



Your File System

Introducing YFS 1.0

What is YFS 1.0?

- ◎ YFS 1.0 is the next generation distributed file system for secure private, public and hybrid cloud storage deployments.
- ◎ YFS 1.0 is not a hardware appliance.
- ◎ Backward compatible with IBM AFS 3.6 and OpenAFS.
- ◎ No flag day required for deployment.



Why YFS 1.0?

- ⦿ Performance
- ⦿ Enhanced Security Model
- ⦿ Mobile access
- ⦿ Read write replication
- ⦿ Future proofing
- ⦿ Improved management interfaces
- ⦿ Extended object management



YFS 1.0 Performance

- ◎ RX transport
 - 2x faster than OpenAFS 1.6
- ◎ File Server
 - 50% faster than OpenAFS 1.6
 - Meltdown avoidance
 - Faster volume releases

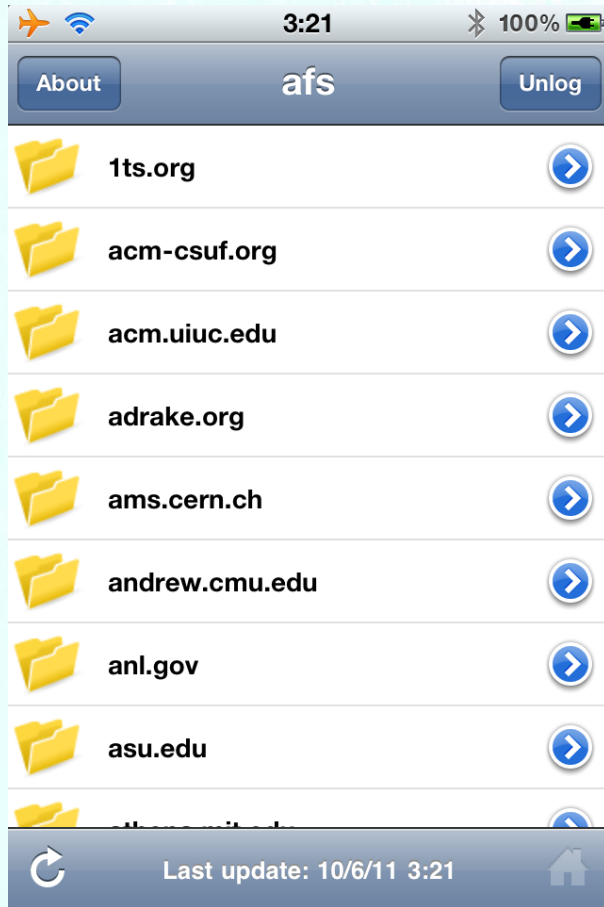


YFS 1.0 Enhanced Security Model

- ◎ Flexible GSS-API authentication
 - Combined identities (user@device)
- ◎ File server enforced mandatory security
- ◎ Location based access control
- ◎ IP ACLs replaced by Machine IDs
- ◎ Maximum Access Lists
 - restricts user assigned ACLs
- ◎ Prevents cache poisoning attacks



YFS 1.0 Mobile Access



- Features
 - File Browser
 - Integrated document viewing
 - Open documents with third party applications
 - Save documents from third party applications
 - Integrated authentication
- Core Application
 - Frameworks available for integration in custom apps



YFS 1.0 Read Write Replication

- ⦿ One master, multiple replicas, lazy replication
- ⦿ Master provides
 - Status Info
 - Locking
 - Data Storage
 - Data Replication
- ⦿ Any replica can be used for Data Fetch
 - CM fails over to Master if necessary



YFS 1.0 Future Proofing

- ◎ Year 2038 Safe
- ◎ 18 Quadrillion volumes per cell
- ◎ 18 Quadrillion files per volume
- ◎ 64-bit database size limit



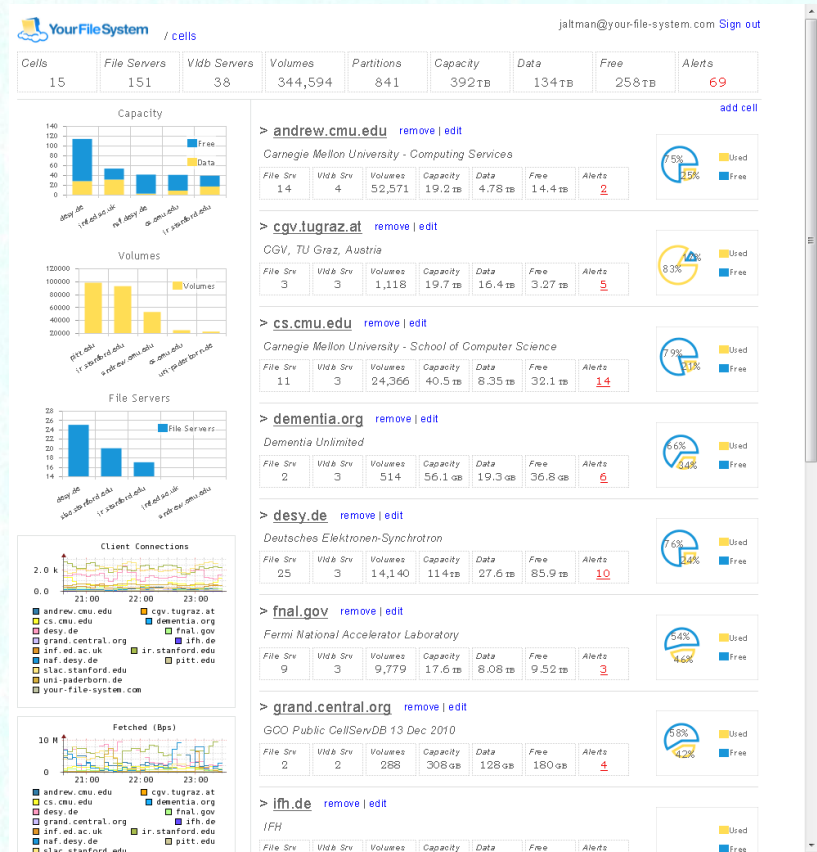
YFS 1.0 Management Interfaces

- ◎ Python, Perl and Ruby modules for all command tools (vos, pts, fs, xstat, ...)
- ◎ Windows Management Console
- ◎ Monitoring Service



YFS 1.0 Management Interfaces Monitoring Service

- ◉ Monitors multiple cells
- ◉ Collects server performance data
- ◉ Performs cell consistency checks
- ◉ Alert generation
- ◉ Cell introspection
- ◉ Browser and mobile application



YFS 1.0 Extended Object Management

- ◎ Unlimited Directory Size
- ◎ Unicode file name support
- ◎ Per File ACLs
- ◎ Extended and POSIX Attributes
- ◎ Byte range and mandatory locking



YFS 1.0 Availability

- ◎ Beta site deployment in January 2013
- ◎ Initial production availability April 2013
- ◎ Updates will be issued every four months
- ◎ Initial platforms:
 - Linux
 - Windows
 - Mac OSX
 - iOS
 - Solaris



YFS 1.0 Source Code

- ◎ “IBM Public License 1.0” licensed code available to customers.
- ◎ Your File System Inc. proprietary code will be made available either via Source Code Escrow or Distribution Restricted Access.



YFS 1.0 Pricing

- ◎ License levels will impose limits on:
 - Number of Protection DB entries
 - Number of Volumes per cell
 - Server throughput
 - Number of servers per cell
- ◎ Enterprise licenses have no limits



YFS Next

- ◎ End to End Encryption
 - Key and Data separation provides cloud solution for storage of HIPAA, FERPA, SOX, and other classified data
- ◎ B2B and B2C Federated File Sharing Solution
- ◎ File Server Background Tasks
 - Content scanning, file format translation
- ◎ IPv6 addressing
- ◎ VLDB and PRDB Information Hiding
- ◎ Federated File Sharing Service
- ◎ Google Docs / Office 365 Integration
- ◎ Disconnected Operations





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