

OSG-LHC Timelines

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Enterprise Linux 9

- OSG Software Team has laid the initial groundwork for building EL9 packages
 - Aiming to start building packages this month
 - Targeting the next 1-2 months for packages available in testing
- Default crypto policy on EL9 has caused issues for SHA1-signed Certificate Authorities (CAs)
 - IGTF is coordinating with smaller organizations to re-sign CAs
 - Larger providers (DigiCert) may be more of a challenge
 - OSG investigating workarounds here:
<https://opensciencegrid.atlassian.net/browse/SOFTWARE-5365>

HTCondor Software Suite (HTCSS)

- HTCondor 10.0.0 (stable) and 10.1.0 (feature) have been released upstream;
 - Not yet available in OSG Yum repos
 - HTCSS dev team assures us that HTCondor upgrades would require minimal changes, if any
 - We would *really* love testing feedback
- HTCondor-CE 6 expected soon™
 - Minor changes, should be a no-op if we did it right
 - HTCSS has discussed matching HTCondor-CE and HTCondor versions

HTCSS + EL9

- Enterprise Linux 9 comes with cgroups v2, which is the most reliable way to ensure jobs stay within resource limitations
- Major changes in HTCondor-CE not expected for EL9

Version	EL9 support?	Release Date
10.0.x (LTS)	No	September 2022
10.x.y (feature)	Yes*	* Starting with 10.2.0, targeted Dec 2022
11.0.x (next LTS)	Yes	Targeted August 2023
11.x.y (next feature)	Yes	Targeted August 2023

HTCSS Timelines*

December 2022	Release of HTCondor-CE 6 and HTCondor 10.2.0
March 2023	End of upstream support for HTCondor 9.0.x (i.e., no GSI support)
August 2023	Release of next HTCondor LTS
Fall 2023	Release of next HTCondor feature series
June 2024	EL7 EOL

* Upstream timelines should closely match OSG releases assuming testing goes well

Token Transition

- Storage tokens already well supported by site services
 - HTCondor 10.0.x+ supports X.509 proxy delegation with OpenSSL (instead of GSI libraries)
 - XRootD 5+ also supports X.509 proxy delegation with OpenSSL
 - Compared to the 3.6 transition, this one should look more like a ramp and less like a cliff
- WLCG token transition timeline
<https://zenodo.org/record/7014668>

Strategic Plan

- Working on the OSG-LHC strategic plan, looking at the next ~five years
- Where can we help and when?
 - ARM testing in the next ~2-3 years
 - Ensuring a robust OSG container registry, CVMFS integration
 - Rootless containers
 - Topology improvements?
 - Kubernetes community building and training

Questions?

- Ping us on the IRIS-HEP Slack
- Reach out in #software on the OSG Slack
- Send us email at help@osg-htc.org

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