

Services: NFS – network file system

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NFS features

- Trans-network file sharing
- Adequate functionality
- Exploitable security risks

-- NFS HowTo

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NFS-related daemons

- Server
 - Rpc.mountd answers initial requests from clients for filesystems
 - nfsd daemons that deal with the majority of client requests

<http://www.ebsinc.com/solaris/network/nfs.html#nfs3>

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NFS-related directories

- Server
 - exports files to export
 - xtab filesystems actually currently exported
 - rmtab filesystems remotely mounted by clients
- Client
 - fstab files to mount
 - mtab filesystems currently mounted

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NFS-related tools

- `rpcinfo -t emach1 mountd` test connection
- `showmount -e emach1` show how server is exporting (see Garfinkel p 620)
- `mount -` show what's mounted
- `nfsstat` diagnostics on NFS traffic

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NFS: server implementation

- Write `/etc/exports` lines to specify what to export
 - `<dir> <machine(s)>(options)`
 - `/mydir 192.168.3.3(ro)`
- Run the nfs daemons
 - `/etc/rc.d/init.d/nfs start`
- Perform exportation
 - `exportfs -a -v`

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NFS: client implementation

- “mount” directories exported by the server
 - mount <server>:<directory> <mountpoint>
 - mount 192.168.3.1:/mydir /hisdir

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