







Protection in the Unix FS Objects: individual files • Principals: owner/group/world Actions: read/write/execute or lookup · Rule: once a principal matches, no futher access · Example: /usr: root root rwxr-xr-x • owner: root has rwx access (read dir, write dir = add/delete files, x = lookup dir entries) • group: root has r-x (read dir, lookup entries) · other: same as group - ~swift/private: swift os-research rwx-----x owner(swift) has compete access • group (drivers) has no access • Everyone else has lookup access(x) • This is pretty simple and rigid, but it has proven to be about what we can handle! 4/30/09 © 2004-2007 Ed Lazowska, Hank Levy, Andrea and Remzi Arpaci-Dussea, Michael Swift 5

