Compute4PUNCH Status Report

PUNCH4NFDI General Meeting 2024 - Bonn

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Status 2024

HTCondor using OIDC access tokens in production mode

- Used by PUNCH and Darwin experiment

- Ongoing deployment at Nikhef Compute Center

- Improvement : Possible to use Producer outside HTCondor for automated job submission

    Specific HOLD status message when access token is responsible

- RPMs available for RHEL8 and RHEL9, DEB for Debian 12

- Deployment via RHS and Puppet

- Pull Request to HTCondor in April 2024 $\boxed{}$

Status 2024

Login node

- Updated to RHEL8
- Ongoing migration from local unix backend to LDAP

Integration of HTCondor in REANA

- Available in latest REANA release since a few days
- Deployed on REANA production instance at AIP thanks to Elena and Arman
- Credentials saved in REANA server, transfered afterwards to login node

Cluster integration

- Local RBG cluster at LMU - one shot integration - not used afterwards
- C2PAP cluster at LRZ - integrated a few days ago
- Both with shared file systems to acces input data

Status 2024

Reports

- Detailed description in mid-term deliverable report

  Will be the **only document** in which we can describe the development achieved

- Latest developments presented at CHEP last month

Tutorial on C4P and S4P usage

- Tutorial can be found here $\nearrow$

- Expectation: 7 participants registered to be present in Bonn

- Achievement: 0 physically present - 2 present online

- Symptom of a more general problem?

Plan 2025

Compute4PUNCH developer could look at following items:

- Use Mytoken to authenticate job submission to HTCondor

- Develop XRootD File Transfer Service within HTCondor

- Integrate OIDC flow in REANA client

- Provision shared home directories to PUNCH users