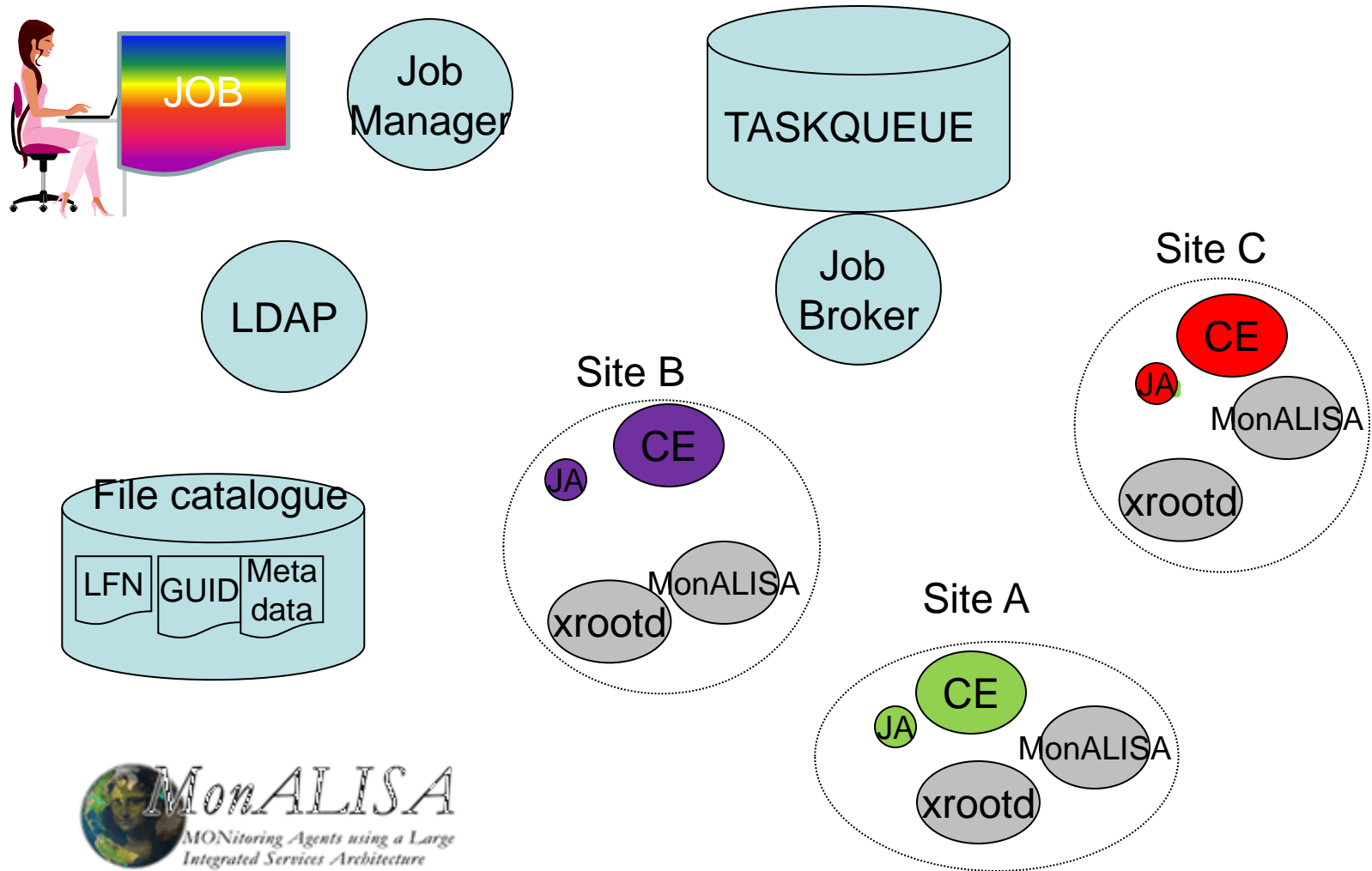


AliEn site services

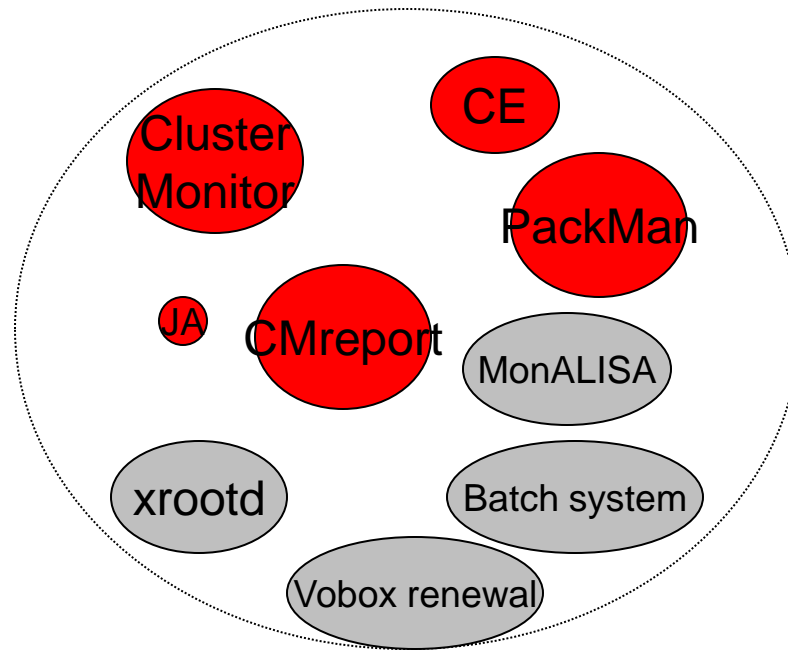
ALICE T1/T2 workshop

24-January-2011

A. Abramyan, L. Betev, D. Goyal, A. Grigoras,
C. Grigoras, N. Manukyan, J. Porter, P. Saiz,
S. Sankar, S. Schreiner



Site C



- Site admin howto: <http://tinyurl.com/7ae9gq2>

The screenshot shows the AliEn website interface. The top navigation bar includes links for 'About', 'Development', 'MonALISA ALICE Grid Monitor', 'ALICE Collaboration', and 'Contact & Team'. The main content area is titled 'AliEn Site Howto' and contains a list of links:

- Exclusive SEs
- Install LCG VO Box
 - Debug
 - Manage Proxies
 - Configure LDAP
 - 64 Bit VO Box
- Install AliEn Site
- Install Xrootd

In the left sidebar, the 'Developer' link is circled in red. A red box with a pointer to this link contains the text: 'Limited time offer: Become a developer for free*!!!'

- Modified by central team

The screenshot displays the AliEn LDAP Server interface. On the left, a tree view shows the hierarchy: o=alice, dc=cern, dc=ch (8) > ou=Config > ou=Services (4) > ou=CE (1) > name=CREAM. The main panel shows the configuration for the selected entry, with the following fields:

- accountName**: Bari (add value)
- cachedir**: /tmp/ALICE/cache (add value) (required)
- country**: Italy (add value)
- domain**: ba.infn.it (add value) (required)
- latitude**: 41.107594 (add value)
- localconfig**: overwrite (add value)
- location**: Bari (add value)
- logdir**: /home/alicesqm/alien-logs (required)

- Setup xrootd storage
- Define it in ldap
 - Hostname, port, path, space
- Check if we can write
 - `alien -exec add myTestFile /etc/hosts alice::cern::se`
- Check if we can read
 - `alien -exec get myTestFile`
- Clean up
 - `alien -exec rm myTestFile`
 - The last command does not clean up from SE

- Handle requests from the CE/JobAgents at site
 - JA configuration/heartbeat/number of jobs
- **alien StartMonitor**
- If dead:
 - Jobs don't publish heartbeat
 - They might turn into Zombies
 - No more job agents being submitted
 - More load on central services

- Check if slots available at site & submits JobAgents
- alien StartCE
- If dead:
 - No new JobAgents will be sent to the site
- If you want to test by hand:
 - alien login –exec request

- Send messages from ClusterMonitor back to central services
- alien StartCMreport
- If dead:
 - Long jobs will turn into ZOMBIE -> EXPIRED

- Installs & configures software packages

- ~~alien --exec packman~~

In AliEn v2-20,
service disappears
Functionality still available

- If dead:

- Site would ~~not be able to~~ install packages

- How to test:

- alien --exec packman list
- alien --exec packman listInstalled
- alien --exec packman install AliRoot::v5-02-18-AN

- Collects all monitoring information from site, aggregates and publish summaries
- Restarts other services
- Functional tests...

- alien StartMonAlisa

- If dead:
 - Red dot on the map!
 - No Job information

- Check configuration:
 - `cat $HOME/.alien/etc/aliend/ALICE/startup.conf`
 - `AliEnUser=alicesgm`
 - `AliEnServices="Monitor PackMan CE MonaLisa CMreport"`
 - `AliEnCommand="/home/grid/alicesgm/alien/scripts/alien"`
- `aliend (status | start | stop)`

- Total number of running jobs
- Status of central services
- Alarms
 - For all sites or a particular subset
- Link to LDAP
- <http://alimonitor.cern.ch>

AliEn Repository 23117 Running Jobs Open issues (57) Central Services Xmas production: 50% cpu cost offered by Santa. HoHoHo! Admin Section

Services (18) Proxies (8) Storage (31) SAM (0) Other (0)

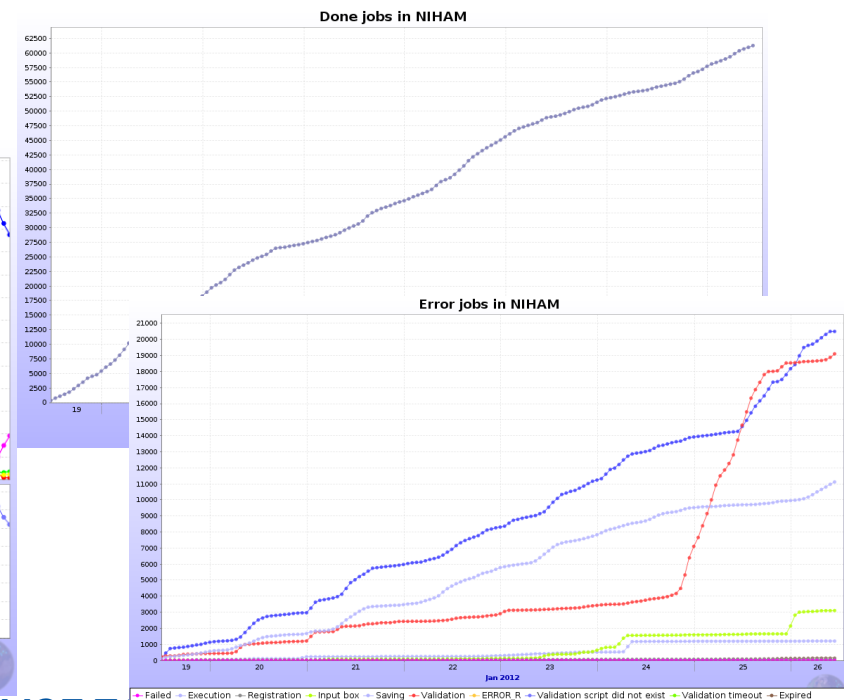
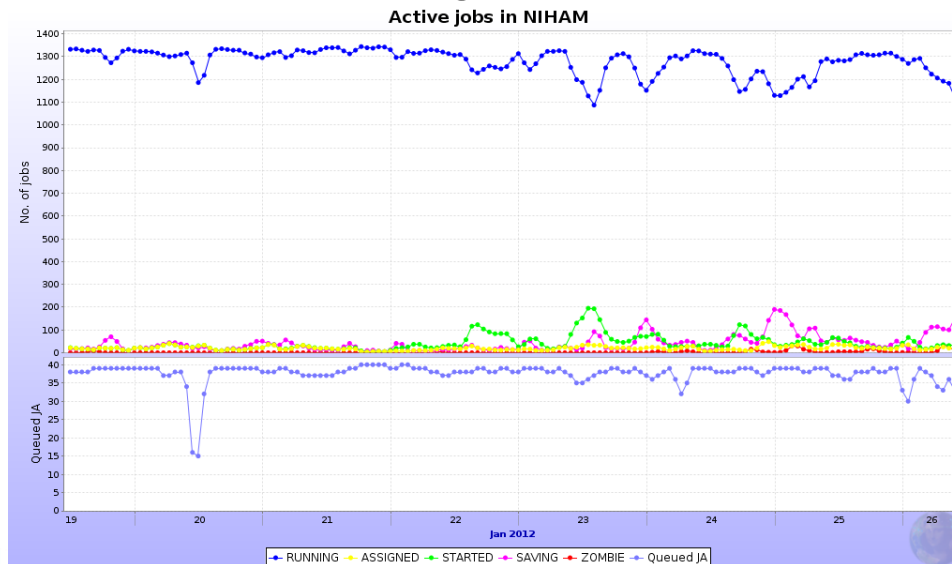
- GSI : Proxy Server has expired
- JINR : Proxy Server has expired
- JINR : Delegated proxy has expired
- Wuhan : Alien proxy has expired
- PNPI : Delegated proxy has expired
- UNAM : Delegated proxy has expired
- UNAM : Proxy Server has expired
- ISS_LCG : Alien proxy has expired

for ALICE

ALICE Reports Events XML Feed **Firefox Toolbar** MonaLisa GUI

Map Satellite Hybrid

- Subscribe to notifications:
 - <http://alimonitor.cern.ch/xml.jsp>
- Check no alarms for the site
- Check Running jobs, finished jobs, queued agents
 - <http://alimonitor.cern.ch?638>
 - Comparing with other sites



- Check log files:
 - Where are the logs?
 - `alien -exec echo LOG_DIR`
 - Configuration: `LOG_DIR = '/home/grid/alicesgm/alien-logs'`
- Check documentation:
 - <http://alien.cern.ch/>
 - Some areas are not up to date
 - But you might change that!
- Ask the community
 - alice-lcg-task-force@cern.ch

- How to manage all the site services:
 - AliEn: ClusterMonitor, CE, CMreport, (PackMan)
 - Non-AliEn: Storage, Local Batch, proxy renewal
- Documentation:
 - <http://alien.cern.ch>
 - Help us improve it!
- All error messages written to log files
- Very responsive mailing list
 - alice-lcg-task-force@cern.ch