



# NFS in MacOSX Leopard

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# Leopard Features





# Leopard Features

- TCP is the default instead of UDP
- Kerberos mounts
- Export and Active User Statistics
- NFS on demand
- NFS Configuration
- NFSv4 client (alpha)





# Kerberos Mounts





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- Per-user auth fallback allowed, e.g. **sec=krb5:sys**





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  - NFS requests, bytes read, bytes written
- Server tracks active users: **nfsstat -u**
  - NFS requests, bytes read, bytes written, idle time, user id & client hostname



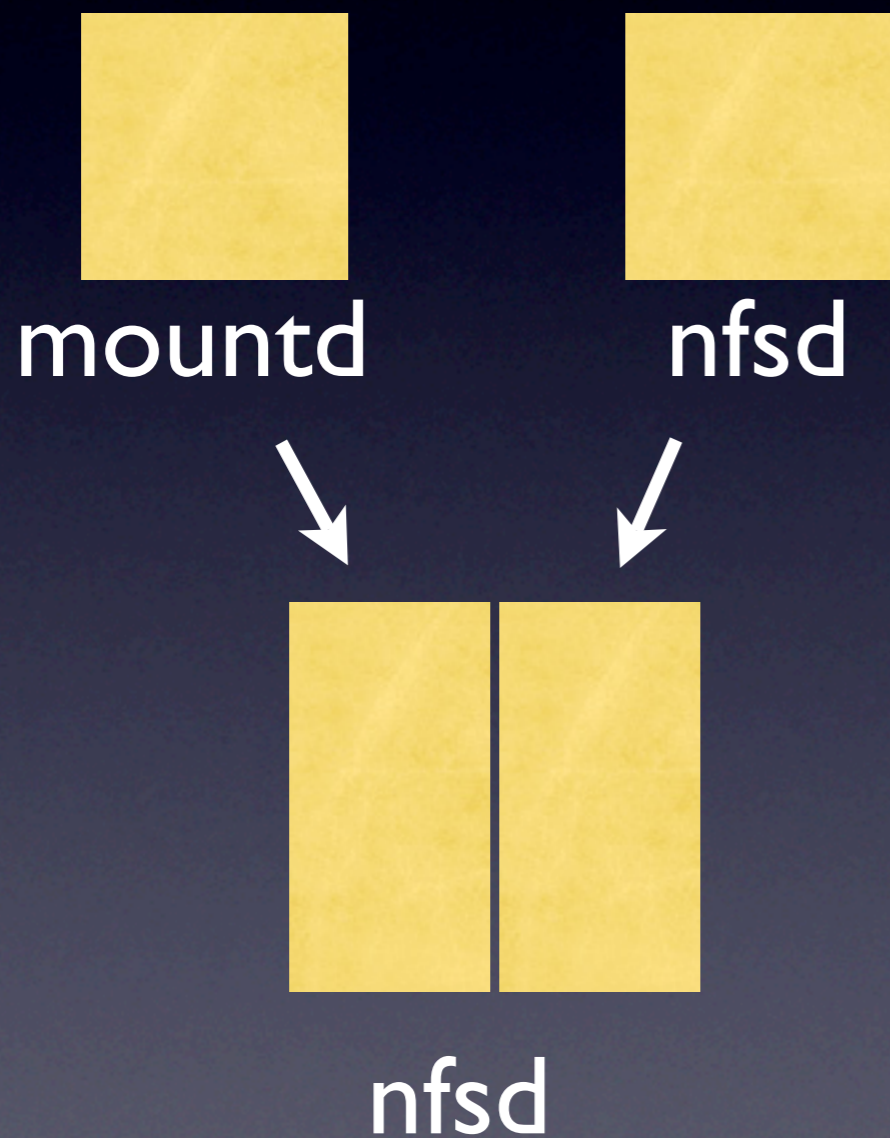


# NFS on Demand





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- Mountd now an nfsd thread
- Start up and shut down together
- Lockd & statd launched on demand and shut down when no longer needed





# NFS on Demand





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# NFS on Demand

- nfsd controlled by launchd
- nfsd is also a command - takes an argument
  - `start` or `stop`
  - `enable` or `disable`
  - `restart`
  - `update`
  - `status`
  - `checkexports`





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- Manages client and server config options
- Lines have **`some.nfs.option = value`**
- Default mount options:

**`nfs.client.mount.options = intr,locallocks,rdirplus`**





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- More like an NFSv3 implementation using NFSv4 RPCs











Questions ?

