

WURM, 07-10-2024 13:00 CEST Strategy WURMng Marjolein's office

Present: Paul, Wybren, Bob, Des, Aard, Mark, Marjolein

Plenary announcements:

[Marjolein: thanks all who participated in the ASTRON/JIVE/NOVA Open Day yesterday; as a visitor enjoyed it a lot! Very behind on the official R&O talks: apologies, but likely not possible before ~halfway November. NWO-I mail sais: the R&O procedure/cycle is going to change anyway – but that's all I've heard about it.]

[Mark: JanWillemS (NRAO): anaconda licensing scheme changing – using default channel for updates implies subscription/license fees for institutes >= 200 people. JIVE likely not impacted, but probably better to avoid ana-/miniconda and update recipes and e.g. pySCHED documentation; miniforge/minimamba use conda-forge channel which is still OK.]

Going over high-level tickets:

#824: EEE upgrade – no change: O/S installed but won't boot

#1074: cost/benefit analysis of tape library: access granted but no feedback received yet

[Marjolein: MartinL conducted in-depth analysis of power usage during correlation – upload to ticket?] Yes.

=> Action Marjolein: upload Martin's document+pictures

[Wybren: "autotune" for tuning code to be be more efficient? JoerivL claims 2.5x more efficient]

[Aard: could consider for GPU code in RADIOBLOCKS]

=> organise side-meeting about this

#1077: no old stuff on network: ongoing, do JupyterHub this week, h-nodes, map.jive.eu, after that o-14.

[Paul: suggestion to keep planning in ticket, and/or use Zabbix inventory to find/select machines with old O/S]

#1078: use Zabbix for internal monitoring: tried to add auto-detection of machines but then end up with duplication of already existing entries (even though the system knows there's one already – renames duplicate)

#1081: alt weighting scheme in fringe fit: Jungwan0 did tests and uploaded results to ticket – follow-up at VLOPS

#1080: new normalisation scheme: waiting for Gabor0, who's #UNAVAIL this week

#1082: phase sign changeover: [Marjolein: ready to go, need a date]

=> Action Marjolein: bring up at VLOPS tomorrow

#1093: containers vs VMs? Largest dfference is no installation required, Ansible playbook for containers available but far from push-button.

=> Action Wybren: remove from active project list but keep ticket open

#1102: centralised authentication: next step = public Keycloak instance.

#1103: svn replacement with git: sfxc subticket was set to "resolved" but not "closed" yet

=> Action Aard: close ticket so high-level "project" can be closed

#1118: archive script development: DOIs ready to execute, need discussion on how to handle recorrelation? New DOI after recorrelation or not? May depend on /when/ re-correlation is requested.

=> Action Des: write up/document DOI procedure to be presented to VLOPS community

#1204: database situation: MySQL community edition still free to use and is open source, so if ORACLE push too hard will likely be forked (again). Deemed important to get a matrix of tools/applications + their db requirements.

[Mark: maybe not try to force all db's to be on the same host, but let each application use/choose the best db system for it?]

[Paul/Des/Marjolein: backups and DBA overhead would be really high, for specific applications has to be done like this (e.g. evn-vo can only run on Postgres b/c of pg\_sphere()) but try to minimise; also cross-db queries need to be possible for extracting derived information from our systems.]

#686: archive hardware migration: need to plan a date at tomorrow's VLOPS

AOB:

[PaulB: e-VLBI start today shows unwieldy list of "machine X cannot do Y" and "machine A cannot be used for B", making it really annoying to configure the experiment. How about:

- adding memory such that all fb's have 64 GB minimum; and
- fix packet-loss issue by looting sfxc-[efgh] Intel X710 cards and swap 'm with cards in fb's that have small-packet-issues.]

Yes, very good idea!

[Marjolein: over the last few months integrated another UDP-based protocol, Secure Reliable Transport (SRT) in jive5ab; was able to successfully test between HartRAO and JIVE last Friday; library seems (much) more reliable implementation than UDT; performance seems artificially held back; very sensitive to MTU size: jumbo frames = much more throughput (more than the new/old MTU ratio improvement)]