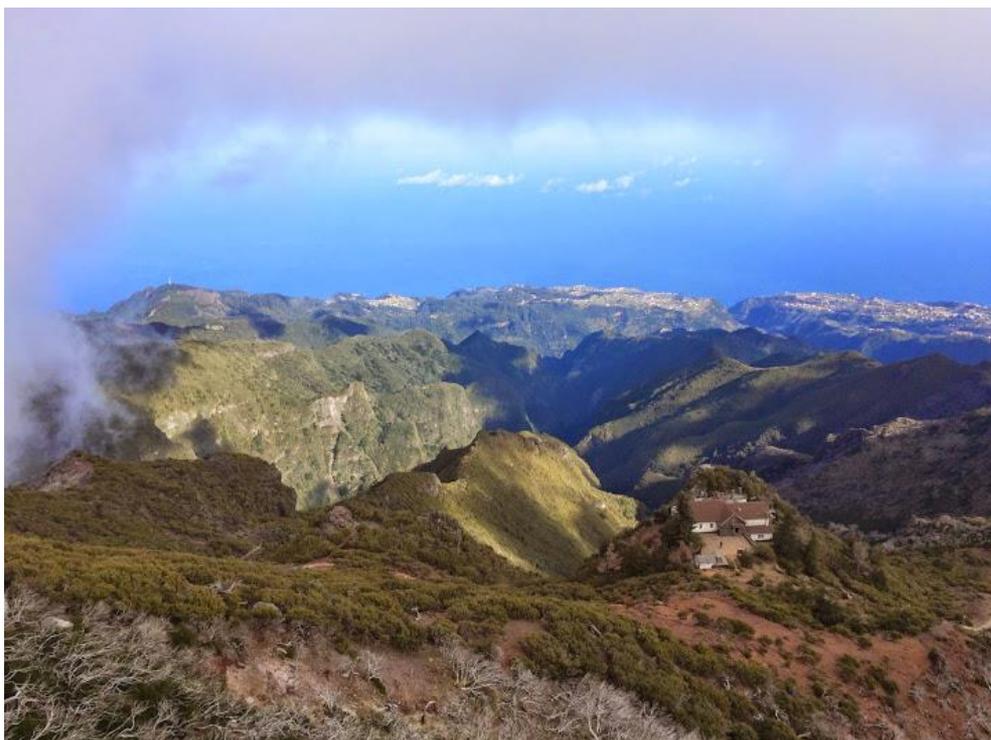


FedCloud Monitoring Status and Plans

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- Current status
- Interfaces monitoring
- Future work

Current Status



- Central SAM Nagios instance
 - cloudmon.egi.eu
 - maintained by NGI_HR
 - OCCl interface requires RFC proxies
- Current status
 - 51 hosts
 - 138 services (88% OK)

- SAM Nagios raises alarms
 - followed by ROD teams
- APEL, BDII, OCCCI and CDMI tests
- New tests follow procedure
 - <https://wiki.egi.eu/wiki/PROC06>

- FedCloud profile
 - CLOUD-MON
 - <https://mon.egi.eu/poem/admin/poem/profile/29/>
- A/R calculations
 - based on the CLOUD-MON profile
 - used in production since October
 - follow the same rules as grid sites

Interfaces Monitoring



- Probe provided by Boris
- Based on rOCCI-cli
- Extended with VM cleaning
- Future work
 - new requirements?
 - OCCI 1.2 features?

- Work (still) in progress
- Possible solutions
 - “miniproject” probe + python library (<https://github.com/stoxy/>)
 - CDMI test framework (<https://github.com/grnet/cdmi-testsuite>)
 - new lightweight CRUD test
- Test will be added in February

- Probe based on APEL web page
 - <http://goc-accounting.grid-support.ac.uk/cloudtest/cloudsites2.html>
- Future work
 - align with the probe for grid sites (org.apel.APEL-Pub)?
 - new requirements?

- Specific service type
 - eu.egi.cloud.information.bdii
 - remove it and test Site-BDII
- Cloud specific tests
 - interface specific tests (OCCI, CDMI)
 - move to GLUE2 validator

- Central AppDB service
 - service type eu.egi.cloud.vm-metadata.appdb-vmcaster
- Probe provided by Marios
 - initial version had dummy image
- Extended with actual test image
 - TinyCoreLinux
 - file within image automatically updated every 6 hours

- Site VM Catcher service
 - service type eu.egi.cloud.vm-metadata.vmcatcher
- BDII-based probe
 - in progress
 - checks if the test image is properly updated
- OCCI probe modification
 - use the vmcatcher test image

- Three service types in GOCDDB
- TCP-based checks added
- Specific probes provided
 - VMDIRAC and COMPSs
- Integration delayed
 - requires manual installation of probes and frameworks

- Probe provided by Boris
- Basic check of Perun API
- New requirements?

Future Work



- Full integration with NGI SAM Nagioses or keep the central instance?
- RFC proxies support campaign timelines
 - alternative AuthN methods?
- ARGO deployment plans

- Current Status
 - SAM supports VOMS proxies
 - production sites monitored with ops VO
- Alternatives
 - basic username/password?
 - eduGAIN?
 - EGI SSO?

- Nova interface
 - test equivalent to OCCCI?
 - **lots** of Nagios probes out there
- User portals
 - “status page” approach
 - URL which performs internal checks
- Other examples?

Thank You!

