

Kemp, Yves HH



NAF special incidences (upgrades) since last NUC

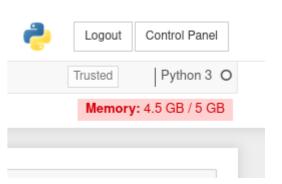
Some changes

- MFA now default for access to the NAF except using FASTX
 - Currently runs FASTX2 FASTX3 was supposed to do the trick but MAXWELL prooved it does not
 - FASTX4 should be the solution but needs to be tested and deployed
- MFA introduction for JUPYTER notebooks turned out to as a full upgrade of the whole setup
 - Took a bit longer than expected
 - A faulty user-map on the failover JHUB was tricky to find as the source of some on-going problems for few UIDs and took 2 days to solve
- EL9 now available in the NAF
 - 2 of the new purchased machines made it into the pool as 'test-worker' and are doing good so far
 - Syntax: Request_OpSysAndVer = "RedHat9"
 - YES that is new instead/alongside with Requirements = (OpSysAndVer == "RedHat9")
 - Syntax in general will be more homogenic in the future

NAF Software

Next generation JUPYTER notebooks

- Most users are not aware of memory limits and their actual memory consumption
 - Notebooks get vanished when consuming over the 10GB memory limit
 - pip jupyter-resource-usage & kernel restart introduces a 'memory-meter'
 - Will be introduced in the default kernel by the end of the week
- Future notebook proposals
 - Dropdown list for fixed core and memory e.g. "2 core/10GB", "2core/14GB", "4core/20GB"
 - + a complete new class of notebooks with free core/mem configuration possible
 - Will not run in dedicated slots hence start-up will be a lot slower and depending on other workload of the user
 - Therefore need to tweak the timeout of the web-interface and make clear that these do not come as 'interactive'
 - Maybe e-mail notification "Your notebook is now ready"
 - Might be partly implemented for test users (complainers) on a short time scale



NAF Software

Next generation JUPYTER notebooks

- From our experience will not solve ALL problems as users that run into the 10GB limit now will consume 400GB memory as easy and therefore tear the next bar easily without being aware of it
- DUSK/SPARC still on the radar but currently difficult to sell to the user as being rather bulky tools

NAF EL9

Upgrade to EL9 due by mid/end of the year

- Some of the new workers will be available in the pool (depending on the usage)
- WGS with EL9 available for all groups
- "NAF 3.0" will be a separate setup/pool, EL9 based, latest CONDOR stable version, new JUPYTER setup, some syntax simplifications, complete configuration rewrite
- EL9 WGS will point to the new pool once it is up-and-running
- Migration will take place on per-scheduler base

NAF Storage

GPFS/DCACHE

Nothing here