

SURAgriid Stack Discussion notes, March 15, 2007

Current stack (as "officially" on SURAgriid Web)

Blue indicates proposed changes

SURAgriid resource requirements & recommendations: (as of January 2007)

(Note: Different applications may dictate requirements beyond these, which will be treated as application-specific requirements until shown to be a more common need that should be moved to overall resource requirements).

- Required: Globus 4.x, WS-GRAM, gridFTP, WS-MDS and RFT. Pre-WS GRAM and MDS are strongly recommended to support existing legacy applications.
- GSI-OpenSSH is recommended for application staging. If supported, it is required that you use the default port or advertise the alternate port through WS or the SURAgriid portal.
- Any version of operating system that supports the required services above, with Linux 2.4 or higher recommended in order to provide a common platform for application development.
- Addition of resource and relevant system detail to the resource monitor (GPIR) of the SURAgriid portal.
- A scheduler installed as part of your underlying resource configuration.
- Cross-certification with SURAgriid Bridge CA - strongly recommended at this time and likely to be required in the future. (See <https://www.pki.virginia.edu/nmi-bridge>)
- Configuration of the required environment variables as defined in SURAgriid Environment Variables. Configuration of the optional environment variables also recommended.

Notes towards stack revision

Highlight indicates topics that were not covered

- 1) Revisit required/recommended in WS and pre-WS specific services.
- 2) Revisit required/recommended for GSI-OpenSSH
 - Full group agreement on one call to make this a requirement
- 3) Address GSI-SSH default port
 - If we don't specify a default, each system needs to publish or advertise via Web services (if WS)
- 4) Address firewall port
 - Was noted that Teragrid & SCOOP both specify port 2222
- 5) "Information extraction"
 - What might we add to get data towards accounting?
 - MDS
 - Network Weather Service
- 6) TIGRE integration – how do stacks match up?
 - Client/Server separation – time for us?
- 7) Add any compilers & libraries?
 - Licensing issues
- 8) Revisit packaging the stack
 - Interest last meeting & volunteers to assist but no one to lead
 - Sample talk-about-the-stack page:
http://www.teragridforum.org/mediawiki/index.php?title=CTSS_4_Overview
- 9) Problem w/TACC certs & VDT (or CTSS?) installations
 - VDT includes default TACC CA info that overwrites the TACC CA signing policy file that is generated through the Bridge CA cross cert process. Only solutions I see:
 - Don't include the TACC CA in the bridge CA
 - Make sure everyone installs the SURAgriid CA files after any VDT install