

Using MCTEST on Swift Farm

Anyone can use the mctest account to explore or test McFarm functions (you should send an email when you start and when you end, so we don't step on each other's toes when using it).

Login to hepfm007 using mctest, and the password is in the /home/mcfarm/drew/mctest_pw file (must be mcfarm to read this).

The account is mctest, and all the scratch, gather, cache, and archive directories start with mctest (e.g., mctestscratch, mctestscr008, etc). See bin/setup_farm for any questions.

It can access nodes 7,8,9 for processing and 1 2 3 for fileserving. Please use only SHORT jobs for testing, of 1 or 2 events, so the time does not excessively interfere with normal farm time on these nodes.

If you must run a long job, send it to 8 or 9 (stop the execute daemon on 007 to prevent new jobs going there). First set max=1 in /home/mcfarm/distribute.conf file so that the REGULAR farm will stop sending 2 jobs to either 8 or 9, then WAIT until that node is down to 1 job, and DON'T FORGET to set the regular farm back up to max=2 when you are done testing on that node.

When you begin using it, you will want to clean it out of the last jobs and prepare it for your use:

1. `rm -rf dist_queue/UTA* dist_queue/0*/UTA*`
2. `rm -rf /mctestscr0*/exec*/*`
3. `rm -rf /mctestscr0*/run/*`
4. `rm -rf /mctestscr0*/gath*/*`
5. `rm -rf /mctestscr0*/err*/*`
6. `rm gather.conf`
7. Edit notify_alert and notify_routine to point to yourself for emails.
8. Make sure you have the latest version of mcfarm. If the mcfarm_NN-NN.tgz file in mctest is NOT the same as the file in /home/mcfarm, then delete the old one(s), copy the new one to /home/mctest, untar it (`tar xzf mcfarm_NN_NN.tgz`).
9. Edit distribute.conf to set max=1 for whatever nodes you want to test on.
10. Unlike mcfarm, the mctest "start_farm" does NOT dynamically mount its worker nodes 8 and 9 or its file-servers 1 2 3, because there is no root-daemon associated with mctest. So IF the 007 node has been rebooted since you last used mctest, you will have to manually mount nodes 1 2 3 8 and 9. This is done by becoming root, then running /home/mctest/bin/mount_mctest.
11. Do a start_farm if you wish, or at least start_lockman so you can run other programs.

By default, the mctest "start_farm" does NOT start either sam-gather or sammetadata gather from mctest - therefore nothing you do from mctest will ever be declared to or stored in SAM.

Also at this time, there is no minbi in the mctest cache dirs. If you need some (to create jobs), make LINKS in one or the /mctestcacheNNN_X directories to the regular farm minbi files on that same disk, then create the job_create/minbi_files file and edit the setup_farm for the total minbi events you have made accessible by your links. Using links allows mctest to have access to minbi without taking disk space away from mcfarm.