SAAB - ADCoS Experience

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SAAB In Production

- SAAB (Storage Area Automatic Blacklisting)

- https://twiki.cern.ch/twiki/bin/viewauth/Atlas/StorageAreaAutomaticBlacklisting

- in production since last Wednesday

- tests running on all site space-tokens

- only 'Put' tests at the moment: 'u' (upload) and 'w' (write)

- Monitoring Links:

http://dashb-atlas-ssb.cern.ch/dashboard/request.py/siteview#currentView=testPut&highlight=false

http://dashb-atlas-ssb.cern.ch/dashboard/request.py/siteviewhistorywithstatistics?columnid=10074

- Contacts: atlas-adc-autoexclusion@cern.ch

SAAB Performance

- Experience during almost the week period in production is quite positive

- All the blacklistings were done for a reason, correlated with the observed site issues

- In the SAAB history dashboard the transitions between green-yellow-red and back looked quite reasonable, no sporadic fluctuations, so overall test machinery looks reliable/robust; as well as compliment to most of the sites being quite stable

- With more experience we may do more fine tuning of the SAAB algorithm for the blacklisting/whitelisting timing to have possible improvement in overall efficiencies

- In several occurrences SAAB had short "outage", white/grey/brown color status for all site end point. There is protection against any action for those cases, with notification to SAAB developers and ADC auto-exclusion mailing list.

- Sometimes refreshing of the dashboard page may take time, sometimes will be stuck at the Loading state, but overall quite nice and reliable

Next to Come

- When 'Get' and 'Del' tests will be ready for production? Any showstoppers ?

- Right now a bit confusion for shifters and sites, as in case of a problem, only w/u part is blacklisted, and after a while there is false impression that site is recovering as a destination, but at the same time looks like it is still failing as a source.

- Also the expert shifter has kind of a dilemma, leave the site partially (u/w) blacklisted, or manually do the complete blacklisting

- So desirable to have all the 3 type of tests in production soon

Blacklisting Tags

- SAAB related tags in the Centralized Exclusion bourricot page: SRMWrite, SRMRead, SRMDel

- At the moment only SRMWrite is active

- Other active tags at the moment: AGIS, manual, DISKSPACE

- Observation: tags can overwrite each other. For example, SAAB tag may overwrite AGIS downtime tag, and vice versa. Not desirable, can be confusing!

- Can we accommodate to show more than one tag?

Shifter actions

- After automatic blactlisting and notification (later about that), wait two hours (timing to be agreed) for site feedback/fix, and if no progress then put a ggus ticket

- Consider an option of manual whitelisting (by expert shifter, AMOD), not reversible by SAAB. May be needed in some exceptional cases.

Notification to Shifters

- No SAAB notification email to be sent to general shifter list

- Instead an Incident/History page (text lines extracted from SAAB log file), similar to panda Incidents page

- This will also be helpful in investigating past actions, when exact blacklisting/whitelisting information may not be as easily available from the dashboard

- Proposed format:

  'DATE TIME A,B,C DDM endpoints have been blacklisted ...'

- More detailed information on error message type may be requested by site admins.

Notification to Sites

- Probably it's reasonable to send an automatic notification to any site when it is blacklisted/whitelisted

- Propose this scheme as a default/starting point

- Then any site can opt out if for some reason they don't want to get blacklisting/whitelisting notification

- What about notification to cloud support, maybe on request?

Conclusion

- SAAB in production with w/u test works fine

- Will be nice to have r/f/d tests in production as well

- Finalize some of the procedures (ticketing, notifications) and monitoring tools