



Happyface 4 – status & plans

DCMS computing team meeting | 8 March 2022

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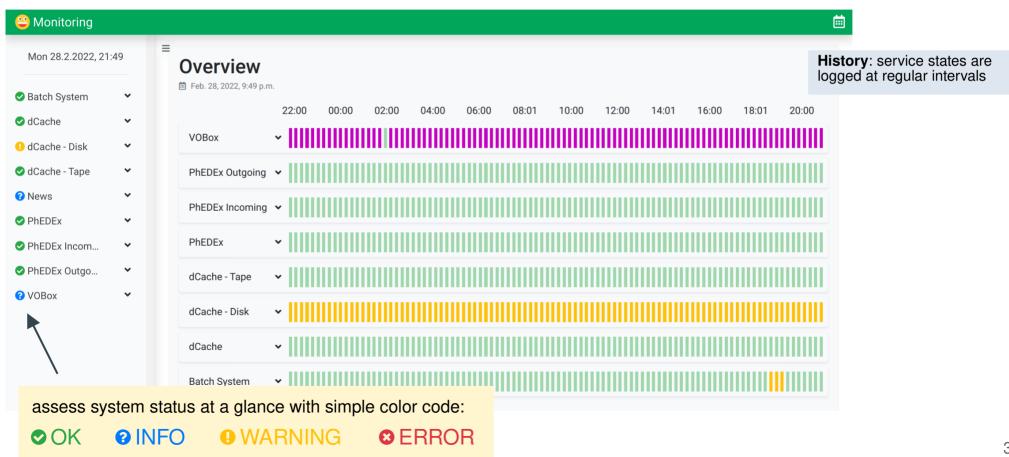
Happyface

- web-based tool for meta-monitoring computing infrastructure
 - collect information from multiple different data sources
 - aim to provide quick overview of the status of systems
- version 4 → completely new code base based on modern technologies
 - main application coded in Python using the *django* web framework
 - modern, responsive front-end using HTML5 + CSS3 + various JS libraries
 - modular design separating core functionality from extendable system of analysis modules



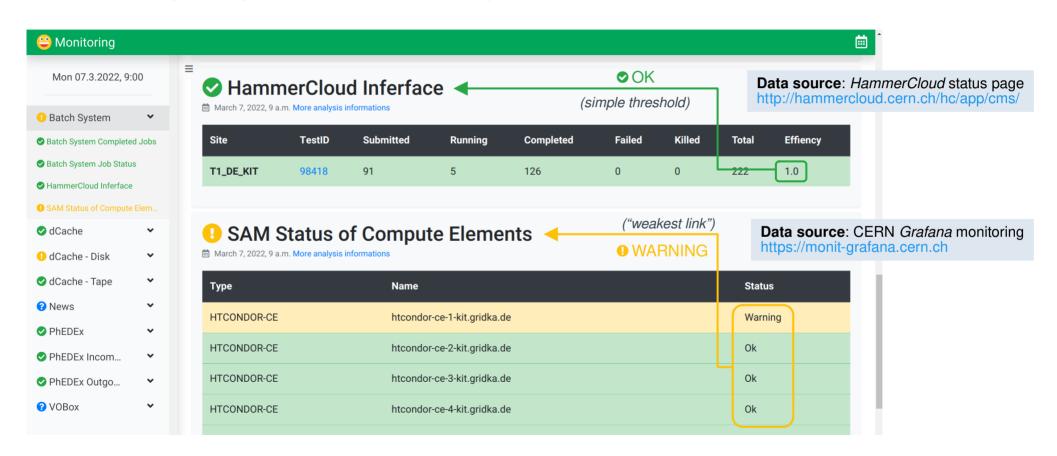
UI overview

Happyface instance deployed at ETP for monitoring the status of CMS services at GridKa



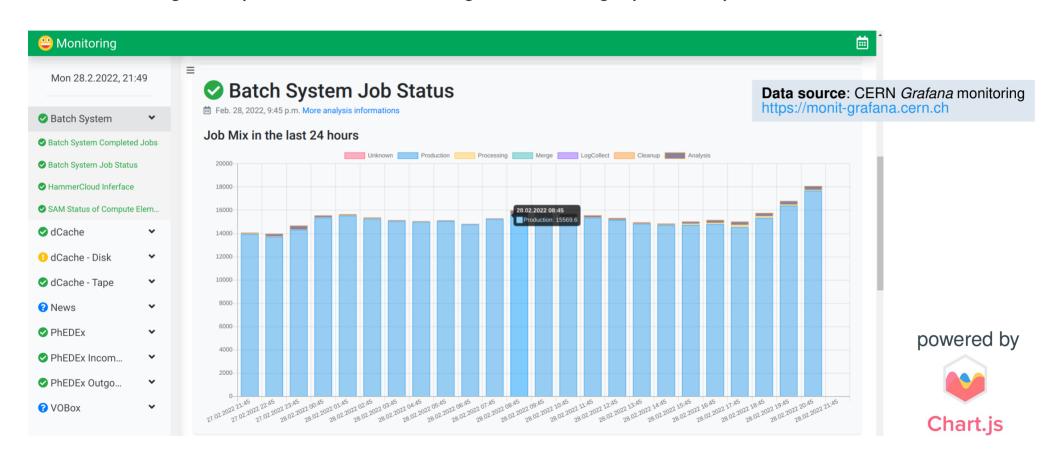
Analysis modules

raw monitoring data processed for extracting status information



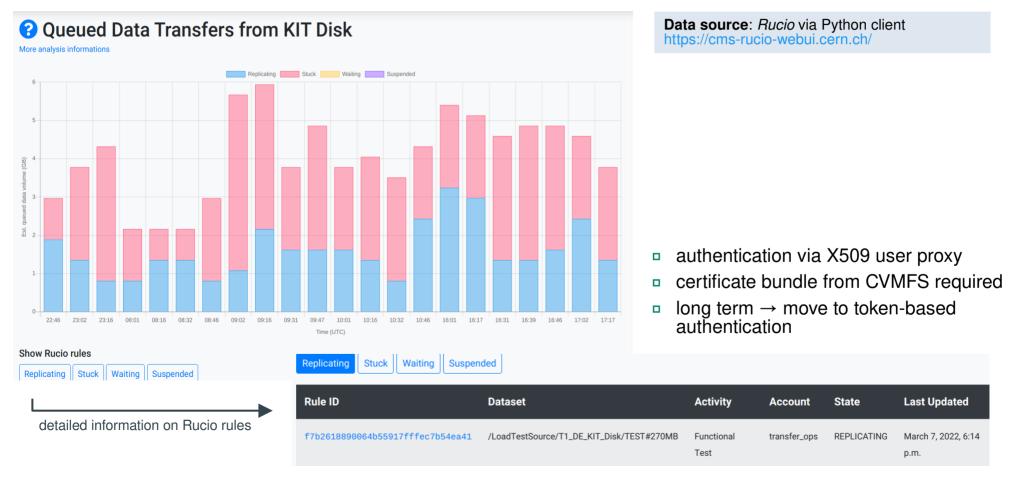
Plotting modules

raw monitoring data processed for building interactive graphical representations



Ongoing development — integration of Rucio

replacement of old PhEDEx modules with new data transfer monitoring based on Rucio



Summary & plans

- development of Happyface meta-monitoring tool ongoing at KIT
 - small but active team of developers
 - recent work on implementing data transfer monitoring with Rucio
 - larger topic is transition to token-based authentication
- interested in collaboration with other grid sites
 - plan to work with UHH for setting up Happyface 4 instance + testing
 - interest in Aachen?
- long-term aims:
 - make code publicly available (some things still to clarify → hosting, CI setup, secrets...)
 - collaboration beyond CMS, e.g. with ATLAS sites