Maintenance plan for 2009-12-15

From Jefferson Lab Computer Center

Task - Migrate halldsvn subversion server to new, upgraded VM

Coordinator -- M. Wise

Who it affects -- Hall D Subversion users

What systems it affects -- halldsvn

Discussion --

The existing halldsvn server is running as a standalone apache instance configured on its own IP address on web15. The Hall D developers need features of the newer (1.4.2) version of the svn client included in the RHEL5 CUE apache web server config. A new VM has been created and configured as "halldsvnnew". This new VM will replace the existing instance of halldsvn, preserving the existing name, IP address and x.509 certificate to make the transition transparent to its users.

The outage necessary to make all the name changes required will be an hour or so. The time is scheduled at 2:00 to correspond with their group meeting.

Implementation

- Beforehand
  - Build the new system completely, named halldsvnnew
  - Copy x.509 cert and key onto new server from existing halldsvn
  - shut down test server on halldsvnnew
  - Edit halldsvnnew config to rename machine, re-IP to match old halldsvn server
  - Turn off startup of httpd on halldsvnnew
  - Shut down halldsvnnew VM
  - Clone VM of halldsvnnew to halldsvn to get all the filenames correct
  - edit config files for web server to reflect halldsvn rather than halldsvnnew
  - Notify cyber security of upcoming change so "greg-o-matic" doesn't kill the firewall hole
- During scheduled outage
  - shut down httpd instance on web15 associated with halldsvn
  - Configure halldsvn web service off of web15 in JMan
  - Create tarball backup of the repository
  - shut down the ip address of halldsvn on web15, edit to NOT start at boot
  - Remove DNS (JNet) entry for halldsvn
  - Edit DNS (JNet) entry for halldsvnnew, change name to halldsvn and IP to 129.57.64.7, update MAC address for new (cloned) VM
  - Inspect current NFS exports to halldsvnnew, update them to reflect halldsvn
  - Startup halldsvn VM (cloned from halldsvnnew)
  - Confirm that the halldsvn VM has correctly assumed its new identity
  - check proper NFS access to group areas (r/w to subversion directory)

Test Cases

A few basic svn gets, lists, etc. wil show that it's basically working, but more thorough testing will need to be performed by the system's users, rollback to previous server if insurmountable problems arise.

After Testing Complete (Cleanup)

- Remove tarball backup made of repository
- remove config files associated with halldsvn IP address on web15
- Remove halldsvnnew VM
- remove obsolete halldsvn server record in JMan.Webservers table

Backout

- Shut down halldsvn VM
- Restore repository tarball
- remove JNet entry for halldsvn
- make DNS entry for halldsvn/129.57.64.7 via nsupdate
- startup halldsvn IP address on web15, configure to auto-start at boot
- Configure halldsvn web service to start in JMan
- Startup halldsvn web service on web15

Time Estimate -- 1 hour

Dependencies -- Infrastructure up/stable (Network, DNS/NFS, etc.)

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