generic
network|systems

GNS Geneva Managed Case Study

Our client is a medium sized hedge fund that makes extensive use of the Advent Software Geneva portfolio management system on Sun Solaris.

Geneva is a sophisticated client-server based portfolio accounting application. The core software runs on a high-end Sun Solaris based multiprocessor server in their New York office. Their DR/Failover machines are hosted at a third party data center in New Jersey. The users access the system from their desktops.

We provided the following services:

- Specified and sourced a Sun Fire X4470 server with an array of mirrored disks for the production environment, and a smaller Sun X4170 M2 server for the remote disaster recovery site.
- Installed hardware, Solaris UNIX-OS, and Geneva application at both DR and Production data centers.
- Applied all the Advent recommended kernel settings, and tuning parameters to optimize the system for Geneva.
- Cloned production environment to create a test environment for testing new reports and new Geneva releases.
- Developed a series of tape archive scripts to allow the operational staff to quickly and easily back up the servers.
- Implemented replication scripts to periodically checkpoint the Geneva in-memory database on the production server, send the files to the DR server, and verify that the files were received on DR server.
- Developed and deployed a series of scripts to automate the daily process of inputting trade data into Geneva.
- Set-up the GNS monitoring sub-system to monitor the UNIX operating system, the hardware and Geneva as per standard GNS practice. This includes our custom monitoring agent that logs into Geneva every 5 minutes, as well as process watching agents that monitor the Geneva server processes.
- Installed and configured the open source Samba service to allow development and operations staff to mount and view parts of the UNIX file system from their PCs, and access the Geneva reports without logging into UNIX server.
- Configured *dhdaemon* ODBC interface and configured simple, custom reports to check system.
- Configured the GNS reporting subsystem to provide a weekly view of CPU utilization, disk usage, memory usage, disk wait, and network latency. The reports are automatically emailed to client every week for capacity planning.

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