



TRIUMF D3D Status

Denice Deatrich, Réda Tafirout

TRIUMF

D3D Workshop

CERN, September 13th 2006

D3D project at TRIUMF

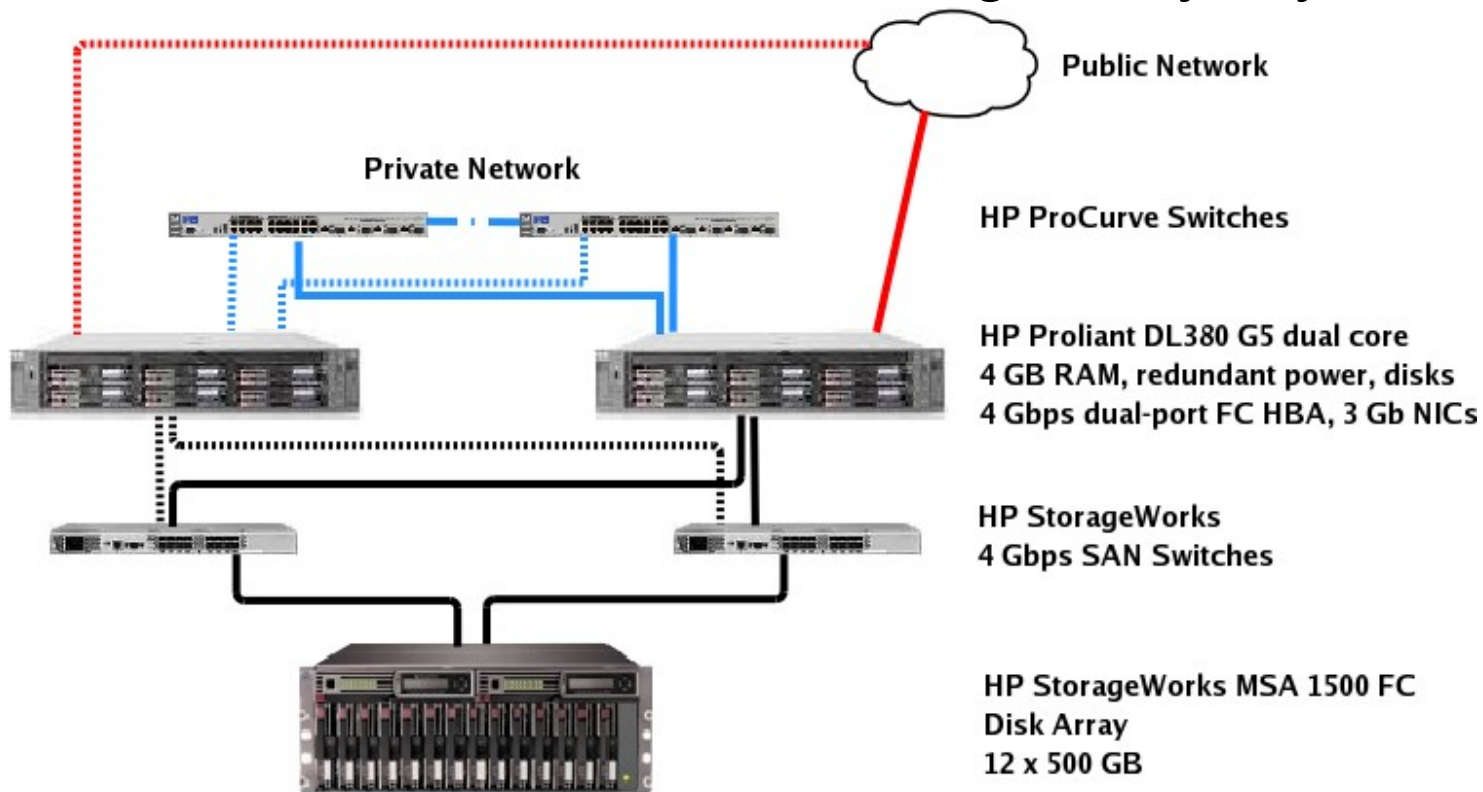
- According to D3D project plans, TRIUMF is a “phase 2” site scheduled initially for deployment by October
- Personnel status:
 - DBA contact: Denice Deatrich (deatrich@triumf.ca)
 - A specific Oracle/DBA expert to be hired this fall.
- Hardware status:
 - Ordered Oracle RAC solution few days ago
 - Expected delivery in ~2 weeks
- Anticipate D3D setup/readiness by first week of October

ATLAS requirements

- TRIUMF: Tier-1 for ATLAS only
- ATLAS requirements / use cases are still being discussed
- DB volumes dominated by:
 - Conditions data: ~few hundreds of GB/year
 - TAG data: 2 TB/year
- More on ATLAS requirements/estimates during this D3D workshop
- FTS + LFC planned to be served by RAC (small volume expected)

D3D hardware

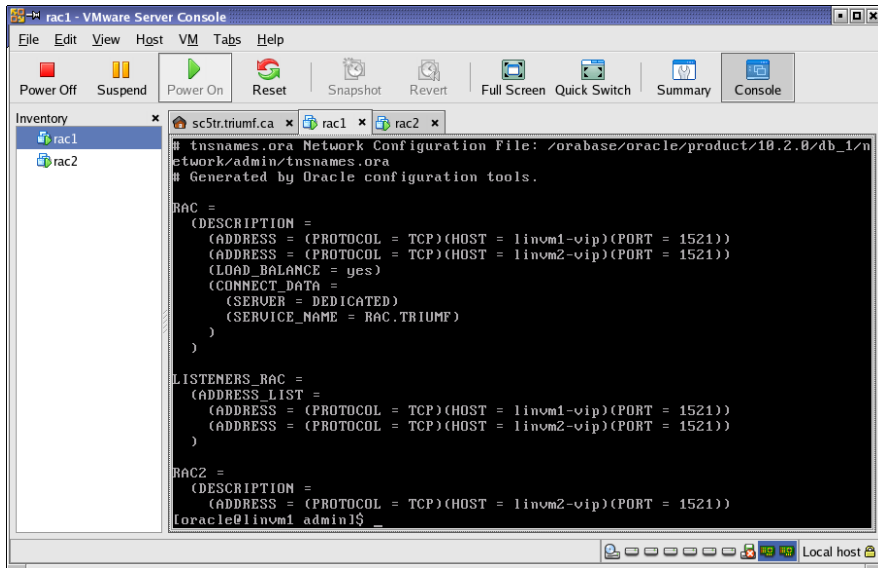
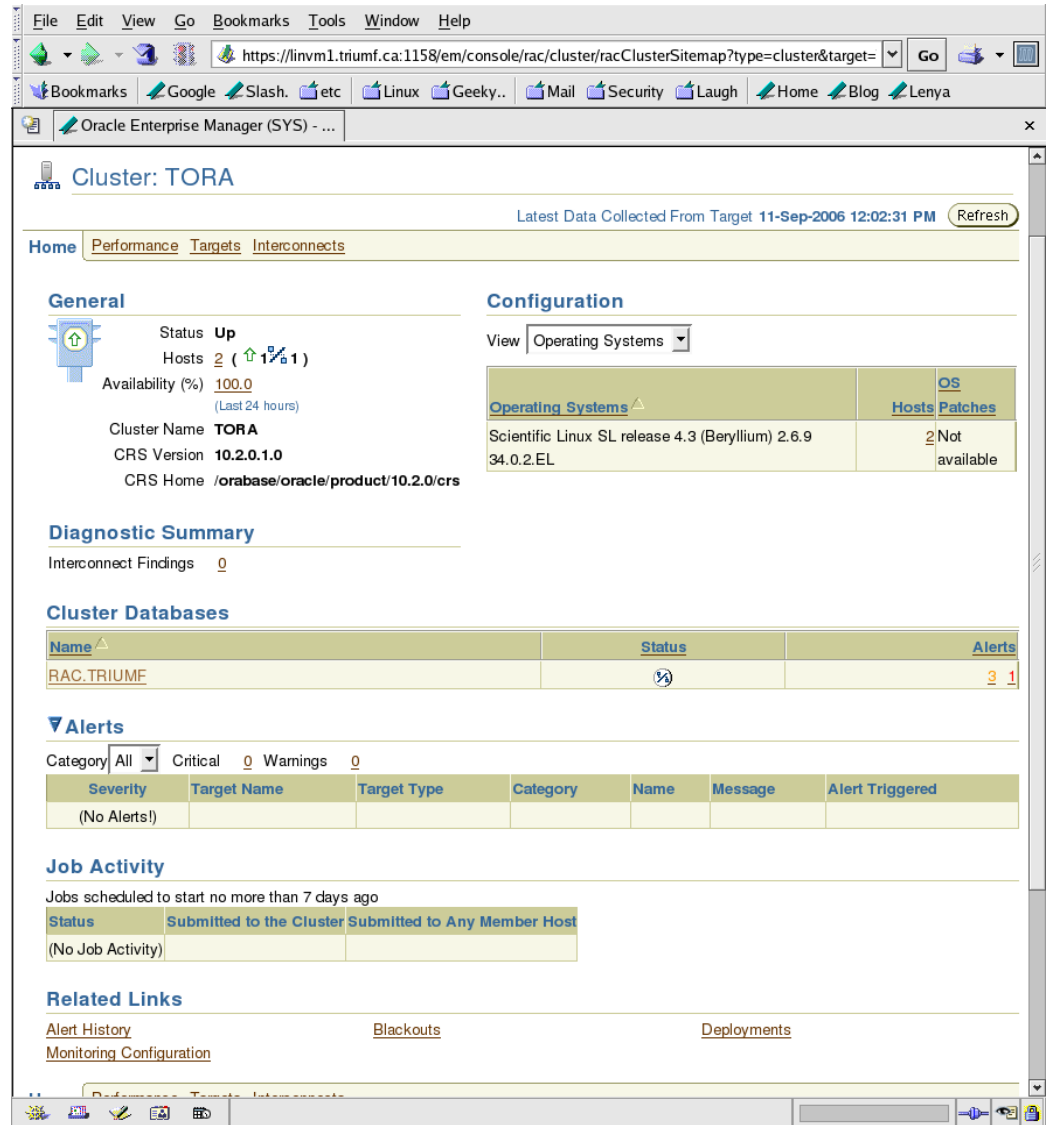
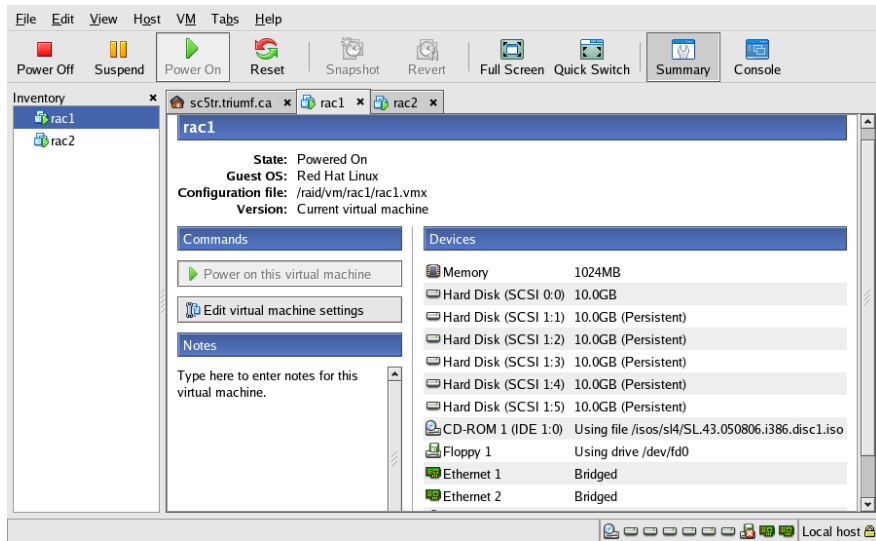
- Oracle RAC solution based on HP hardware exclusively
- Storage could be sufficient through 2008 (unlikely)
- Will be add more RAC nodes + storage arrays by end 2008-09



Virtual Oracle RAC

- For the time being... we deployed an Oracle RAC using Vmware server
- High end server: dual processor, 4 GB RAM, 3.5 TB disk (direct attached) with SL 4 update 3.
- Configured with two RAC nodes (10g Release 2)
- We would like to use this setup for “unofficial” D3D deployment and testing to gain experience and be ready when hardware gets delivered
- Could also be used by ATLAS for streaming tests as well
- Storage functionalities limited in this mode: ASM, clustered filesystems (ocfs, ocfs2). Still under study

Screen shots



more...

The screenshot shows the Oracle Enterprise Manager 10g console interface. The browser window title is "Oracle Enterprise Manager (SYSMAN) - All Targets - SeaMonkey". The address bar shows the URL "https://linvm3.triumf.ca:4889/em/console/targets\$ctxType=All_20Targets". The page header includes the Oracle logo and "Enterprise Manager 10g Grid Control". Navigation tabs include Home, Targets (selected), Deployments, Alerts, Policies, Jobs, and Reports. A secondary navigation bar lists Hosts, Databases, Application Servers, Web Applications, Services, Systems, Groups, and All Targets. The main content area is titled "All Targets" and shows "Targets Not Configured 5". A search bar contains "Agent" and a "Go" button. Below the search bar, there are controls for "Remove", "Configure", "Add", and "Database Instance" with a "Go" button. A table displays the following data:

Select	Name	Status	Type
<input type="radio"/>	linvm1.triumf.ca:3872		Agent
<input type="radio"/>	linvm2.triumf.ca:3872		Agent
<input type="radio"/>	linvm3.triumf.ca:3872		Agent