

ROG & Linux Operating System news

CTTB ICF #15 2024-10-31

<https://indico.cern.ch/event/1465183/>

Wouter Koorn on behalf of
BE-CSS-ISA

Remote Operation Gateway

- Migration to RHEL 9 completed in September 2024
 - Thank you for the rog9 beta testers. Smooth migration.
- EoL: CC7 session provided until the end of 2024
 - Limit our exposure to CC7 on Internet exposed services.
 - The plan is still to shutdown CC7 servers by January 2025
 - Please contact us if it can be a problem to evaluate alternative solutions (e.g: cs-ccr-cc7)
 - Around 7 daily users since September 2024 migration
- YETS: Only upgrade the OS to the new snapshot, no other change this year.
 - Sessions will be restarted on the 6th of January to move to latest kernel/OS

Security: Multi-factor Authentication on the TN

- CERN Audit recommendations **will** be implemented (ED decision)
 - R-7.1 Complete the MFA rollout for all required users and use cases
 - R-7.2 Design & implement Controls to implement the Principle of Least Privilege
- ROG supports 2FA since the beginning
- To be enabled on BE-CSS management machine in 2024
- CERN IT Ixplus/Ixtunnel in 2025 followed by cs-ccr-dev[1-4] machines / VPCs
- Targeting highly critical servers in 2025 (Affected teams will be contacted in due time i.e : GPN exposed WinCC OA servers)
- Window Terminal services - solution studied by IT
- Several security issues have been identified on the Technical Network...
- ... ongoing review/audit of the NFS servers
- ... access lists need to be reviewed

Security: Access lists for interactive logins

- Virtual machines
 - VPC migration to RHEL 9 almost finished - Most of CC7 VM deleted
 - Restrict interactive login to main users / responsible users from the Network DB
 - Scheduled for deployment on the **4th of November 2024**
- Backend servers & Technical Consoles
 - Review ACLs and restrict interactive login to main users / responsible users when possible
 - Ongoing for BE-CSS servers, we are in contact with other teams
- Front-ends
 - Ongoing discussion
 - Restrict access to main users / responsible users / support teams rather than ACC-all egroup
 - Targeting the new Debian OS, no change for current Front-end offering

Operating System & Kernel updates

- Back-ends, Technical Consoles, and Virtual Machines
 - YETS: Moving to RHEL 9.4 kernel and yearly updates
 - [Release notes](#)
- Front-ends
 - CC7: no kernel update because... concentrating our (and your) efforts to provide Debian 12 as a production platform
 - Some OASIS FECs will be moved to the new OS during YETS
 - Call for volunteers ! Please contact Federico Vaga
 - Yearly kernel patching will resume with Debian OS, betting on automation to remove the pain points
 - Yearly CC7 security patches will be applied to the image and FEC rebooted during YETS
- Container Images
 - New images aligned with the RHEL9.4 OS
 - Archival of all CC7 base images - A new CC7 image will be produced with the latest version of repo since EoL - no support will be provided after 2025-01-01 - Detailed plan will be communicated to acc-containers-users@cern.ch and other communication channels.