



1st Linux Future Committee

2021-02-17

Agenda

- Mandate
- Existing CentOS Linux 8 systems at CERN: Short-term plan
- CentOS Stream 8 at CERN: current status
- Finding commonalities and Reviewing concerns

Mandate

“To provide a structured working group with the focus of:

- Reviewing scenarios*
- Understanding impact on current Linux usage*
- Providing input on future roadmaps*

for a Linux operating system that satisfies the needs of the CERN community”

Existing CentOS8 systems at CERN: Short-term plan

Provisional Short-term: **Now (originally 21.01.2021) to 01.06.2021**

- Support CentOS Linux 8
- Provide CentOS Stream 8 repositories on linuxsoft.cern.ch
- Provide procedure to convert existing CentOS Linux 8 machines to CentOS Stream 8
- Update `it-puppet-module-osrepos` to support the management of CS8 repositories on puppet managed hosts
 - By default, the module will configure CentOS Linux 8 repositories
- Docker and OpenStack images for CentOS Stream 8 to be released
- Start “Linux Future committee” meetings

CentOS Stream 8 at CERN: current status

- CentOS Stream 8 repositories:
 - <http://linuxsoft.cern.ch/cern/centos/{s8,s8-testing,s8-snapshots}>
- OpenStack image: “CS8 TEST - x86_64 [2021-02-16]”
- Docker image: gitlab-registry.cern.ch/linuxsupport/cs8-base:latest
- Koji build roots: Coming soon
- Upgrade path from CentOS Linux 8 to CentOS Stream 8
 - Puppet managed: Coming soon
 - Non puppet managed: Coming soon

Finding commonalities and Reviewing concerns

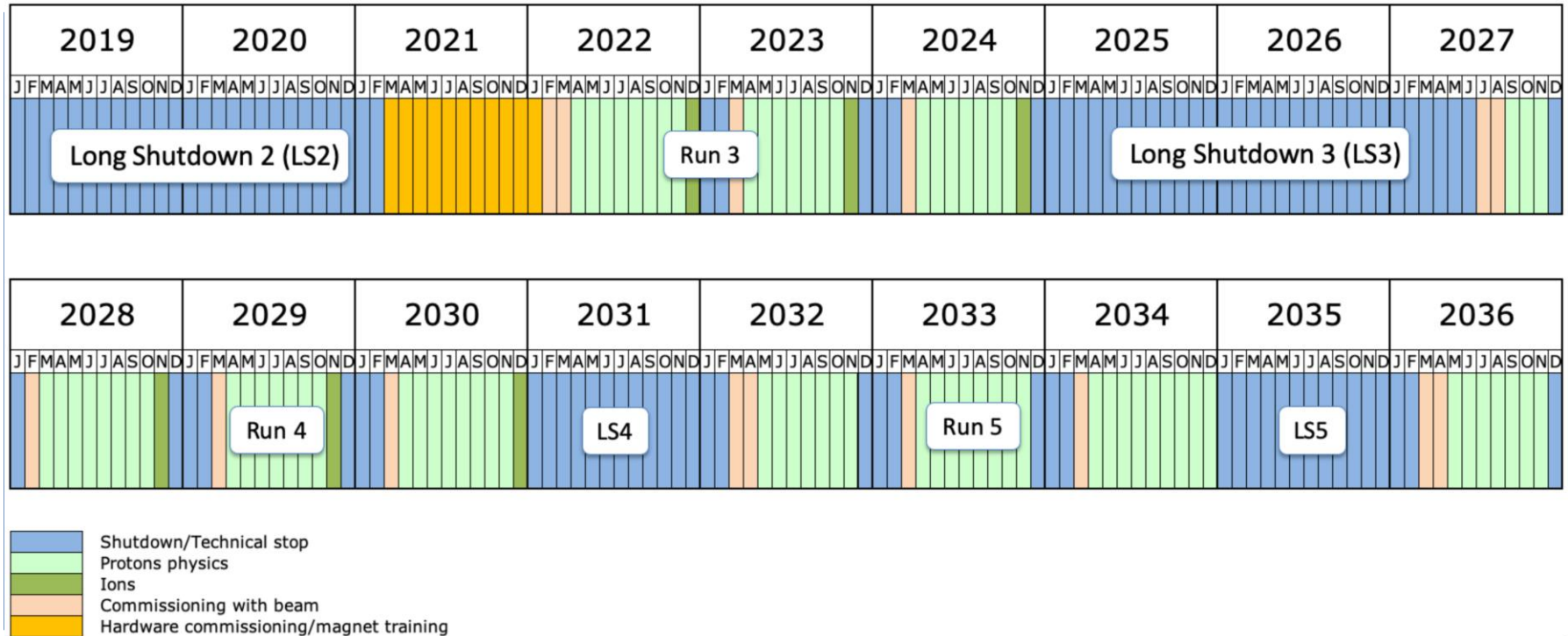
- It's not feasible to change Operating System during Run3 (ATLAS online, ALICE online, NA62, “everyone?”)
- CC7 End-of-Life occurs during Run3 (ATLAS online, NA62)
- “Future Linux” is required to have support for Oracle clients (ALICE DCS)
- “Future Linux” for post Run3 needs to be clarified ASAP to facilitate planning (ALICE online, BE-ICS)
- RedHat kernel is too old to support new hardware (BE-CEM-EDL)
- RedHat provided tools, libraries, compilers missing or old (BE-CEM-EDL)

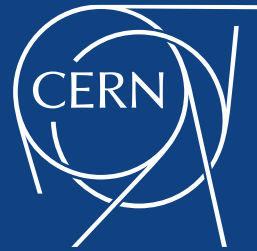
Reference: <https://codimd.web.cern.ch/PEC6BttkSNqSHn-FLb0qaQ#>

Reminder of EOLs

- CERN CentOS 7 (CC7) - Supported until 30.06.2024
 - Note: The security team has already stated that they will "tolerate" unsupported machines (the owner would assume all responsibility) in the technical network until LS3
- CentOS Linux 8 (C8) - Supported until 31.12.2021
- CentOS Stream 8 (CS8) - Supported until 08.2024
- RedHat Enterprise Linux 7 (RHEL7) - Supported until 30.06.2024
 - ELS (Extended Life Cycle Support) – EOL not currently announced
- RedHat Enterprise Linux 8 (RHEL8) - Supported until 31.04.2029

LHC Schedule





www.cern.ch

