

DPM-cleaner a way to clean DPM without downtime

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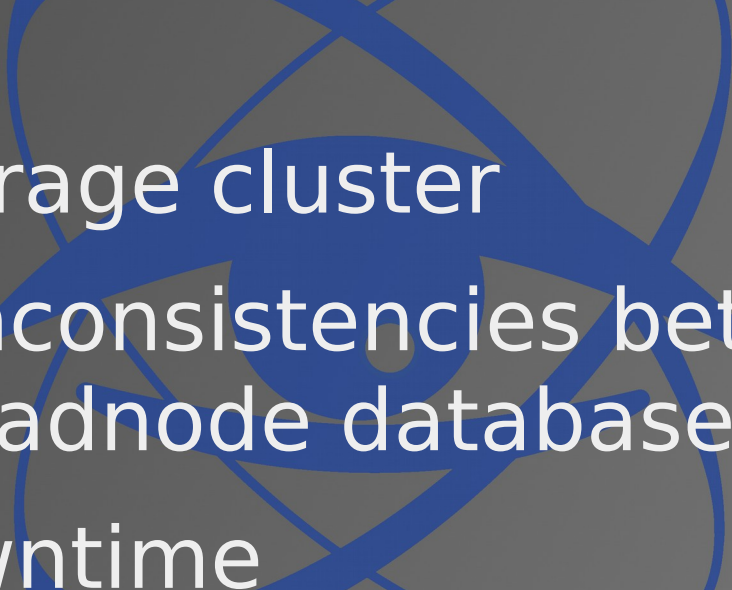


Akademie věd
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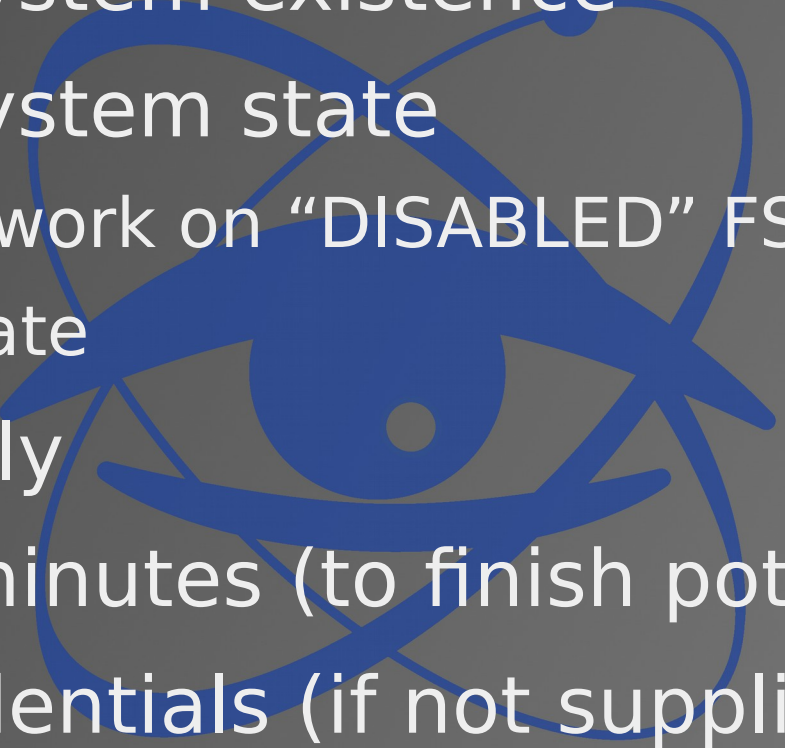


What is it?

Dpm-cleaner is a:

- shell script
 - For DPM storage cluster
 - Searching inconsistencies between real data and headnode database
 - Without downtime
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How does it work? (1)

- 1) Verify file system existence
 - 2) Verify file system state
 - 1) Refuses to work on “DISABLED” FS
 - 2) Store FS state
 - 3) Set read-only
 - 4) Wait for 3 minutes (to finish potential writes)
 - 5) Ask for credentials (if not supplied beforehand)
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How does it work? (2)

6) Get data about files from DB

6) Possibly fail when no data returned

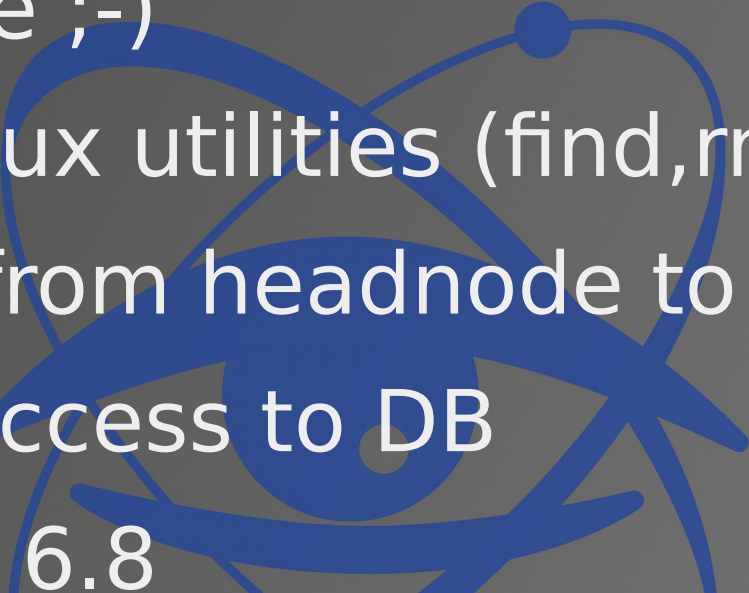
7) Cross-check files on drive against DB data

6) Fail if no files found

8) Remove not found data (both on drive and in DB)

9) Set FS to state from stored in 2)

Requirements

- DPM instance ;-)
 - Standard Linux utilities (find,rm,...)
 - SSH access from headnode to server
 - Read-write access to DB
 - Tested on SL 6.8
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Where to get it and contacts

- Github repository
 - <https://github.com/samuraiiii/dpm-cleaner>
- E-mail
 - mikula@fzu.cz
 - dpm-users-forum@cern.ch
 - Or again Github repo
 - PRs and bug reports are „welcome“ ;-)





Thank you for your attention