



Power-All PGFS Introduction



All Rights Reserved Power-All Networks Limited © 2009 Proprietary and Confidential

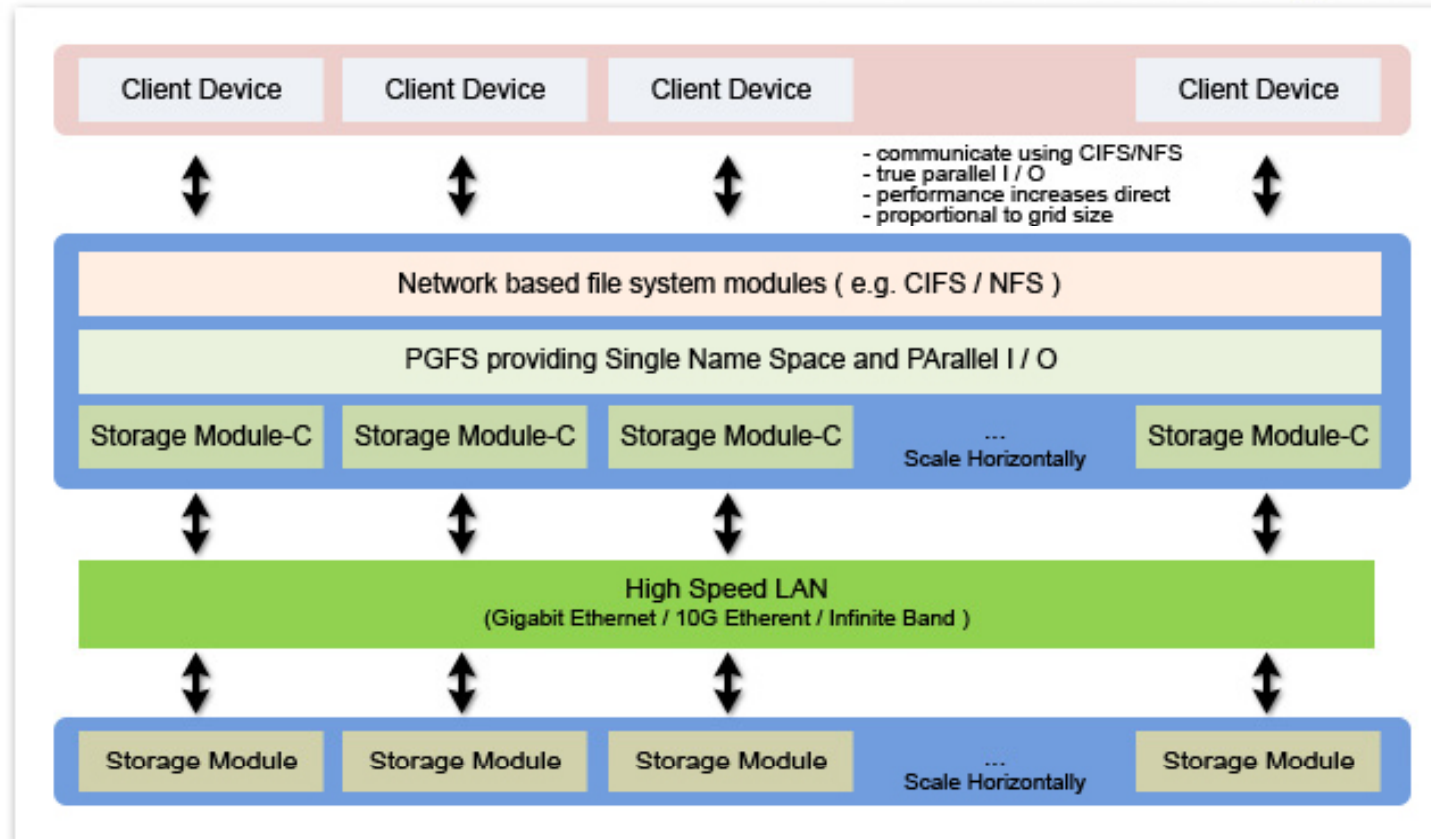
- What is PGFS ?
- PGFS Features
- PGFS Structure
- PGFS Data Replication
- Why PGFS ?
- Summary

- PGFS stands for Power-All Global File System
- PGFS is proprietary parallel cluster file system developed by Power-All Networks Limited
- PGFS is a powerful cluster based network file system capable to petabytes level
- PGFS runs on top of Power-All Aspen Storage product with customized-Linux kernel module

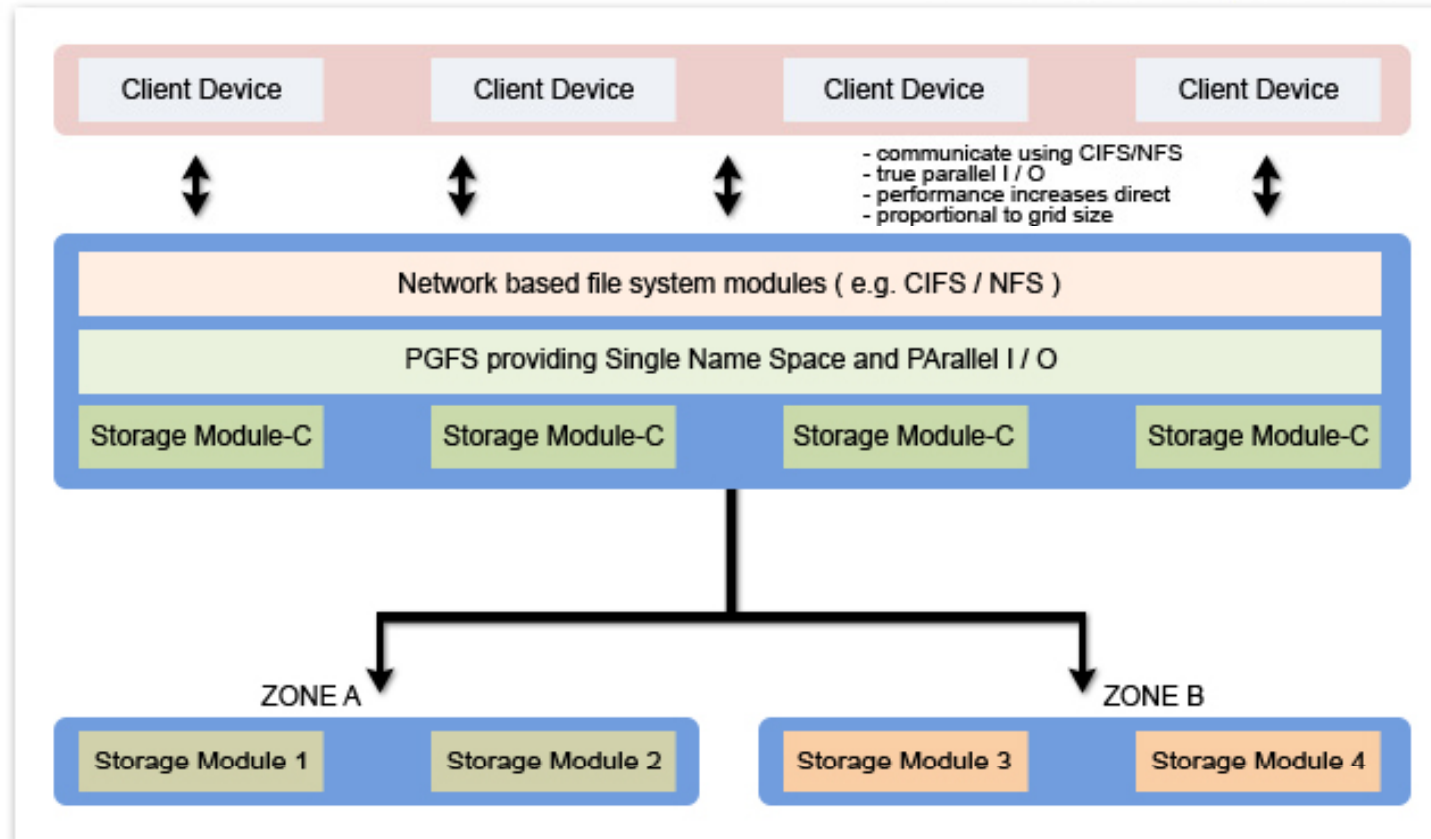
- Supports single name space of storage within same cluster
- Supports online storage expansion up to several petabytes
- Supports distributed data storage across **Storage Module** servers over network with TCP / IP or InfiniBand
- Support true parallel I/O clustering, all components can be scaled horizontally

- Supports true “no-single-point-of-failure”. There is no component with centralized design
- Supports high availability of data by real time replication
- Supports real time multi nodes, bi-directional data replication
- **Storage Module** supports third party NAS
- Fully compatible with **Aspen Cloud Storage** which is a cloud based storage service with standard RESTFUL APIs

PGFS Infrastructure Diagram



PGFS Data Replication



- Unlike many other cluster file systems which still has some centralized component for control / meta data, PGFS is a true distributed design without performance bottleneck and without single point of failure
- Performance is directly proportional to number of **Storage Module** and **Storage Module-C**
- PGFS provides high availability of data by real time multi-nodes and bi-directional data replication.
- PGFS can distribute data across Internet with good quality of Internet line

- Performance can be maximized by using latest 10G Inifiband network equipments
- Single name space means PGFS backend clustering is transparent to user application
- **Storage Module** supports existing third party NAS
- Fully compatible with Power-All GNTM for global load balancing
- PGFS runs on top of standard PC hardware component, which means price can stick with market

- Core element of Power-All Aspen Cloud Storage
(<http://storage.cloudwww.com>)
- Core technology of CNAS-Grid product
- Enterprise Storage System
- IDC Storage System
- Video Library
- Data Backup for disaster recovery

Thank You

For more information, Please visit

<http://storage.cloudwww.com/>

And

<http://www.powerallnetworks.com>

Email: newgen@powerallnetworks.com