

UniBE update Spring 2026

- **Storage**
- **Compute**

Storage

- 2.2 PB on 5 servers (incl. 180 TB for LOCALGROUPDISK), no changes
- Funding situation still in a total mess at the national level
 - pledge reduced to 500 TB for April 2026 => announced at ICB to raise attention to the issue
 - It does not mean we'll retire the storage
- We could opportunistically use some other storage laying around
 - ~1 PB on two servers
 - We would like to test it, one server is in principle ready for the tarpool deployment
- Solution for federated SRR record expected “soon becoming reality”
 - New team member at WLCG ops
 - Took over the WSSA re-deployment and development

WSSA - Federated storage

- WLCG Sites occasionally expose their physical storage through virtual federations
 - Example: Bern physically hosts storage that is exposed via the NDGF federation
- Experiments don't want to be exposed to the underlying physical storage distribution, but rather operate on the federation as a single storage.
 - Sites on the other hand want to see their contributions accounted for in the WLCG reports
- The plan is to keep parallel track of federated storage and account it to the providing site after the 30d aggregation step.
- Bern is our main use case right now, but could this also be useful for others?

Compute

- ~8k cores online, ~8k to be provisioned (OpenHPC), 3x ARC CEs with DTR, flash lustre for ARC cache and session dirs. Still pending the HDD based lustre tier to allow for doubling the cluster capacity
- Pledge for April 2026 also cut to 1k HS23
- There is *always* a “good” reason not to have the cluster full
- **kernel, lustre, ARC, aCT, dCache, HammerCloud, cvmfs ...**
 - not trivial to achieve stability since moving on from CentOS 7
- Many issues upwards of almalinux 9.4
 - Kernel upgrades → lustre client version → new “features” → nodes freezing randomly: `Write request failed with -14` 🤖
 - Staging woes:
 - **Failed in data staging:** Destination `davs://dav.ndgf.org:443/atlas/disk/*.pool.root.1:checksumtype=adler32:checksumvalue=5f225f53` **already exists**
 - `/var/log/arc/arex.log: [2026-03-26 10:33:12] [Arc.Generator] [VERBOSE] [3279629/2] fd567bdb6c3a: User has NOT uploaded file /runpilot2-wrapper.sh`
 - `/var/log/arc/arex.log: [2026-03-26 10:35:10] [Arc.Generator] [VERBOSE] [3279629/2] fd567bdb6c3a: User has NOT uploaded file /pandaJobData.out`
- Everything scales up except support → steadily increasing complexity while “super experts” are becoming thin

