

Migrating the WLCG grid monitoring infrastructure from SAM to Nagios

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- **At Current Moment**
 - Calculation of site availability for WLCG Sites done in SAM
- **Aim is to move testing of resources to Nagios**
 - For OPS testing
 - And then for VO testing
 - Availability will eventually be based on these tests
- **SAM to Nagios migration started March 1st**
 - EGEE operations now using Nagios to follow up alarms (based on test failures) and open tickets to sites
- **Here we present the various stages of the migration and their implications for WLCG**
 - Note: **This process will not affect OSG sites at all**

- **Nagios is deployed in production**
 - 11 Regional Nagios instances deployed at CERN
 - Monitoring all EGEE Sites
 - Running OPS probes
 - Equivalency of Nagios results has been shown to existing SAM probes
 - EGEE Regional Operations team and sites following alarms based on Nagios
- **SAM is also in production, and still executes OPS tests**
 - But these will not raise alarms on failure and will not be followed up by operators

- **Availability computations**
 - Parallel computations based on SAM & Nagios probes
 - Equivalent metrics for CE, SRMv2 & sBDII
 - Using same algorithm
- **Official availability reports for March will have no change**
 - Still calculated based on SAM probe results
- **We will also generate availability reports based on Nagios results**
 - These will be used for validation of Nagios for availability by sites and MB

- **In parallel we will start validation of Nagios at regions**
 - ROCs are deploying their Nagios instance
 - This is being validated against regional instance running at CERN
 - Once validation is complete, official tests for that region will come from the ROC Nagios
- **CERN continues to maintain role of running central databases and availability calculation**
 - This is also maintained during EGI

- **Availability reports for April could be based on Nagios**
 - Depending on results, after MB sign-off on the Nagios reports for March
- **SAM will continue to run OPS tests**
 - As a fallback in case of major problems
- **We plan to turn off SAM for OPS at the end of May**
 - If everything goes to plan
 - We will continue to run SAM for VO tests as long as necessary

- **EGEE operations now using Nagios to follow up alarms**
- **WLCG Availability stays unchanged**
 - Until validated and approved by MB
- **VOs migration to Nagios testing in parallel**
 - Active participation in this is needed from VO SAM contacts
 - First VO availability reports for evaluation in May/June

Questions?