Zmanda Database & Application Agents
Open Source Backup and Recovery

Protect MS SQL Server, Exchange Server and Oracle databases without incurring high costs or impacting users and applications

> **"IT managers benefit by reducing their IT costs with subscription fees that are up to 80 percent lower than major competitive products."**

As companies become highly dependent upon their data to run their business, protecting vital email and databases is absolutely crucial. While the amount of data and types of databases and applications continues to expand, database administrators are faced with complex backup operations and shrinking backup windows. Many organizations simply do not have the staff to manage backup and recovery operations for a variety of applications and databases, nor the budget to purchase expensive data protection software.

Zmanda database & application agents provide reliable online backup and recovery for Microsoft SQL Server and Oracle databases, as well as Microsoft Exchange data. Database administrators benefit from fast implementation, enterprise-class functions, centralized management, standard formats, and responsive technical support. Users benefit by being able to continue to access their data during backup operations. And, IT managers benefit by reducing their IT costs with subscription fees that are up to 80 percent lower than major competitive products.

Zmanda database & application agents only use industry standard data formats. Whereas, all other commercial backup products employ their own proprietary backup formats that lock you in by requiring any backup data to be restored using their software. With data protected by Amanda Enterprise and its agents, you always have the option to recover your data using standard operating system tools and utilities.

Key Benefits

- Enhances administrator productivity with centralized management for database and application backup and recovery

- Protects applications and databases without disrupting user access

- Provides standard data formats that eliminate vendor lock-in

- Reduces IT costs with low subscription fees

More businesses use Microsoft Exchange Server for email based collaboration than any other product. As email has become a mission-critical application for most businesses today, it is important to have a backup and recovery solution that protects your enterprise email from accidental loss, meets regulatory requirements for archival and retrieval, and scales to meet your increasing email database growth. Zmanda MS Exchange Agent provides the comprehensive data protection your business needs for all your Exchange databases.
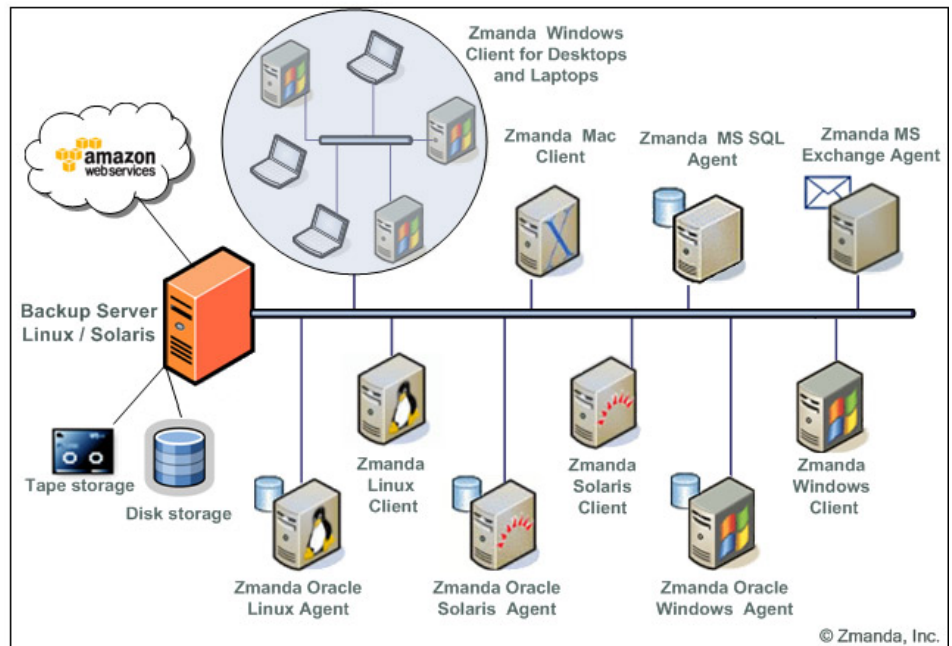
Zmanda MS Exchange Agent

As employees check their email round-the-clock, administrators must be able to backup the data without taking the Exchange server offline. To provide hot backups without disrupting Exchange users, the Zmanda MS Exchange Agent takes advantage of Microsoft's Volume Shadow Copy Service (VSS) and the fact that Exchange Server is a VSS-aware application. When a client starts a

backup, VSS coordinates communication between the Zmanda Client requestor, the Exchange writer, and VSS providers that create the shadow copies (snapshots) of Exchange.

Zmanda Oracle Database Agents

Many enterprises today use Oracle databases to run their business operations. Some have Oracle databases on Windows servers, some on Linux, some on Solaris servers, and many have Oracle databases on multiple platforms. In any case, a reliable and efficient method for backup and recovery is crucial to protect these relational databases that are often used for business-critical applications, such as Enterprise Resource Planning (ERP).

The Zmanda Agents for Oracle Databases simplify backup and recovery of Oracle data. You can do a full backup of your entire Oracle database. Or, you can choose to do an incremental backup that only backs up data that is new or changed since the prior backup, saving you time

and storage space. In either case, the Zmanda agent uses Oracle's preferred mode to back up a given operating system: VSS for Oracle on Windows and Oracle Recovery Manager (RMAN) for Oracle on Linux and Solaris.

Zmanda Oracle Agents allow administrators to perform backup operations at any time, while users and applications continue to access Oracle databases. For Oracle on Windows, the Zmanda Oracle Windows Agent utilizes VSS to ensure reliability during hot backups in the same manner as described above for MS Exchange. Whereas, for Oracle databases on Linux and Solaris, RMAN works intimately with the server, providing block-level corruption detection during backup and restore. RMAN also optimizes performance and space consumption during backup with file multiplexing and backup-set compression.

Zmanda MS SQL Server Agent
As the number of Microsoft SQL Server databases continues to grow, database administrators need a fast, robust, and economical backup and recovery solution to guarantee the availability of this important data. Zmanda MS SQL Agent provides the reliable and cost-effective data protection your business needs for all your Microsoft SQL databases.

Central administration, an intelligent job scheduler, and effective media management result in fully automated database backups. Database administrators can automate backup processes and data retention policies and increase their productivity, while IT managers can reduce their storage management costs.

The Zmanda MS SQL Agent uses Microsoft's native VSS for backup operations, allowing hot backups without disrupting SQL Server

database access (in the same manner as described above for MS Exchange). Standard encryption algorithms and compression utilities are supported on the client and the server. And, administrators have the flexibility to perform full or incremental backups.

A Complete Backup & Recovery Solution
Amanda Enterprise provides a cost-effective data protection solution for your entire computer network. Amanda Enterprise backup server is installed on either a Linux or Solaris server, and Zmanda clients and agents are installed on all file, database, email and application servers, workstations and desktops to facilitate backups to the backup server.

All Zmanda clients and agents interface seamlessly with the Zmanda Management Console, enabling administrators to use one intuitive, point-and-click interface to backup multiple Linux, Solaris, Windows,

Zmanda Agents for Databases and Applications – Features-at-a-Glance

Features	Zmanda MS Exchange Agent	Zmanda MS SQL Agent	Zmanda Oracle Windows Agent	Zmanda Oracle Linux Agent	Zmanda Oracle Solaris Agent
Non-disruptive online backup	✔	✔	✔	✔	✔
Central management console	✔	✔	✔	✔	✔
Backup levels	Full and incremental	Full and incremental	Full and incremental	Full and incremental	Full and incremental
Uses standard format for backup data	Zip	Zip	Zip	GNU tar	GNU tar
Uses application's native backup tools	VSS	VSS	VSS	RMAN	RMAN
Intelligent scheduler	✔	✔	✔	✔	✔
Encryption	✔	✔	✔	✔	✔
Compression	✔	✔	✔	✔	✔
Supported releases	2007, 2003	2005, 2000	Oracle 11g	Oracle 10&11	Oracle 10&11

and Mac OS X systems – as well Exchange Server, SQL Server, and Oracle databases. You can choose to store your backup files and databases on tape, disk, online storage, or optical storage devices. You even have the option to store your data off site using Amazon's Simple Storage Service (Amazon S3).

The backup server can scale to accommodate backup of files and databases on hundreds of desktops, workstations, servers. A unique approach to scheduling automatically optimizes load balancing to enhance administrator productivity and achieve consistent backup windows. Industry standard encryption and compression tools are used to secure and store data.

Technical Support
With your annual subscriptions for Amanda Enterprise, its clients and agents, you receive technical support and software enhancements. Subscriptions for Zmanda

database and application agents also include three hours of onsite support during which Zmanda backup and support experts implement the software in your environment. Zmanda's professional services team is also available to help you design and implement the optimal backup and recovery solution for your heterogeneous environment. Services include training, legacy backup migration, storage and network capacity planning, and backup performance optimization.

Your company is no longer forced to choose between complex, expensive backup and recovery products or writing your own custom scripts. You no longer have to settle for a solution that uses proprietary data formats – locking you into the vendor in order to recover your data. Amanda Enterprise, its clients and agents provide open source, enterprise-class data protection for your databases, application data, and entire systems – at less than a third of the cost of competitive products.

You can choose from two levels of support: Standard or Premium.

Professional Services
Zmanda's team of backup and recovery experts are available to help you design and implement a solution for backup and recovery, storage and network capacity planning (for backup purposes), legacy backup migration, backup performance optimization, or disaster recovery. They can also provide training.

Take the Next Step
To learn more about the Amanda Enterprise solution, including how you can protect your SQL Server and Oracle databases and Microsoft Exchange application data, go to www.zmanda. com, or contact a Zmanda representative at zsales@zmanda.com or (888) 496-2632.

Support: You can choose from two levels of support - Standard or Premium

Enterprise Subscription	Standard	Premium
Software		
Certified software	✔	✔
Security & Functionality updates	✔	✔
Product Support		
Product alerts & Knowledge base access	✔	✔
Number of supported cases	Unlimited	Unlimited
Phone support	✔	24 x 7
Number of authorized contacts	1-5	Unlimited
Initial response time	Within 8 hours	Within 3 hours