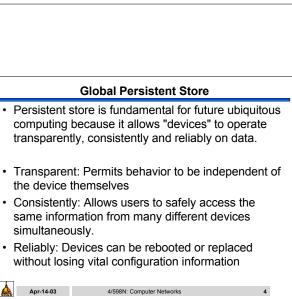
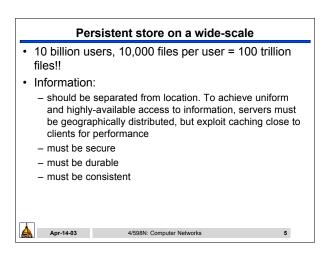
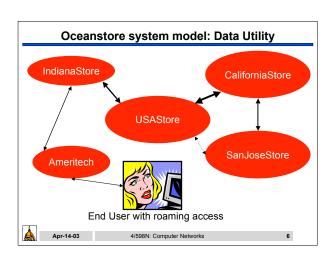
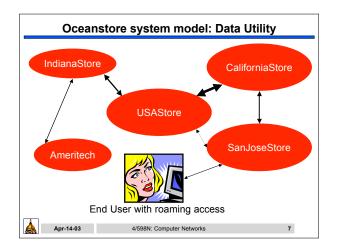


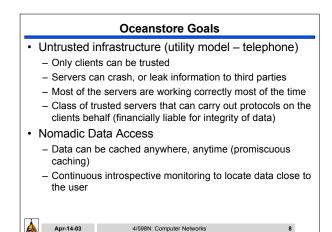
Persistent store E.g. files (traditional operating systems), persistent objects (in a object based system) • Applications operate on objects in persistent store – Powerpoint operates on a persistent .ppt file, mutating its contents – Palm calendar operates on my calendar which is replicated in myYahoo, Palm Desktop and the Pilot itself • Storage is cheap but maintenance is not ~ 4 \$/GB

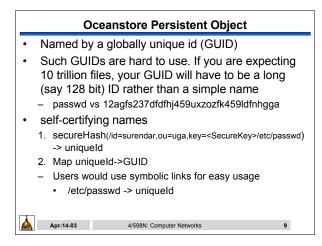


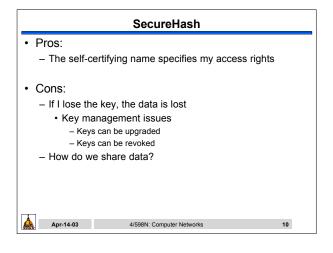


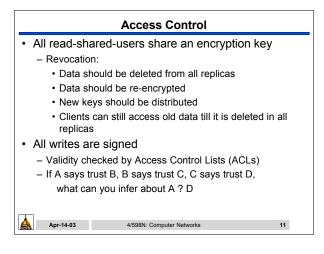


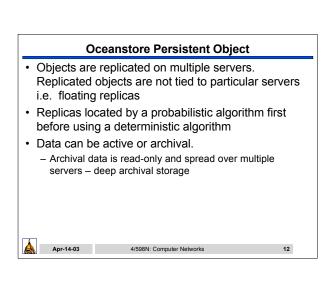












Updates

- Objects are modified through updates (data is never overwritten) i.e. versioning system
- Application level conflict resolution
- Updates consist of a predicate and value pair. If a predicate evaluates to true, the corresponding value is applied.
 - 1. <room 453 free?>, <reserve room>
 - 2. <room 527 free?>, <reserve room>
 - 3. <else> <go to Jittery Joes>
- This is similar to Bayou which we will explore later in the semester



Introspection

- Oceanstore uses introspection to monitor system behavior
- Use this information for cluster recognition
- Use this information for replica management

