

Introduction

SARA dCache Environment

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SARA Computing and Networking services
HPCV



dCache Usage

- Tier1 (LHC data)
- Other grid related projects
- Archive



Hardware

- Storage servers
 - 15 dual AMD Opteron, local disk space
- Grid servers
 - 6 Dual Intel Xeon
- Mass storage clients
 - 3 dual Intel Xeon, SAN attached
- Mass storage server
 - Quad R16K MIPS, SAN attached,1.6 TB filesystem
- Tape Library
 - Sun/StorageTek Powderhorn
 - Sun/StorageTek SL8500



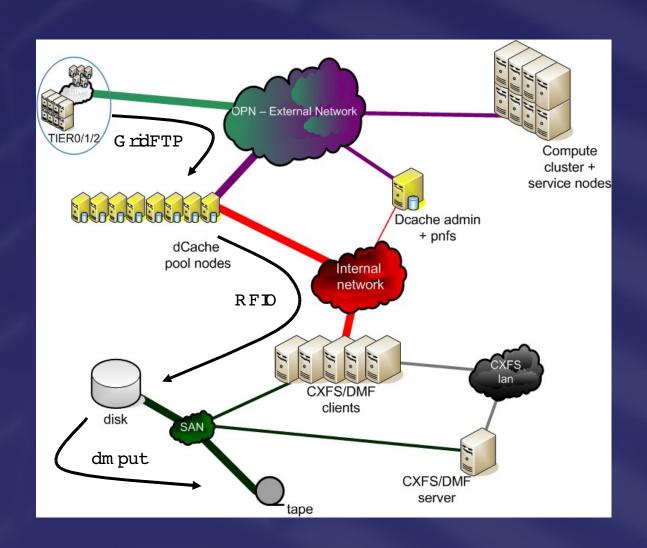


Network

- External LAN
 - Interface to Tier0/1/2
 - Gigabit
- Internal LAN
 - Interface to Mass storage environment
 - Gigabit
- Management LAN
 - TCP/IP services and remote login
- Console LAN
 - Remote console connection



Network





Management

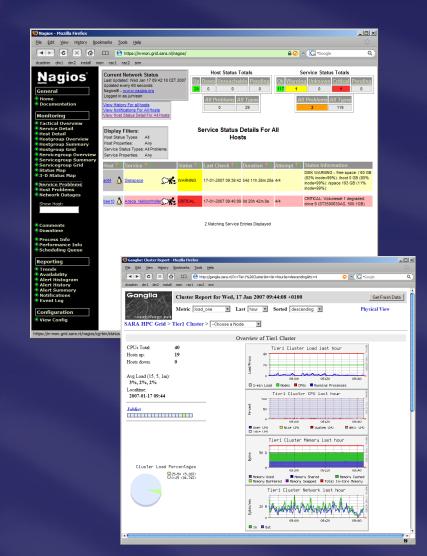
- Cfengine
 - Change management
 - Install new software
 - Run commands
- Systemimager
 - Quick installation
- Scripts



Monitoring

- Nagios
 - Easy overview
 - Notifications
 - Highly customizable
 - Plug-ins

- Ganglia
 - Graphs





Issues

- World readable files
- Admin node restart → Pools too?
- dCache database unavailable means losing files
- SRM database size
- Stability



Questions?

Thanks for listening