as this fix is for 8.5.1 FP4, which runs a different iNotes build (304.8)

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Disk Partitioning

Benefits

- Better control of your environment
- Segmented data and binary access
- Backdoor to back filesystem
- Easier disk management

Areas of Caution
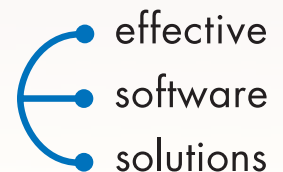
- Takes more time to setup
- Careful with system rebuilds
- Need a plan
- Factor in Growth

Demo

Simply put: every Sametime product and access point they have works well with Linux servers and desktops

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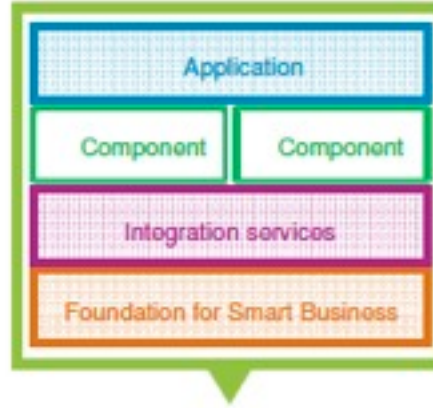
Spoke with the management team at Lotusphere 2011...
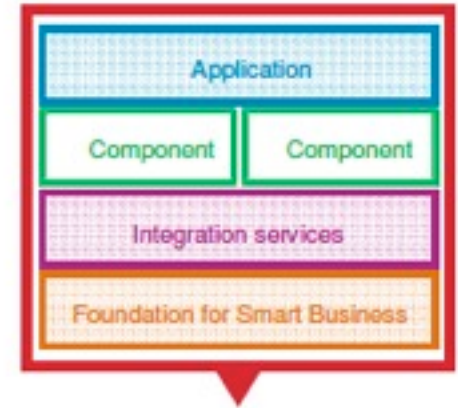
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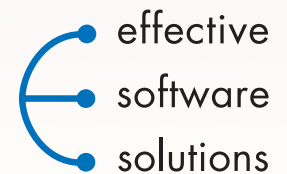
The New Foundations Offerings
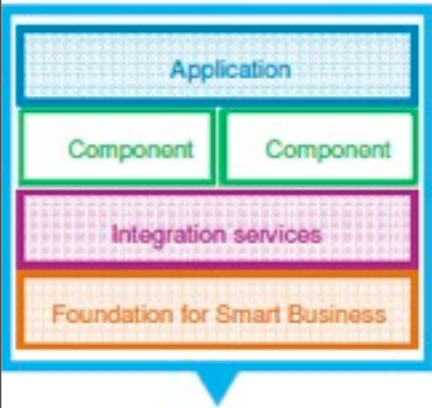
Software product

Solution, server and storage bundles

Hosted environment (Managed service provider)

Lotus Traveler – Drives Well with Penguins

Lotus ND8.5.2 – Traveler Linux build

Supports a multitude of devices

- Android (Beta is live)
- Apple iPhone/iPad/iPod
- Nokia Symbian & MS Windows Mobile devices

Unofficially supports

- Palm Pre
- Any phone supporting an EAS connection

Lotus Quickr 8.5:
Linux Ready – Finally!

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But what a different one release makes

> Version 8.5 runs on Domino Linux and Websphere Portal
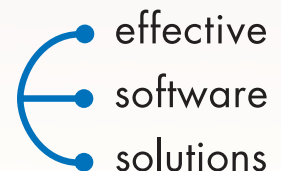
> Officially Supports SLES/SLED

>> Unofficially supports Red Hat

>>> Note: Websphere Portal Supports RHEL

Domino 8.5.1 Support

> Memory 4GB in production

Firefox 3.5+ with patches for access

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Lotus Quickr – Vital Fix Pack Data

**For the Domino 8.5.1, use FP3 with IF2**

    Technote: 1445648

    Required for Enterprise Content Management (ECM)

Addresses three key SPRs:

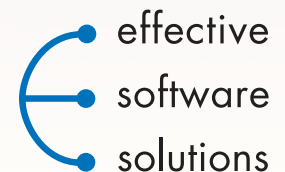   **DDUT832R22: proxy server mishandles cookies sent to the browser**

    DDUT832M9K: Socket read timeout after uploading large file through proxy

    FCDL7X492R: ECM Integration. Existing login fails to the ECM server with library connector as configured

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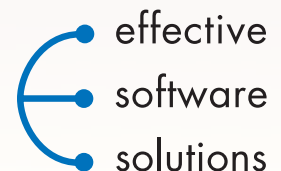
Review Tuesday's excellent session on Lotus Quickr on Linux by Jerald Mahurin of SNAPPS

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Lotus Symphony: It Plays Well For A Large Audience

Eclipse-based office productivity suite

- 90-95% of enterprise end-users can utilize
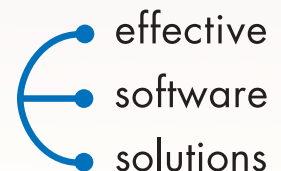- Runs stand-alone or Notes embedded
- Supports all Lotus Notes builds
- Ubuntu, RHEL, SLED package support

Canonical Announces Dedicated Support

- Enterprise support for $5.50/month/user (£3.41)
- http://tinyurl.com/2968ms7

Symphony 3: Enterprise Friendly

Provides significant enhancements

New sidebars to save editing time	Based on OpenOffice 3 codestream	Customizable toolbar
One-click PDF export icon	Nested tables support	File encryption and password protection with Word and Excel files
Microsoft Office 2007 OLE and VBA scripts support	Support VML images in OOXML files	New chart engine
ODF 1.2 standard support	Embedded audio/ video	LotusLive plugin – full cloud support Store and retrieve

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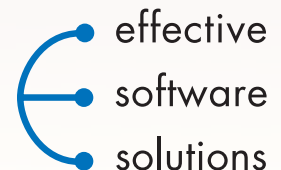
Linux Fixes Specific to Version 3
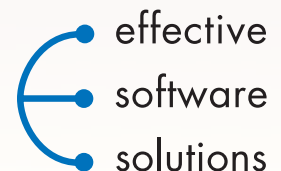
Key Usability Annoyance Addressed

> Floating windows in Lotus Symphony go behind main window when user moves cursor focus to main window

Pre-beta preference settings don't migrate

> $USER/.lotus/symphony
>
> > Backup and delete before upgrade

No multiple Symphony release installations

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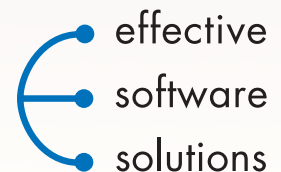solutions

Lotus Middleware on Linux

IBM offers 500 middleware products

    All Linux ready

    Across all six brands and five platforms

Source: IBM Middleware Available on Linux, Mar 2010 edition

    http://www.ibm.com/linux/matrix

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Linux Battles Microsoft In Mobile Market

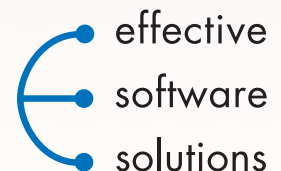**"Linux to eclipse Microsoft's 'all-in' tablet enthusiasm"
by 2015**

**Linux-powered non-smartphone mobile devices will
comprise 62% market**

> **Google's Android and Chrome OS will lead**
>
> **Followed by:**
>
> > **Intel and Nokia MeeGo joint effort**

"Windows just does not scale down"

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Value-added Resources

Virtual Desktops via VERDE & Virtual Bridges

   http://vbridges.com/wp/

   http://www.kalarisys.com

   http://midasnetworks.com/desktop.shtml

TCO Calculators

   ICSW on Ubuntu (on premise, on cloud, with appliance):

   http://www.compariv.com/icsw

   ICSW on Red Hat:

   http://compariv.com/lotuslonredhat

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Resources – IBM Linux Relevant

IBM's Open source project list

> http://tinyurl.com/2b9nsx

IBM's Linux Site

> http://www.ibm.com/linux

IBM's LTC public bloggers' assemblage

> http://www.planet-ltc.org/

IBM Client for Smart Work

> http://www.ibm.com/lotus/openclient

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Value-added Resources

Project Liberate
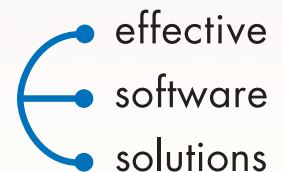
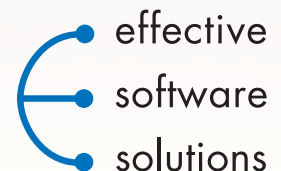   **http://www.ibm.com/software/info/liberate**

   http://blogs.forrester.com/duncan_jones/09-02-25-should_i_renew_my_microsoft_enterprise_agreement

   "Should I renew my Microsoft enterprise agreement?"

Turning Data into Insight with IBM and Linux Webcast

http://tinyurl.com/255yz2h

Smarter collaboration Cost Reduction Strategy Podcast

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Resources – Community Focused

IBM Linux Twitter accounts
http://www.twitter.com/linux_at_ibm

http://www.twitter.com/developerworks/

IBM's Smart Work Initiative, Taking Notes Podcast

http://tinyurl.com/yeue5k2

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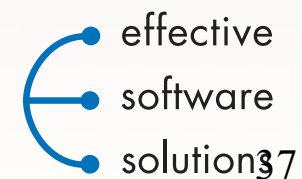
THANK YOU!

Any Questions?

SkiLUG
Is Almost Here!

25-27 Feb
Sunday River Resort
Join us!
http://SkiLUG.org

Bill Malchisky Jr.

How to contact me:

- **E-mail:** bill@billmal.com
- **Skype:** fairtaxbill
- **Twitter:** billmalchisky

- **My Website: http://www.effectivesoftware.com**
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