

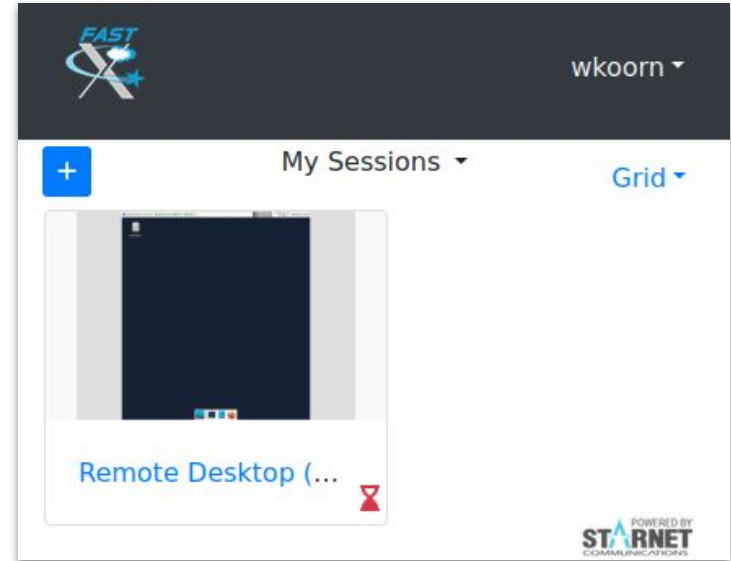
ROG: Remote Operations Gateway

Wouter Koorn (BE-CSS-ISA)

CTTB Industrial Controls Forum - #14
Web Access for Industrial Control Systems

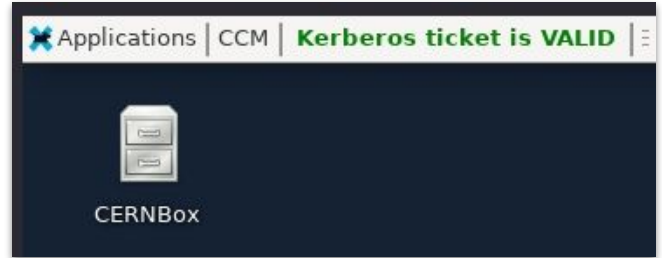
Overview

- <https://rog.cern.ch>
- Remote desktop into the TN
 - From both GPN and outside CERN
 - 2FA required
- In production since 2021
- ~1000 users over the last year
- ~200 concurrent sessions



Further details

- Non-persistent home directory
- Access to CERNBox (EOS) / AFS / NFS
- No internet access
- Operational OS configuration
- Shared OpenStack VMs
 - Enough resources
 - Occasional IT intervention



Remote Operations Gateway on the TN - PSO

Thomas Oulevey

November 2020

1 Purpose

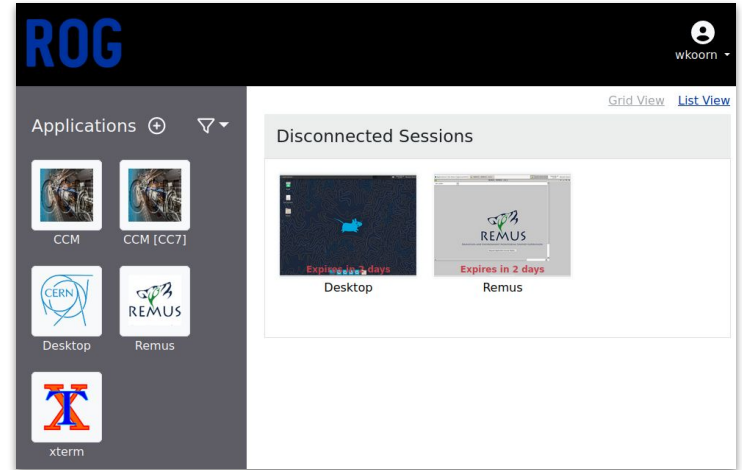
1. Ensure the Accelerator sector users can connect easily to the CERN Technical Network (TN) to check and/or debug pressing issues (typically impacting operation);
2. Ensure the Accelerator sector users can connect to the TN with a modern, secure and easy to use remote access application (simple URL from the browser).

New version: ROG9

- RHEL9 operating system
- Available to try at rog9.cern.ch
- Will be promoted to rog.cern.ch
- Windows and Mac desktop client
 - **Available but currently not supported**
 - Can offer better performance

Live demo...

Known issues: copy-paste on firefox & multi-window mode



Future ideas / plans

- Sharing sessions
- Desktop client support (including linux)
- Potential replacement of VPC use-cases
- FastX4 on Kubernetes

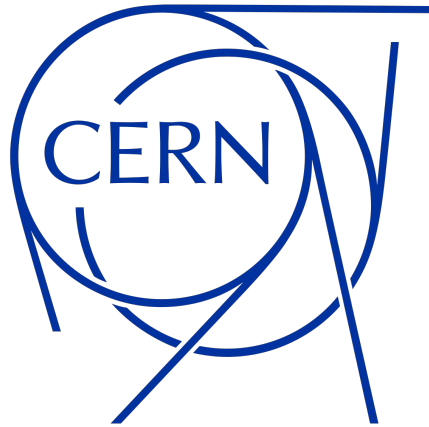
Discussion

- Questions?
- Requests?
- Feedback?

Docs - ROG7: <https://confluence.cern.ch/display/ACCADM/Quickstart>

Docs - ROG9: <https://confluence.cern.ch/display/ACCADM/ROG9+Quickstart>

Contact: rog-support@cern.ch



ROG7 -> ROG9 Full Changelog

- Bookmarks are now called Applications
- RHEL9 is the default operating system for all applications
 - Only one CC7 application left: "CCM [CC7]" until YETS 2024
- No more limit on max sessions per user (FastX bug)
- Sessions expire after 2 days disconnected
- New theme
- Performance settings presets:
 - LAN Graphics: High resolution graphics with high bandwidth
 - WAN Graphics: High resolution graphics with low bandwidth
 - Text & Coding: Optimized for typing and text
- Desktop client support on Windows and Mac, Linux client still broken