Radically Simple Backup and Restore

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The Problem

What’s wrong with backup today?

• Expensive legacy business model
• Difficult installation
• Complex servers, agents and consoles
• Lack of flexibility
• Proprietary data formats
• Security policies
• Vendor lock-in
The Solution

**Amanda Enterprise: Commercial-grade, easy flexible, and robust**

- Easy and Secure
- Cross-platform support
- Intelligent Scheduling
- Reporting
- Monitoring
- Support for multiple media types
- Open Source with no proprietary data formats
Radically Simple…

Easy as “What”, “Where”, “When” and “How”

• *What* to back up
• *Where* to back it up to
• *When* should it be backed-up
• *How* should it be backed-up

*Activate!*
The Secret…Killer UI!

- Web-based
- Integrated online help
- No console software
- Available anywhere
Available Anywhere…

…even on an iPhone
Cross-Platform Support

Support for heterogeneous environments...

Server
- Linux
- Solaris

Client
- Windows
- Linux
- Solaris
- Applications
Scalable and Flexible

- Client-Server architecture
- Holding disks
- Multiple media types
- Multiple backup streams
- Pluggable encryption and compression
Intelligent Scheduling

Let Amanda do the work…

- Automatically optimized schedule
- Specify a few key parameters
- Efficient data distribution
- Optimized and normalized backup windows
Backup window will be different for each backup run and there will be spikes in resource utilization during full backups.
Amanda Enterprise Scheduling

Backup window and resource utilization are consistent for each backup run

Utilization is normalized!
Monitoring

*Watch backups as they run...*

- Live view of backup progress
- Data path visualization
- Backup run status on mouse-over
- Stored in report history
Backup report status and history…

- At-a-glance view of backup history
- Visual indicators of success, failure, or warning
- Interactive calendar
- Reports available online and delivered via email
- RSS?
Zmanda Internet Backup

• Utilizes Amazon S3 to provide scalable, reliable, fast, and inexpensive data storage
• Uses strong authentication to ensure that data is kept secure
• Data cached on Amanda Backup Server
Amazon Web Services Are...

Building block services that allow developers and IT to innovate

- **Infrastructure As a Service**
  - Amazon Simple Storage Service
  - Amazon Elastic Compute Cloud
  - Amazon Simple Queue Service
  - Amazon SimpleDB

- **Payments As a Service**
  - Amazon Flexible Payments Service

- **People As a Service**
  - Amazon Mechanical Turk

- **Alexa Web Services**
  - Alexa Web Information Service
  - Alexa Top Sites
  - Alexa Site Thumbnail
  - Alexa Web Search Platform
Amazon Simple Storage Service
(Amazon S3 for Zmanda Internet Backup)

- Highly scalable data storage in-the-cloud
- Programmatic access via web services API
- Simple to get going, simple to use
- Highly available and durable

Pay-as-you-go:
- Storage: $0.20 / GB / month
- Data Transfer: starts at $0.20 / GB
- Requests: no charge
Billions of Objects Stored

- August 06: 800 Million
- April 07: 5 Billion
- October 07: 10 Billion
- January 08: 14 Billion
Why backup to SaaS?

• Ideal for offsite
  • Tapes can get lost or damaged
  • Offsite media can take too long to recover
  • Physical offsite storage requires long-term contract commitment

• Unparalleled access
  • Available from anywhere at any time
  • Secured with strong encryption

“We think users should seriously consider adopting such hybrid approaches to provide layered, efficient data protection.”
(Illuminata, Feb. 2008)
“Hybrid” Backup

Backup your data your way...

- Backup locally frequently and occasionally to S3
- Backup to local disk and S3 at the same time every time
How does it stack up? (Re-Do)

- Amazon S3 complements backup to local disk or tape
- Windows, Linux, Solaris, MacOS X and MS Exchange, MS SQL, MySQL
- You decide for how long you keep your backups, e.g. 6 months
- 20 cents per GB per month

- Online service is the only target for backup
- Windows only
- Backups kept only 30-60 days
- $3.95 per month per system and 50 cents per GB per month OR MORE!
How does it stack up?

Other Online Backup Services

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Zmanda Internet Backup

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Open Source

All Open Source benefits apply to backup...

- Freedom and flexibility
- High quality code through peer review
- Standard format and protocols
- Low cost
- Knowledgeable and resourceful community
- Secure

"It is clear that there is both a highly skilled and passionate community committed to the long term quality of Amanda network backup software..."

Ben Chelf, CTO of Coverity
The Bottom Line…

Backup and restore with confidence...

- Simple installation
- Web-based interface
- Highly flexible and configurable
- Modern and modular security
- Subscription pricing model
- Open media and device formats
- **ABSOLUTELY NO** vendor lock-in
More information available at:
http://www.zmanda.com/eseminar