Automating ATLAS Computing Operations using the Site Status Board

ATLAS Site Status Board (SSB):
Aggregation of monitoring information for > 80 ATLAS sites
Status of all the ATLAS Distributed Computing Activities
Evaluation of Efficiency of ATLAS Sites and Services
Historical Views, ATLAS Site Topology, Sensors and Alarm System

SSB Provides Mapping Mechanism among Monitoring Sources
ATLAS Site Topology
Mapping Between Naming Conventions
Used in:
• Grid AGIS ATLAS Grid Information System
• Data Distributed Management
• PanDA System

Alert System
Alerts Send to:
• Cloud Squads
• Site Administrator
• Service Responsibilities

About:
Service Degradation, Taken Automatic Actions
Closed 1 in 1

Site A
• Site in progress Date: 2012-04-16 Site: A jobs failing with "Too little space left on local disk to run job"

Site B
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site C
• Site on hold Date: 2012-03-30 Site: C jobs failing
  entered in production activity as of April 08 08:31 UTC

Site D
• Site on hold Date: 04/08/2012 Site: D jobs failing
  entered in production activity as of April 08 08:31 UTC

Site E
• Site on hold Date: 04/08/2012 Site: E jobs failing
  entered in production activity as of April 08 08:31 UTC

Site F
• Site in progress Date: 2012-03-11 Site: F jobs failing with "Too little space left on local disk to run job"

Site G
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site H
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site I
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site J
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site K
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site L
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site M
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site N
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site O
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site P
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site Q
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site R
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site S
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site T
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site U
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site V
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site W
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site X
• Site in progress Date: 2012-04-09 Site: X jobs failing with "Too little space left on local disk to run job"

Site Y
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Site Z
• Site in production Activity as of April 21 09:32 UTC
  2 failed/normal/started in production activity as of April 21 09:32 UTC

Historical Views

Automated Actions
- Reduce Manpower Costs for ADC Operations
- Automate Routine Action Taking
- Have the Generic Prototype for Automatic Exclusion/Recovery

Implementation
The Switcher
Exclude production or analysis queues of PanDA for a CE or SE downtime. Recovers after the downtime finishes/vanishes.