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Evolution of FUSE and OverlayFS

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OverlayFS is the "union filesystem" soltion that is now available as part of the Linux kernel. OverlayFS is currently in active development. POSIX compliance, NFS export and improved performance are currently being worked on. There are plans to add user namespace and unprivileged mounting support.

FUSE is a userspace interface for developing filesystems. FUSE started out on Linux, but is now available on other platforms as well. FUSE is mostly in the maintenance mode at the moment, but there are plans for adding user namespace support, improving operation for distibuted filesystems and performance improvements to keep in pace with the developments of fast, memory based storage.

This talk aims to give an overview of FUSE and OverlayFS features past, present and future. The target audience is userspace developers familiar with the UNIX filesystem interface.

About the speaker:
Miklos Szeredi is a Linux kernel hacker working for Red Hat. He has been interested in virtual filesystems for a long time, starting several open source projects including Filesystem in Userspace (FUSE) and the Overlay Filesystem. Prior to joining Red Hat, he has worked at SUSE Labs and at Ericsson. Miklos is currently living in a small town near Budapest in Hungary with his family of six, twins being the latest addition.

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