

**ORACLE®**

## **Oracle Enterprise Linux**

Fred Louis

Principal Solution Architect

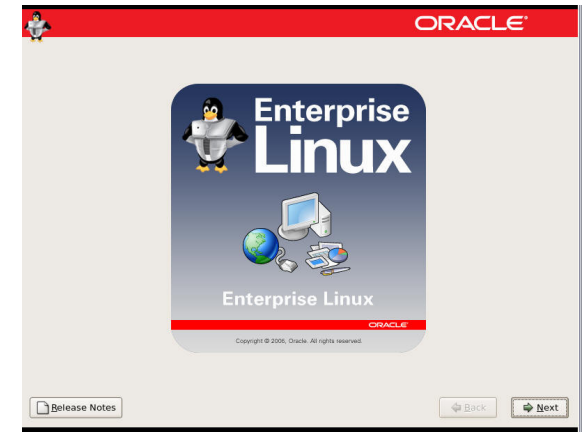
October 17<sup>th</sup>, 2007



# Agenda

- **Installing Oracle Enterprise Linux**
- Oracle Unbreakable Linux Support
- Oracle's Commitment to Linux
- Customer and Partner Momentum
- Commonly Asked Questions
- Q&A

# Installing Oracle Enterprise Linux



- Download Media (5 ISO files)
  - <http://edelivery.oracle.com/linux>
- Startup with Bootable CD (Disk 1)
- Choose “Customize Now” during Install
  - All Defaults PLUS:
    - Development Libraries
    - Development Tools
    - Servers – Server Configuration Tools
    - Base – System Tools

# Post- Install Steps



- Logon as “root”
- Follow Steps found at:  
<http://www.oracle-base.com/articles/11g/OracleDB11gR1InstallationOnEnterpriseLinux4and5.php>
- Modify “/etc/hosts” file
- Set kernel parameters
- Add four additional rpms
  - Libstdc++, libaio-devel, unixODBC, unixODBC-devel
- Create Groups, oracle user, directories, and set permissions
- Modify oracle “.bash\_profile”

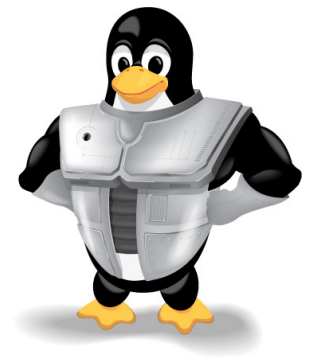


# Agenda

- **Oracle Unbreakable Linux Support**
- Oracle's Commitment to Linux
- Customer and Partner Momentum
- Commonly Asked Questions
- Q&A

# Oracle Unbreakable Linux Support

- Support for the Linux Operating System
- Available to any customer; not just Oracle users
- Dedicated development, test, and delivery teams
- Backed by world's largest software support team
- 24x7 in 145 countries and 27 languages
- Enterprise-Quality Support
- Lower cost of support



ORACLE®



# Oracle Unbreakable Linux Support

- Open source software; not a new Linux distribution
- Terminology
  - Enterprise Linux = Software
  - Unbreakable Linux = Support Program
- Tracks Red Hat product releases
- Freely available source and binaries
- x86 and x86-64 (AMD and Intel) architectures

**Making Linux Better**

ORACLE®



# Oracle is the Support Innovation Leader

	Red Hat	Oracle
Global Reach	Limited	<b>Yes; 24x7 in 145 countries</b>
JD Power Certification	No	<b>Yes</b>
SSPA Awards	No	<b>Yes; 4 consecutive years</b>
200+ Advanced Support Tools	No	<b>Yes</b>
Centralized View of Server, OS and Oracle environment	No	<b>Yes</b>
Local Language Support	Limited	<b>Global (27 languages)</b>
Support Professional Skills	Trained on Linux	<ul style="list-style-type: none"> <li>• <b>Trained on the complete software stack</b></li> <li>• <b>Oracle products support staff is trained on Linux</b></li> <li>• <b>Linux support staff is trained on Oracle products</b></li> </ul>
Support Professionals	~ 200 (covers both desktop and server)	<b>7000+ (server focused)</b>

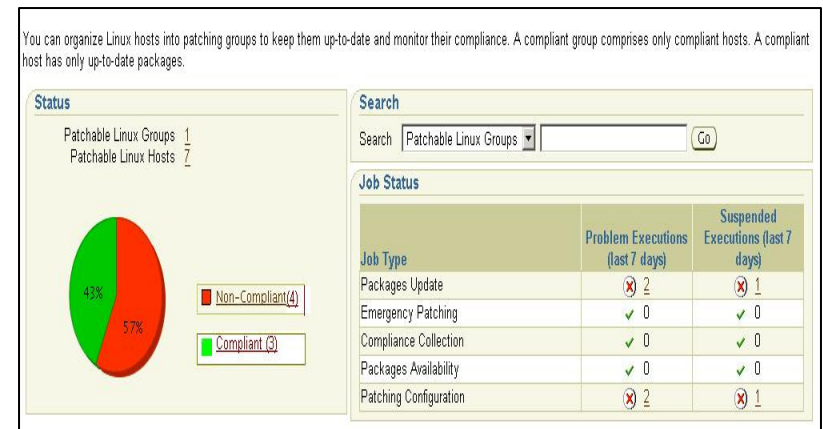


# More Value to Unbreakable Linux Users

- Oracle Management Pack for Linux  
Complete Linux server lifecycle management solution  
**Free** with Unbreakable Linux support (Basic, Premier)

Includes:

- Provisioning
- Patching
- Monitoring
- Administration
- Configuration Management
- Oracle Cluster File System 2
  - Support included for any usage





# Comprehensive Indemnification

- Indemnification for intellectual property claims raised against our customers
- Available to **all** Oracle-supported customers
  - Network, Basic and Premier
- Includes damages, liabilities, costs and expenses awarded by courts
  - **Not** limited to the amount of money paid by the customer

**Deploy Linux with Confidence**



# Benefits: Oracle Unbreakable Linux

- **Enterprise-quality support for Linux**
  - 24x7 Global support organization: 145 countries, 27 languages
  - Access to skilled Linux engineers who understand the full stack
  - Premier Backports: No pressure/forced upgrades to latest “Update” release
- **Complete support for the complete software stack**
  - Seamless interoperability with database, middleware, applications
  - No finger pointing; consolidated, integrated support
- **Full-featured management framework at no charge**
  - Oracle Management Pack for Linux delivers complete Linux server lifecycle management
- **Comprehensive legal indemnification**
  - Deploy Linux with confidence
- **Lower total cost of support**
  - Consolidate support contracts; lower total cost



# Support Levels

- Network Support
  - Access to Unbreakable Linux Network software and updates
- Basic Support
  - Software and updates
  - Management Pack for Linux
  - Log service requests via Web or phone, 24x7
- Premier Support
  - Software and updates
  - Management Pack for Linux
  - Log service requests via Web or phone, 24x7
  - Premier Backports of fixes to currently supported software versions
  - Lifetime support

**Equal to Red Hat's  
Best Support**

**Equal to Oracle's  
Database Support**



# Pricing

	<b>Oracle</b>	<b>Red Hat</b>
Installable Binaries	FREE	Fee Based
Network Access (Patches and Updates)	\$99	\$349
Basic Limited (better than RHEL ES Support; 2 or less CPUs)	\$399	\$799 (limited features, limited hours)
Basic (equivalent to RHEL AS Premium Support; More than 2 CPUs)	\$999	\$2,499
Premier Limited 2 or less CPUs	\$1,199	No equivalent support
Premier (More than 2 CPUs)	\$1,999	No equivalent support

# Unbreakable Linux Network (ULN)

- [linux.oracle.com](http://linux.oracle.com)
- Updates, bug fixes, and security fixes
- Access via up2date and Web browser
- Errata mailing list
- Search packages
- Download packages
  - Binary and source
- Manage channel subscriptions
- See how current your registered servers are





# Switching to Unbreakable Linux Support

- Switch to Oracle Linux support in just minutes
  - Purchase support
  - Download Oracle's up2date – [linux.oracle.com](http://linux.oracle.com)
  - Run 'up2date –register' to create an account using your CSI number for Linux support
  - System will be registered with the Unbreakable Linux Network. up2date will now download updates built by Oracle.



# Agenda

- Oracle Unbreakable Linux Support
- **Oracle's Commitment to Linux**
- Customer and Partner Momentum
- Commonly Asked Questions
- Q&A





# Oracle's Investment in Linux

- 1998** Oracle first commercial database on Linux
  - Other ISV's then began porting their applications to Linux
- 1999** Investments in multiple Linux startups
  - Red Hat, Miracle Linux, VA Linux
- 2002** Contributes cluster file system to Linux
  - Key enabling technology for high-performance Linux grids
- Unbreakable Linux program**
  - Oracle commits to fix Priority 1 Linux Bugs
  - Oracle gives Free Linux patches to customers and vendors
- 2004** Oracle sponsors Linux security certification
  - Linux gets certified by government for use in secure systems
- 2006** Offers full support for the Linux operating system
  - Ongoing technical contributions to Linux



# Oracle's Linux Contributions

- Dedicated Linux development team
- Our code is accepted into mainline kernel
- Oracle Cluster File System 2
- Significant focus on real-world testing
- The Linux Foundation board member
- Licensee of Open Invention Network (OIN)

**Committed to working with the Linux Community**



# Technical Roadmap: Enhancing Linux for Mission Critical Use

- Asynchronous I/O
- Containers
- File systems
- Kernel crash dumps
- Memory fragmentation avoidance
- Multipathing
- Real Time
- Scheduler Improvements
- Server Power Management
- Storage validation
- Tracing
- Virtualization



# Recent Open Source Contributions

- **Btrfs** – New file system which will provide enhanced scalability and simplified management for large storage configurations
- **T10** – A first-of-its kind initiative for Linux that will bring enterprise-class data integrity (the T10 standard) to the Linux platform.
- **Asynchronous I/O** – A new asynch I/O interface to reduce complexity
- **YaST** – Ported popular YaST (Yet another Setup Tool) to Oracle Enterprise Linux and Red Hat Enterprise Linux

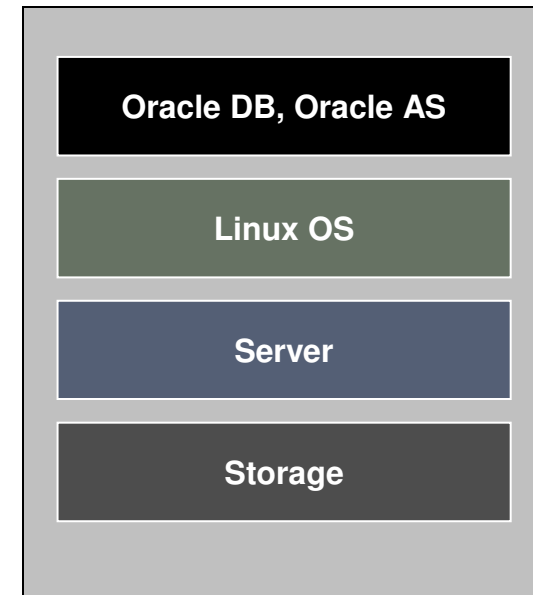
More community contributions & details [oss.oracle.com](http://oss.oracle.com)

# Testing: Oracle Validated Configurations

Pre-tested, validated, and supported architectures, including

- Software, hardware, storage, networking components
- Best practices for deployment
- ‘Real world’ testing of complete stack
- More than 30 configurations published

[oracle.com/technology/tech/linux](http://oracle.com/technology/tech/linux)



**Oracle Validated Configurations offer faster Linux deployments while lowering infrastructure costs**

ORACLE®



# Oracle Linux Test Kit

- Derived from Oracle Validated Configuration Program
- Released as open source under the GPL and Artistic licenses
- Widely used by server and storage vendors
- Used to verify Linux kernel functionality and stability essential for the Oracle Database
- Available at [oss.oracle.com](http://oss.oracle.com)



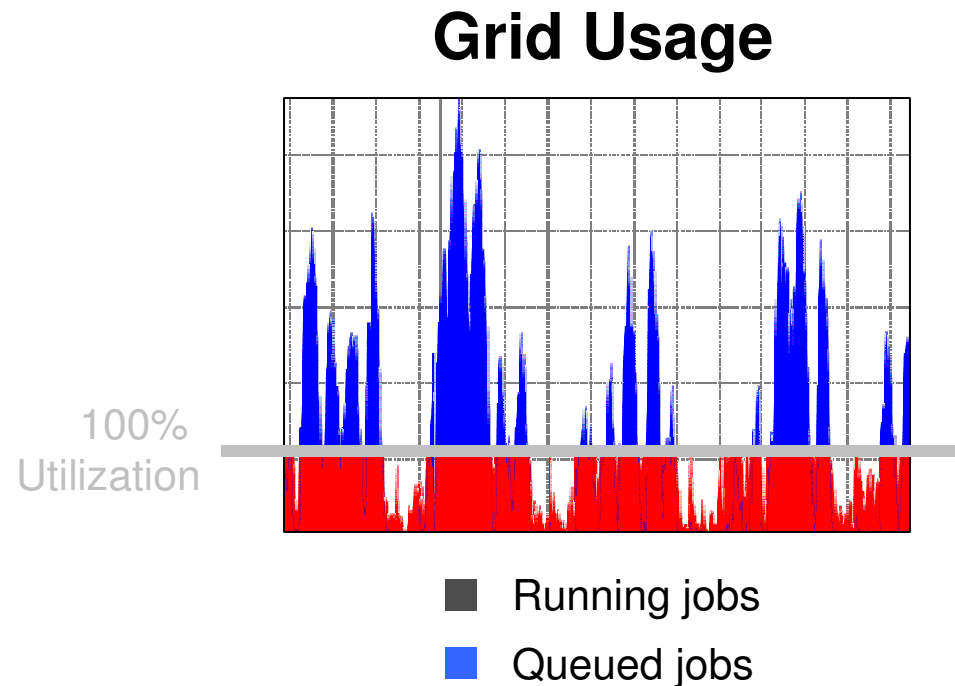
# Internal Use at Oracle

- Oracle Enterprise Linux is the base development platform
  - More than 9,000 developers use Linux
- Key internal systems run on Linux
  - More than 10,000 servers run Linux
  - Oracle.com
  - Oracle Files Online
  - Oracle demo systems
  - Oracle financial systems
  - Oracle development organization
  - Oracle On Demand

# Oracle Database Development Runs on a Linux Grid

All automated testing jobs run on “The Farm”

- 1000 dual CPU machines
- 75% running Linux
- 2000 jobs run simultaneously
- 860 users
- More than 3 million test suites run
- Higher quality testing



ORACLE®



# Oracle On Demand Data Center Runs Oracle Enterprise Linux



- Million+ users
- 10,000 servers
- 3.5 Petabytes storage
- 64-bit Linux



# Agenda

- Oracle Unbreakable Linux Support
- Oracle's Commitment to Linux
- **Customer and Partner Momentum**
- Commonly Asked Questions
- Q&A



# Market Leadership

- #1 Database with 82.6% market share (Gartner)
- More than \$1.95 Billion in Linux RDBMS revenues (Gartner)
- More than 30% of Oracle E-Business Suite 11i applications ship on Linux platform
- More than 50% of recent middleware shipments on the Linux platform



# Unbreakable Linux Customer Momentum

- Large-scale adoption of Oracle Unbreakable Linux Support in many major industries and all sizes:
  - **Major Industries**  
Financial Services, Banking, Manufacturing, Healthcare, Communications, Retail, Technology. Education and other industries
  - **All Sizes**  
Organizations of all sizes, from SMB customers to large multinational corporations
  - **Worldwide**  
Customers located throughout all regions worldwide—North America, EMEA, APAC, Japan



# Customer Examples

Just a few of the many...

- Activision
- Yahoo!
- Diebold
- IHOP
- GlobeCast (France Telecom)
- Timex
- Stanford University
- Amerigroup Corporation
- Mutual Materials
- Replacements Ltd.
- Hays Medical Center
- Magellan Health Services
- Fulcrum Analytics
- The Cobalt Group
- Stuart Maue
- PGA of America
- Powell Industries
- New York State Insurance Department
- Deseret Power
- Stemilt Growers
- The Gem Group
- Vcommerce



# Partner Endorsements

The image displays a grid of logos for various partner companies. The logos are arranged in four rows and four columns. The first row includes DELL, intel, hp invent, and IBM. The second row includes accenture, AMD, BearingPoint, and EMC². The third row includes NetApp, Autodesk, bmcsoftware, and INGRAM MICRO. The fourth row includes KRONOS, MERCURY, sterling commerce, and Tech Data.



ORACLE®



# Agenda

- Oracle Unbreakable Linux Support
- Oracle's Commitment to Linux
- Customer and Partner Momentum
- **Commonly Asked Questions**
- Q&A



# Why Is Oracle Providing Linux Support?

- Customers are demanding enterprise-quality support
  - No pressure to update to the latest Update release
  - Timely, well tested bug fixes
- Linux is strategic to Oracle and its customers
  - We sell a lot of our software running on Linux
  - Linux provides an open standards alternative
- Oracle understands enterprise support
  - More than 30 years supporting enterprise customers
  - Lower total cost through efficiency of scale



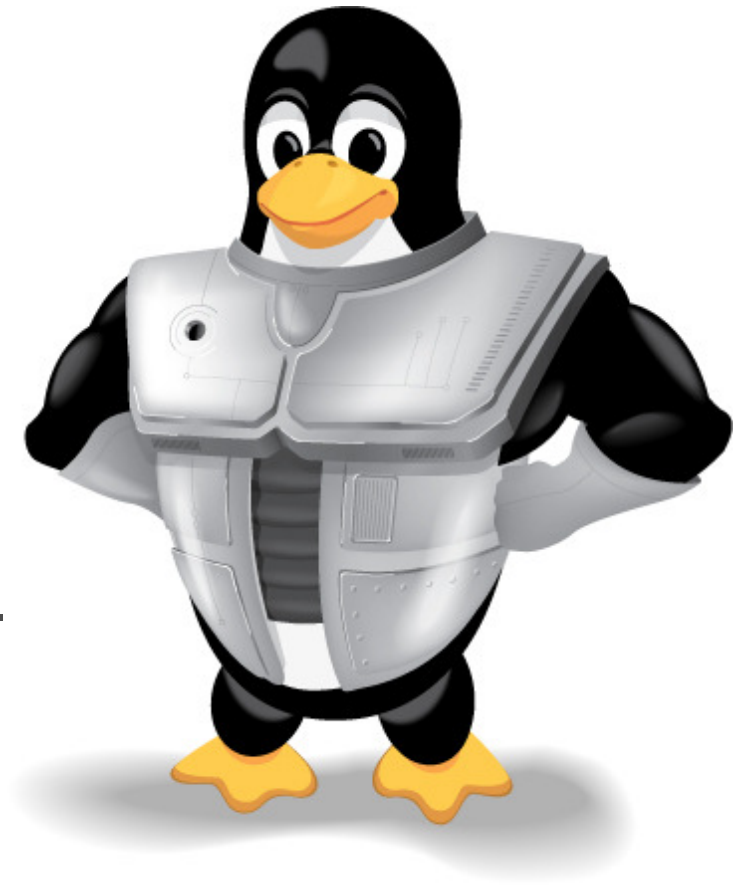


# Addressing Questions

- Highest code quality
  - Same code base as Red Hat; fully compatible (source & binary)
  - Significant additional higher quality testing
- Not forking Linux
  - Fully committed to maintaining compatibility with RHEL
  - Compete on superior support & benefits, not product differentiation
  - Contribute product enhancements to upstream developer communities
- Partner ecosystem is growing
  - Infrastructure vendors on board
  - Engaged with major ISVs
    - No re-certification necessary
    - Partner announcements ongoing

## Additional Resources

- **Oracle.com Linux Page**  
[oracle.com/linux](http://oracle.com/linux)
- **Free Download:**  
**Oracle Enterprise Linux**  
[edelivery.oracle.com/linux](http://edelivery.oracle.com/linux)



*Q&A*

**ORACLE®**