

Apple Filing Protocol (AFP) Implementation for Open Enterprise Server in SLES



THE CLIENT

The client is a startup in cloud storage technology, headquartered in Campbell, USA.



BUSINESS NEED

The client wanted AL TEN Calsoft Labs to do the following.

- Implement a AFP (AFP is Apple's network solution to provide network file services for MAC OS X and classic MAC OS) server for Open Enterprise Server(OES) on SLES 10
- Enhance server performance, thereby reducing service time



TECHNOLOGY USED

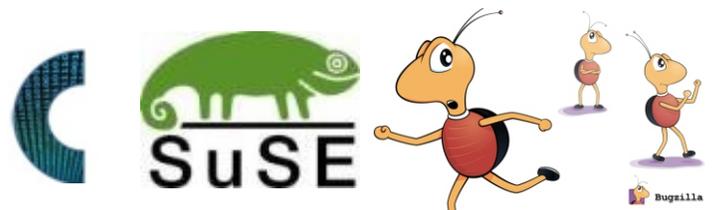
- SuSE Linux, Mac OS X, C Language
- Gdb for debugging, Ethereal for packet tracing, Valgrind for memory leak detection, SVN for source control and Bugzilla for defect tracking



SOLUTION DELIVERED

The expert team of AL TEN Calsoft Labs also did the following to achieve successful on-time service delivery.

- Leveraged AFP which uses two support protocols viz. Data Stream Interface (DSI) and Appletalk Session Protocol (ASP) for its function. Any number of Mac clients can mount a remotely located Volume (file system) using AFP and use the files simultaneously.
- DSI acts as a data/control channel for the AFP procedure calls (from clients) and the replies (from the server), akin to the way NFS protocol uses RPC.
- ASP protocol is used conceptually within the server and client implementations for the newer versions, unlike DSI which is used directly.
- Implemented modules like user authentication, session, thread pool & volume management, file system interface, etc.



BUSINESS BENEFITS

- Better server performance
- Enhanced flexibility and scalability

ABOUT AL TEN CALSOFT LABS

AL TEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). AL TEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi- tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. AL TEN Calsoft Labs is a part of AL TEN group, a leader in technology consulting and engineering services.

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