

Access to Geographically Distributed Computing Resources

- WWW makes access to distributed read-only data easy
- What about distributed computing resources?
- Alta Vista, Netscape download page
 - geographically replicated to improve bandwidth, reduce latency, improve availability
 - manually managed, at server and client

WebOS Components

- Resource Discovery
 - Client Application must be able to dynamically locate server with best QoS
 - Mapping of name to service; load balancing; state management
 - Smart Clients, Smart Proxies
- Wide Area File System
 - To support replication and wide-scale sharing.
 - WebFS: cache coherent wide area file system.
- Security and Authentication
 - To support applications operating across organizational boundaries.
- Process Control
 - Execute a process on remote node.
 - Control to safeguard local system integrity and resource usage.











