

## **EGI IPv6 VCONF – Friday, June 1 2012 – 10:30 – 11:00 - Minutes and Actions**

*Participants: Barbara Krasovec /ARNES ; Tomas Kouba /FZU; Mario Reale /GARR*

### **Agenda:**

1. Current status of resources and what has been tested
2. Outcome so far
3. How to move on to finalize testing and reporting of workload components

### **Current resources and what has been tested**

Mario: we have committed to start testing Workload Management and InfoSys components of UMD using IPv6. HEPiX IPv6 WG started to test data-management related components, so we keep a complementary approach to theirs. We should provide some feedback to EGI Operations and the Tech Providers on the level of IPv6 compliance of the middleware and operational tools. Today we should try to make the point on where we are and coordinate how to move ahead. We have gLite and ARC under test. UNICORE, dCache and IGE are not currently being addressed. Mid June there's a F2F meeting of the HEPiX IPv6 WG to discuss ( among other things ) possible future integration of the EGI and the HEPiX testbeds. At GARR we will test CREAM CE and WNs

Barbara: In ARNES we're testing ARC. I have set up an ARC CE from the EMI repository. I tested both Torque and SLURM (2.2.7) and they're both not working, it is impossible to get the job sent to the Worker Node. I installed and configured using IPv4, in fact I had both stacks configured on my machines. We have enabled the net.egi.eu VO. We have at ARNES: 1 ARC-UI on a Desktop, 1 ARC CE, 1 Worker Node. I used physical machines.

Tomas: I have been active so far in the HEPiX IPv6 WG, together with a colleague from FZU. We are focusing on gLite components through the UMD distribution. We have VOMS (Dual Stack), gLite UI (IPv6 only), FTS & DPM-SE (Dual Stack), we intend to install a CREAM CE and WNs. We also have 2 instances of NAGIOS for monitoring: one IPv4 and one IPv6 and we keep testing NAGIOS transfers. Also SmokePing has been installed to monitor network latency. We do support both the ipv6.hepixon.org and the net.egi.eu VO. The VOMS server is a mirror of the one at CNAF. I used Virtual Machines using KVM as an hypervisor, we do keep IPv4 and IPv6 traffic separated, the hypervisor machine has multiple net interfaces.

### **Outcome so far**

Barbara: We're stuck with the LRMS issue: the ARC m/w itself is behaving OK w.r.t. IPv6. The problem is to find an IPv6-compliant LRMS. This is a show-stopper so far. Mario suggested to try out also SGE.

Tomas: Besides the globus-url-copy tests OK done within HEPiX IPv6, We verified NAGIOS is OK (it just needs to have IPv6 addressed specified in the proper way, need to check the NAGIOS documentation about it). IPv6 latencies are monitored. Results so far did not present clear show-stopping issues.

Mario: I restarted from scratch my CREAM CE just yesterday starting from reference UMD guide for EGI on [http://repository.egi.eu/category/umd\\_releases/distribution/umd\\_1/](http://repository.egi.eu/category/umd_releases/distribution/umd_1/) . I decided to stick to IPv6-only from the beginning. I stepped into the problem that – despite what claimed – it is not reachable using IPv6 (repository.egi.eu) – I opened a GGUS ticket about it [https://ggus.eu/ws/ticket\\_info.php?ticket=82752](https://ggus.eu/ws/ticket_info.php?ticket=82752) .

#### **Next steps/Actions:**

Mario: let's try to keep an IPv6-only perspective in all respects of testing, including basic installation and configuration , smoke testing and basic functionality. Let's refer to the EGI IPv6 wiki rather than paper documents to report the outcomes of our testing. We need a clear list of components, and a template to report what we find out. Once we have documented everything properly, let's give this info to SA1 and Tech Providers. We'll see how to merge testbed resources with HEPiX if required.

#### **Actions:**

1. Barbara to try SGE as a Local Resource Management system to see if works with IPv6
2. Mario to produce a wiki section with a template including sections to be filled as a test report
3. Mario to report from F2F meeting at CERN discussion with HEPiX IPv6
4. Mario to keep seeking a way to have also UNICORE, dCache and ICE tested
5. Meet again in ~ 2 weeks for updates