Central NAS Service

FNALU Users Meeting

12/19/2007

Central NAS Service

- What is NAS?
- BlueArc
- Storage Tiers
- Users of the Central NAS Service

What is NAS?

- NAS – Network Attached Storage. “File Based” access to storage over an IP network.
- Two types
  1. AFS
  2. NFS/CIFS (BlueArc)

BlueArc -- Overview

2x 4Gbps

2x 6Gbps

Generation 1

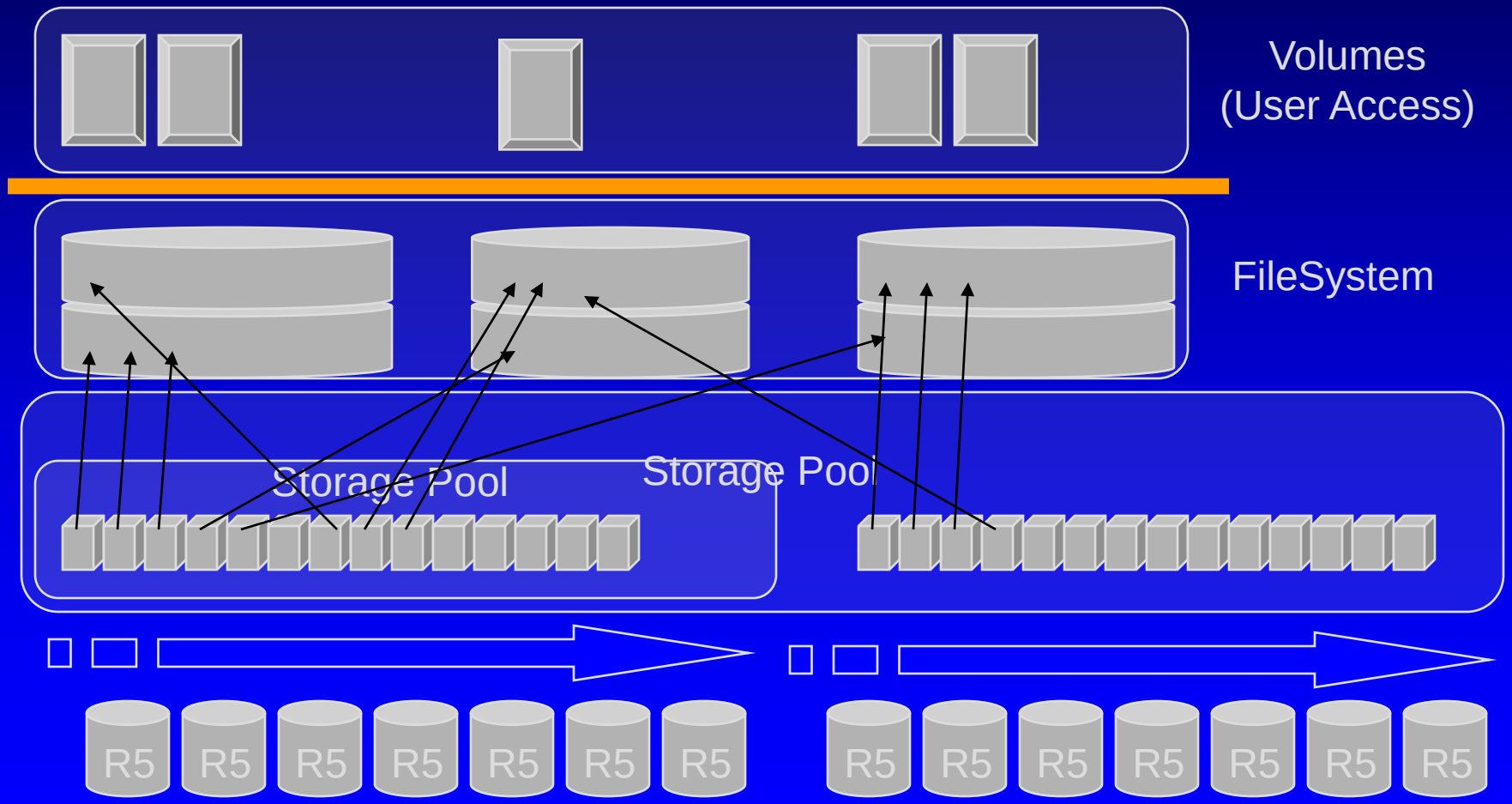
Generation 2

Central SAN

Tier 1

Tier 2

BlueArc – User Areas



User Ares - Quotas

We support three (3) types of quotas:

1. Volume Quotas – What users see as filesystem size
2. (UNIX) Group Quotas – Based off of central UID/GID database
3. User Quotas – Based off of central UID/GID database

Storage Tiers

- Tier 1 – RAID 5 Fibre Channel
  - High I/O performance
  - Fast rebuild times
- Tier 2 – RAID 6 SATA (dual parity)
  - Moderate I/O performance
  - Moderate to slow rebuild times

Who Are Our Users

- CD
- CDF
- CMS
- Directorate
- D0
- DSG
- FermiGrid
- FESS
- FNALU
- Miniboone
- PPD
- SDSS
- LHC
- ILC
- Scientific Linux/Fermi
- SMS
- Central Webservers
- AlphaFlow (CD Purchasing system)

FNALU Specifics

- Storage from General User Storage Pool
  - Intended for interactive use
  - Will not be exported to GRID
- GRID storage *is not intended* for FNALU
- FNALU admins *are* the central point of contact

More Information

http://computing.fnal.gov/nasan/bluearc.html

Questions?