Since the start of the year, we have made some refinements to our process to mostly automate the configuration of Inca testing on XSEDE resources based on kit registrations from the Information Server, info.teragrid.org. To provide context, we described this in our quarterly report for SDI as follows:

“This improvement will quicken the response time of test configuration changes and simplify maintenance of the deployment for the SDSC Inca administrators. Previously, only notifications of changes in the Information Server were automatically provided and then changes were manually propagated to the Inca configuration file. Now changes for resources (i.e., new kit registrations or change in components of kit registration, versions, hosts, ports, etc.) are automatically inserted into the Inca configuration file where they can be reviewed and then committed. The previous Inca configuration file contained 204 test descriptions parameterized with values which, when combined with 803 values (manually input mostly from kit registration information), expanded into 1026 tests being executed across all XSEDE resources. The new current Inca configuration file contains 200 test descriptions combined with 110 manually managed values and 1413 automatically generated values from the kit registrations to produce 1007 tests that are being executed across all XSEDE resources. Thus, the amount of manual information in the Inca configuration file is reduced by a factor of ten and greatly simplifies management for the Inca team who will continue to make some small automation improvements in the next quarter.”

We also have begun to setup a failover Inca web and data server on our VM gw60 on Quarry. We have talked to the Information Services and XDCDB teams to see how they have handled failovers for their servers. Both were able to get a set of keys from NCSA that allowed them to make updates to the DNS server to point to the working server. Per your suggestion, we submitted a ticket to [help@xsede.org](mailto:help@xsede.org) on Wednesday but have not received a response. In the interim, we are working on a script to deploy on gw60 that will use wget to detect when our primary server, capac, is down and switch the DNS entry over to gw60 and as well switch it back when capac is up. We also have been in contact with Mike Lowe with respect to work on the FutureGrid project.  He says says they are in the process of migrating VMs like gw60 over to a new infrastructure so we have asked him to migrate gw60 as well in the next few weeks.

Finally, at SC’11 we chatted with Maytal and she is currently receiving the test notifications for when stale load or job data is detected in MDS. She said the test notifications are usually correct and simply involved her emailing the system administrator to restart their Tomcat containers. She asked for this to be moved to the Help Desk. We have gone through the existing tests and have observed some redundancy in the them so will make a cleanup pass on the tests before contacting the Help Desk.