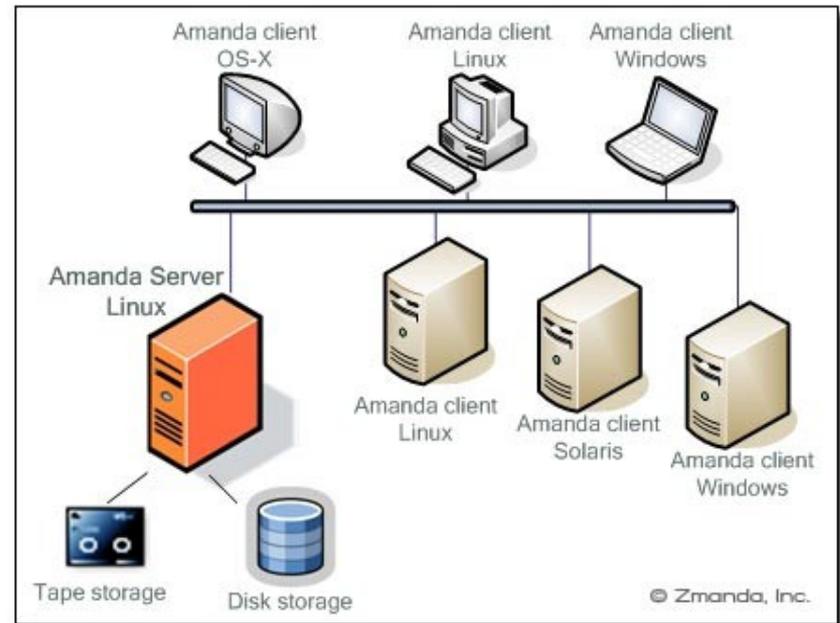**zmanda**
Open Source Backup

Open Source Backup with Amanda

Bay Area Linux Users Group (Oct 2007)

Paddy Sreenivasan
paddy@zmanda.com

Amanda network backup and recovery

- Easy to use

- Open source and no proprietary data formats

- Scalable and heterogeneous

- Designed for backup to disk, tape and optical devices

- Secure

Amanda community releases

- Active developer and user community
- Open source (Amanda license similar to BSD license)
- Part of most Linux distributions and Solaris
- Compatible releases at regular intervals
- Latest release 2.5.2p1
- More recent builds and Linux packages for released versions available at http://www.zmanda.com/download-amanda.php
- Amanda documentation is available in http://wiki.zmanda.com/
- Amanda questions? http://forums.zmanda.com/

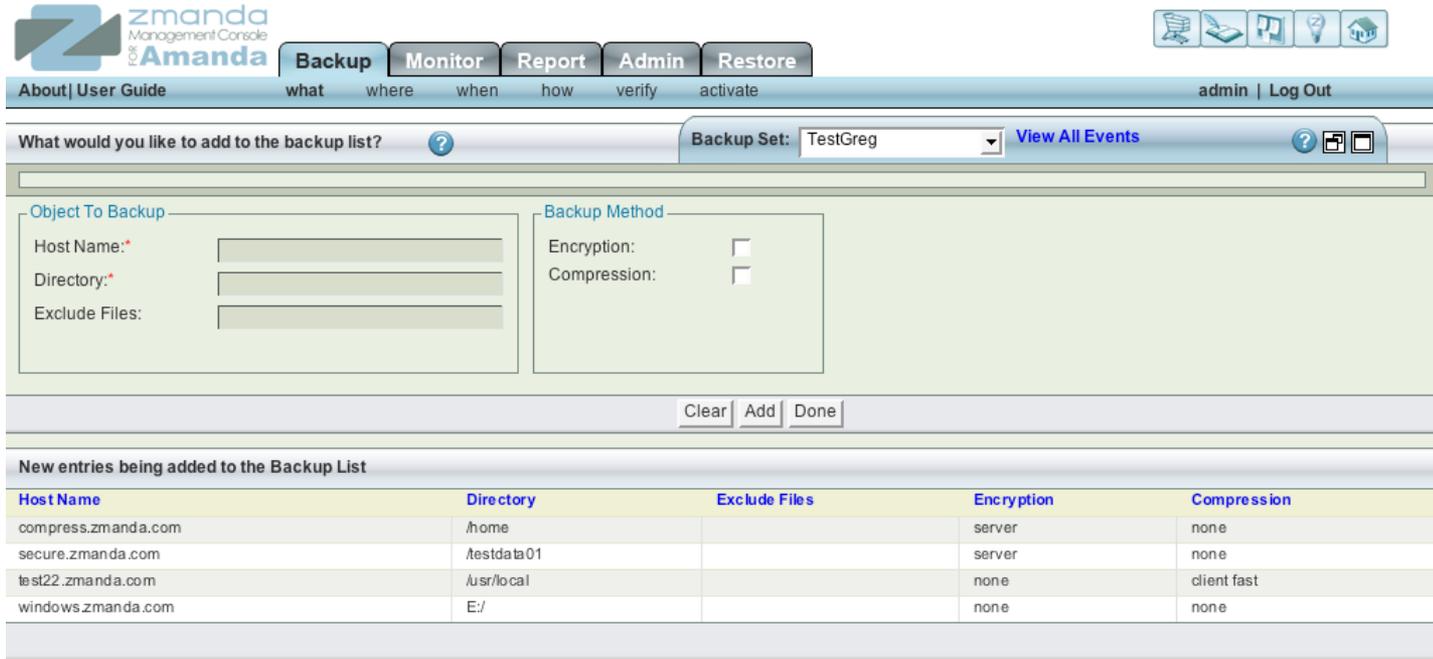# Amanda work in progress

- Device API
    - Abstraction layer for backup device communication
    - Plugins for Tape, Disks, RAIT, Amazon S3
    - Part of next release
- Application API
    - Abstraction layer for application backups
    - All current backup programs (GNU tar, dump) will be supported as plugins
    - Under development
- Transfer architecture (Parallel data transfer)
- Concurrency and Messaging improvements
- Use of XML in protocol and messaging

Amanda Enterprise simplifies SysAdmin life
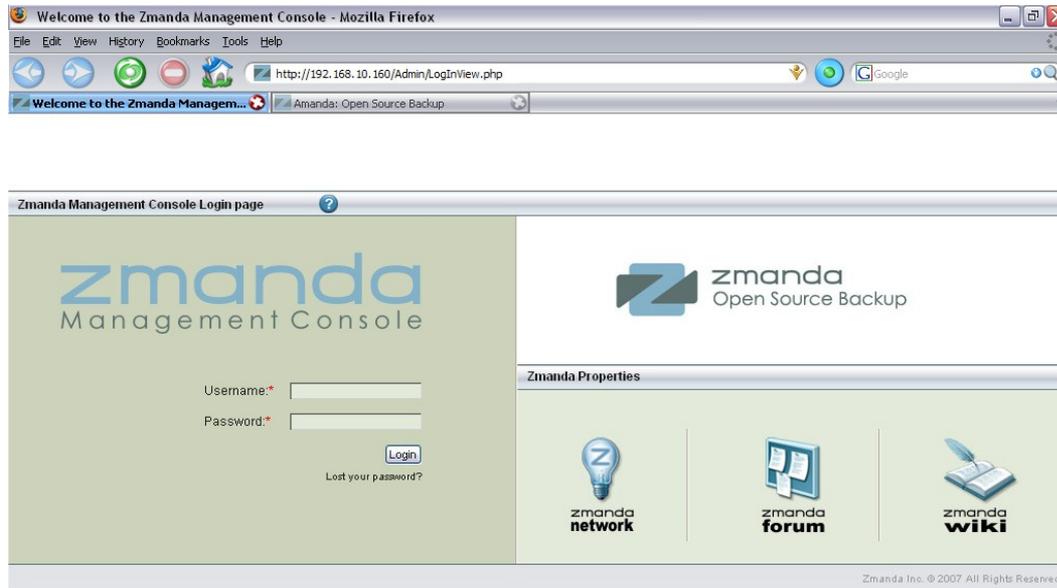
- Zmanda Management Console
  – a web based service integrated with Zmanda network
  – management and visualization tools for all Amanda tasks
- Rapid Installer

ZMC design is based on web technologies

- Object oriented PHP 5 with MySQL on the backend
- AJAX with Yahoo Java script libraries

Web service with hyperlinks to knowledge objects

Amanda enterprise 2.6.2 release

- Introducing the New Amanda Windows Client
  - Full support for Windows file systems
  - Back up and restore all file attributes
  - Back up open files
  - No need for external tools (SAMBA or Cygwin)
- Zmanda client for Microsoft Exchange
- Security Enhancements
  - Role based access to configuration changes
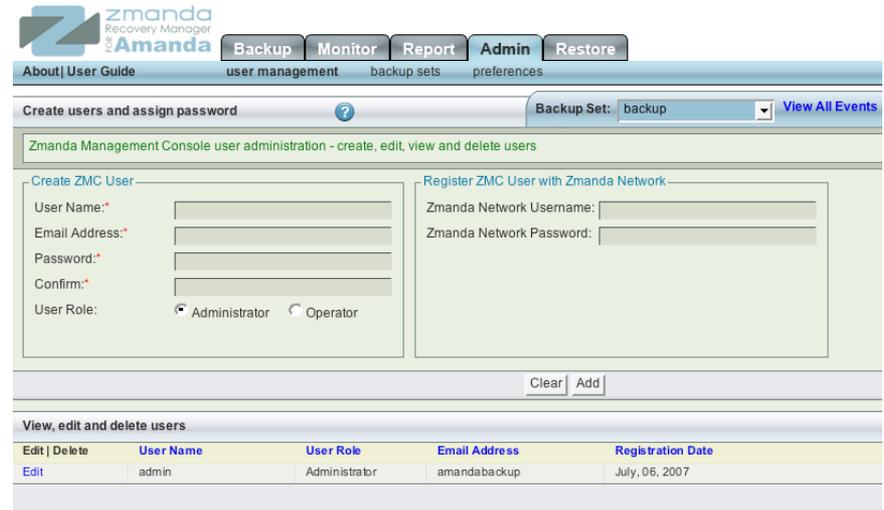 - Support for SE Linux
  - HTTPS support

Windows Client

- Uses and extends the existing Amanda architecture
  - Send backup to Amanda server in the usual way
  - Native Windows format (PKZIP)
  - Ability to restore without Amanda tools

- Provides full support for NTFS (and FAT32)
  - ACLs
  - Extended attributes
  - Open files via VSS

- Ease of installation
  - Typical "setup.msi" installation

- Ease of Restore
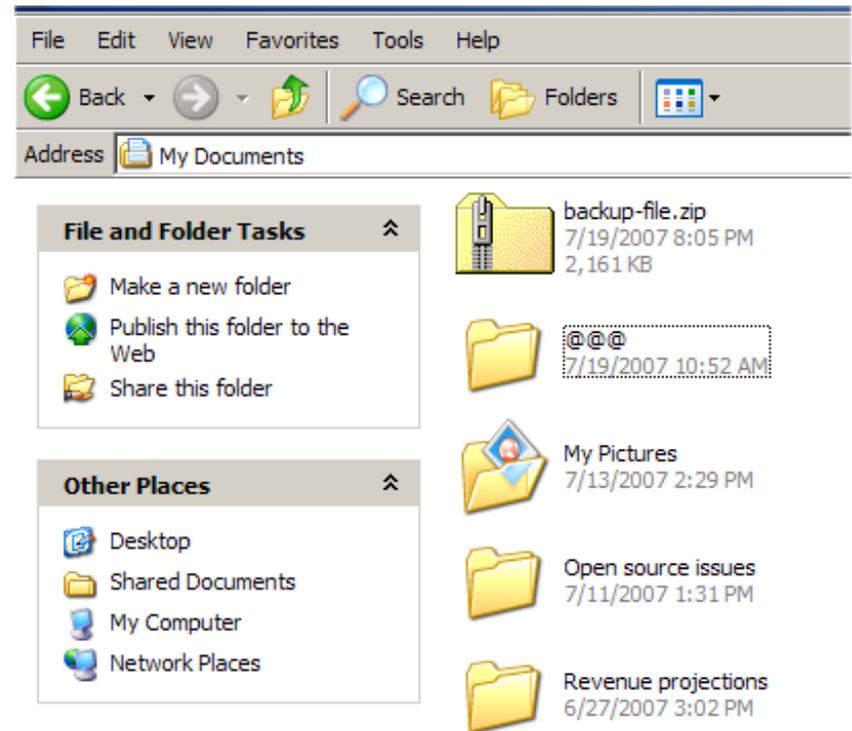
Security Enhancements

- Role Based Access Control
  - Limit privileges for some users
  - Administrators and Operators
- Support for SE Linux
  - Amanda is a protected service
  - OS: RHEL5 / FC 6
  - Support for targeted policy in enforcing mode
  - All this makes Amanda even more secure
- HTTPS Support
  - All pages now protected by SSL
  - Protects passwords from being snooped or sniffed

Amanda Enterprise Edition

- Annual subscription with different support levels
- Zmanda Management Console demo
  - http://www.zmanda.com/ZMC-Short-Demo/ZMC-ShortDemo.htm
- Annual subscription with different support levels
- Join Zmanda Network for Amanda white papers
  - http://network.zmanda.com (free registration)