**Campus DHTC Infrastructure**

High Level Goals:

* Create a campus DHTC infrastructure that:
  + Can be installed and used without help from developers
  + Can be readily debugged by intelligent users
  + Has simple, short (1-2) page documentation for users
* Collaborate with XSEDE as needed so that an XSEDE interface can submit jobs to the Campus Grid, and the Campus Grid Infrastructure can be used to submit jobs to XSEDE.
* Enable and support several campuses so they can implement and use the OSG DHTC Infrastructure.

Tactics:

* Maintain an installed test bed for Campus Grids (Need one with external access)
* Experiment with developing an SSH infrastructure (for simplicity)
* Maintain relationships on campuses we have identified and/or started working with
  + Nebraska, Virginia Tech, Purdue, Sunshine Grid, …
* Campus visits to understand needs and promote capabilities
* Target CMS Tier-3’s (need a mechanism for deploying CMSSW)

Staffing Plan:

* 40% Dan
* 50% Derek
* 70% Marco
* Support from the Condor team (Todd??)

Risks and Concerns:

* Campus DHTC infrastructures are slow growing (~several years) and heavily relationship based

Strategy:

Requirements:

**Production**

Strategy:

* Leverage information from (and share information to) the OSG, its stakeholders, and community member to understand what is happening in the community, and in the OSG, and make sure this is coordinated as far as the production infrastructure is concerned.

Risks and Concerns:

* Infrastructure stability as it scales (and it is constantly scaling)

High Level Goals:

* Monitor the infrastructure at a high level including identification of problems preemptively
  + Identify trends and needs within the infrastructure
* Manage “change management” at the production level
* Enable a strong Operations and TSE team (goals discussed separately)
* Enable a strong Campus Grids team (goals discussed separately)
* Identify and follow up to resolve Production related issues.
* Manage relationships and communications with key stakeholder

Tactics:

* Weekly calls (Production, ET, Operations, …)
* Meetings with stakeholders (phone, meetings, campuses, …)
* Working groups
* Regular monitoring (via Gratia)

Staffing Plan:

40% Dan

50% Rob Q

1. Identify and articulate OSG issues that impact the effectiveness of sites & VOs and lead/coordinate OSG teams to resolve the issues.
   1. Lead weekly Production calls, highlight important issues, and follow up on action items. (Dan)
   2. Work with the User Support, Operations, Software, Security, and Metrics Area coordinators to coordinate activities related to production. (Dan, Rob)
   3. Work with the Metrics Coordinator to monitor the performance of the OSG infrastructure and develop measures and metrics that assess the state of the facility. (Rob)
   4. Analyze the usage patterns and efficiency of resource utilization; use that data to propose improvement plans for the facility. (Rob, Dan)
   5. Provide quarterly reports to the OSG ET on production activities. (Dan)
2. Manage relationships and communication with stakeholders (especially CMS, Atlas, and LIGO) to understand status and issues and communicate them to the OSG-ET, with recommendations if possible.
   1. Maintain effective communication channels with OSG T1/T2/T3 site admins. (Dan, Marco)
   2. Represent the needs of these stakeholders at key internal OSG meetings and communications and escalate priorities as needed. (Dan)
   3. Serve as the OSG Tier-3 Liaison to the US-ATLAS and US-CMS communities; provide support to and represent the needs of Tier-3 communities at key internal OSG meetings and communications and escalate priorities as needed. (Marco)
      1. Provide technical support for Tier-3 and Campus Grid system admins (Marco, Derek)
      2. Update Tier-3 documentation to reflect the RPM system. (Marco)
   4. Include reports on these communications as part of the Production quarterly report. (Dan)
3. Assist the Executive Team in providing guidance to and working with the Operations, Software, Education/Training area coordinators to communicate and facilitate the resolution of issues in the prioritization and planning of activities, assessment of success, and allocation of effort across the areas.
   1. Based on guidance and approval by the OSG Executive Team, lead and coordinate plans to improve the OSG facility. (Dan)
4. Campus DHTC Infrastructure
   1. Identify and work directly with supportive campuses to implement and maintain Campus DHTC infrastructures. (Dan, Marco, Derek)
   2. Serve as a liaison between XSEDE and Campus DHTC infrastructures, working with the XSEDE designated liaison to OSG. (Dan)
      1. Work with the Production Coordinator to coordinate activities between XSEDE and OSG including interfaces on both the OSG and XSEDE side to enable job cross submission. (Marco, Derek)
   3. Create, maintain and use a virtual cluster to test different Tier-3 and Campus Grid configurations. (Marco)
      1. Provide BLAH support and testing for different batch systems ??
   4. Identify resources for and create a small scale Campus Grid and VO frontend for trial, demonstration and training. (It must be easy & fast, e.g. minutes, to get users new accounts.) (Marco – Thoughts on HW for this …?)
   5. Integrate an accounting capability for local campuses to use into the Campus Grids package (Derek)
   6. Implement and test a parallel Campus Grids Infrastructure using SSH for job submission (Derek, Madison team)
   7. Coordinate the chat support system for OSG users and administrators (Marco, need one person from User Support, one or two from Software)
   8. Testing and documentation review for OSG job submission components especially for Campus DHTC Infrastructures (Marco)
   9. Contribute to campus grids program of work to foster OSG spreading at the campus level. (Marco)
   10. Support the Education coordinator in developing material for and working with the system admin workshops particularly in support of Tier-3s and Campus Grids. (Marco, Derek)
       1. Assist with web based synchronous and asynchronous training (Marco)
   11. Assist in the rewriting of documentation to support RPMs particularly as they relate to Tier-3 and Campus Grid documentation (Marco, Derek)