



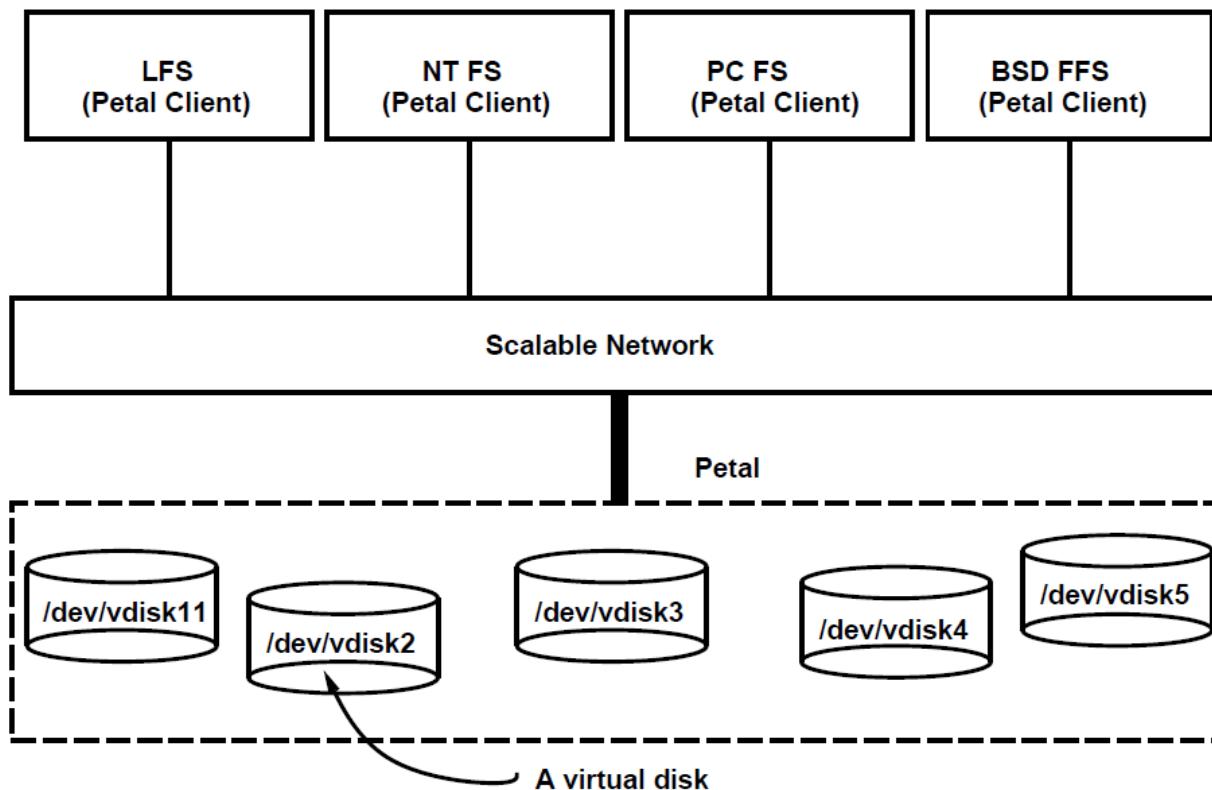
ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ
UNIVERSITY OF CRETE

HY590.45

Modern Topics in Scalable Storage Systems

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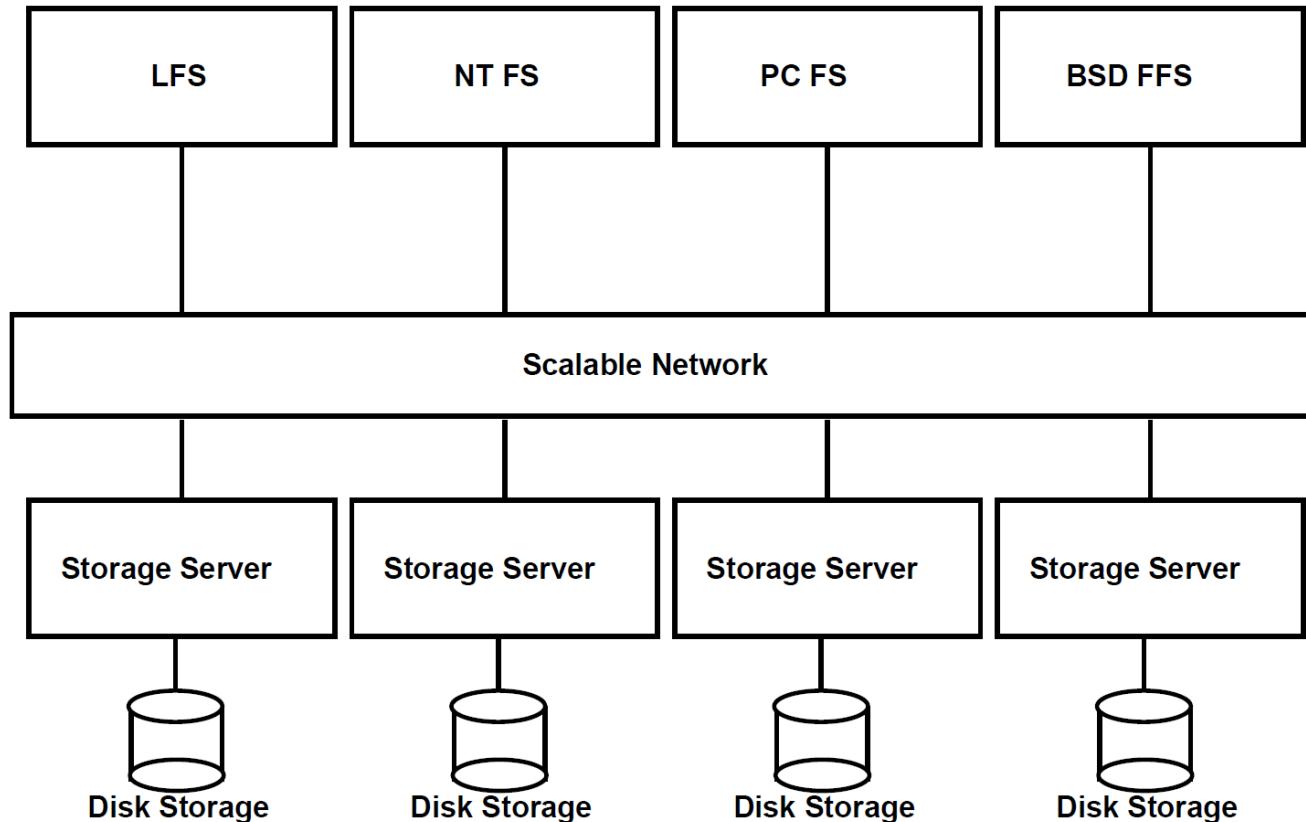
Petal: Client view



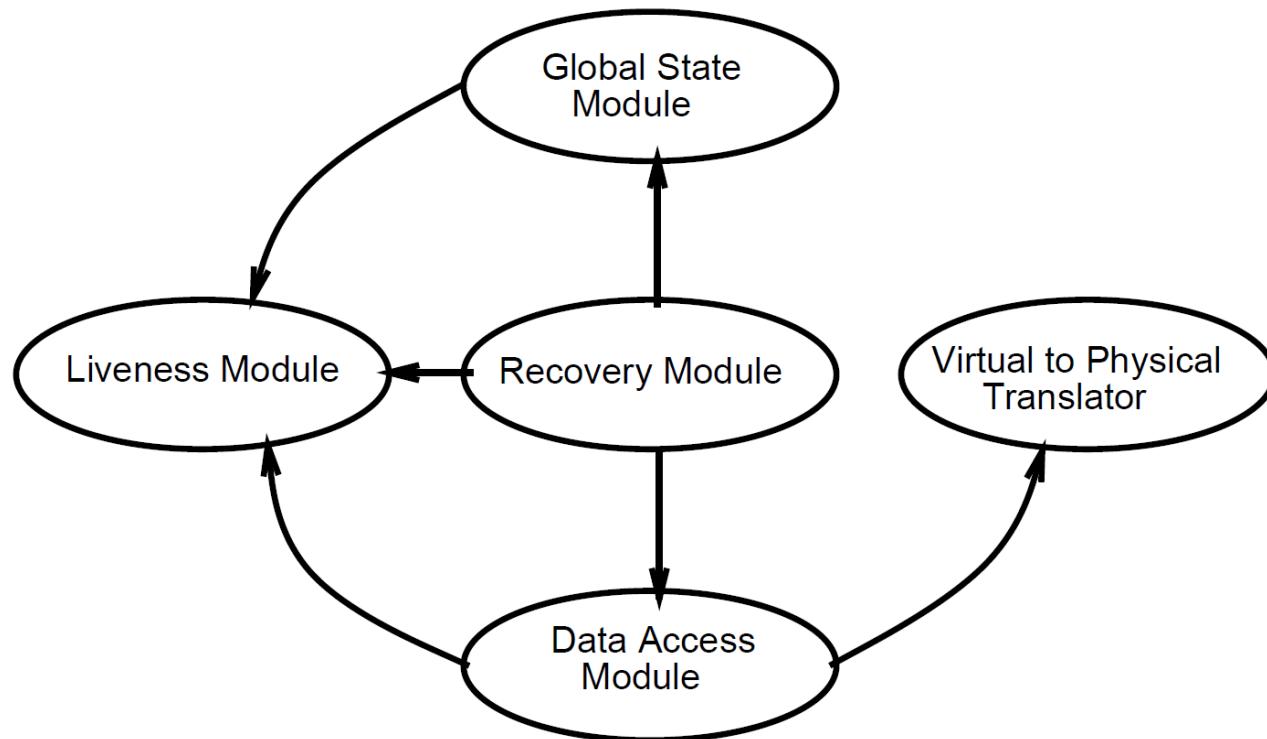
Goals of Petal

- Tolerate and recover from any component failure
- Geographically distribute to tolerate site failures
- Transparently reconfigure to expand, balance load
- Dynamically balance load
- Fast and efficient support for backups and recovery

Physical structure



Server modules



Virtual to physical mapping

$\langle \text{vdiskID}, \text{offset} \rangle \rightarrow \langle \text{serverID}, \text{diskID}, \text{diskOffset} \rangle$

