



JUNE 18TH 2026 | OAK RIDGE TENNESSEE

Experimental Computing Laboratory (ExCL) Monthly Meeting

PRESENTED BY

Steve Moulton, Aaron Young, Jeffrey Vetter

Advanced Computing Systems Research Section



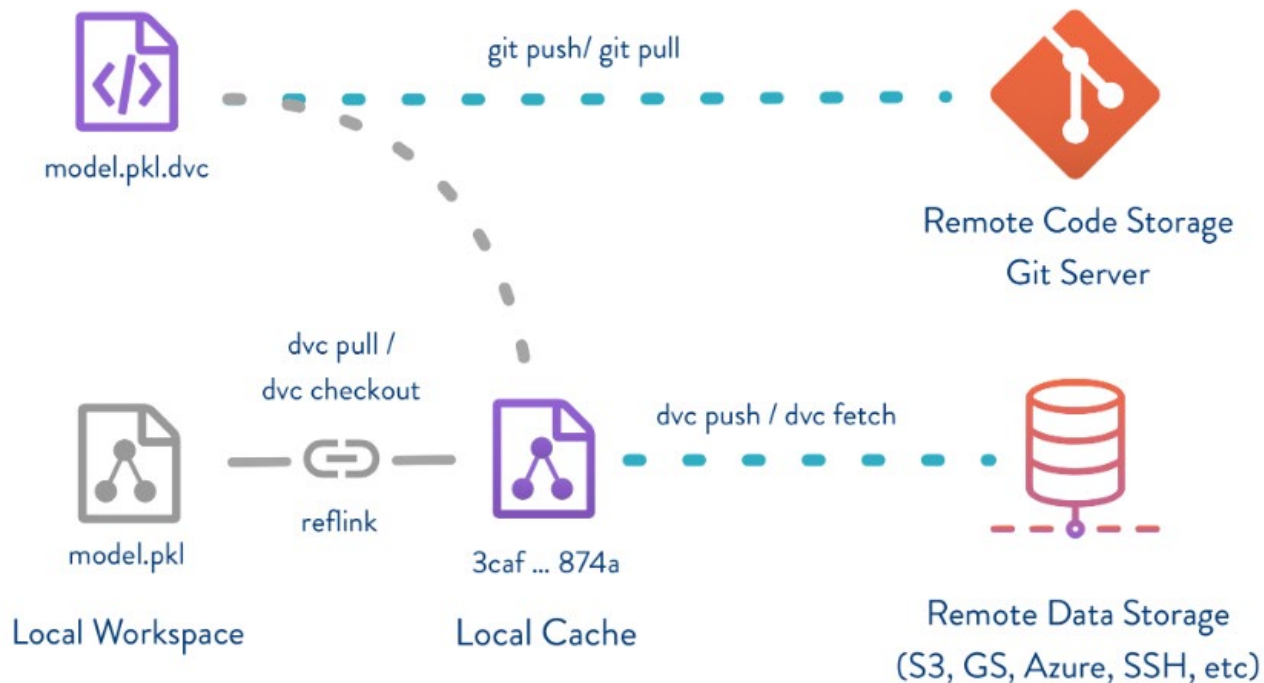
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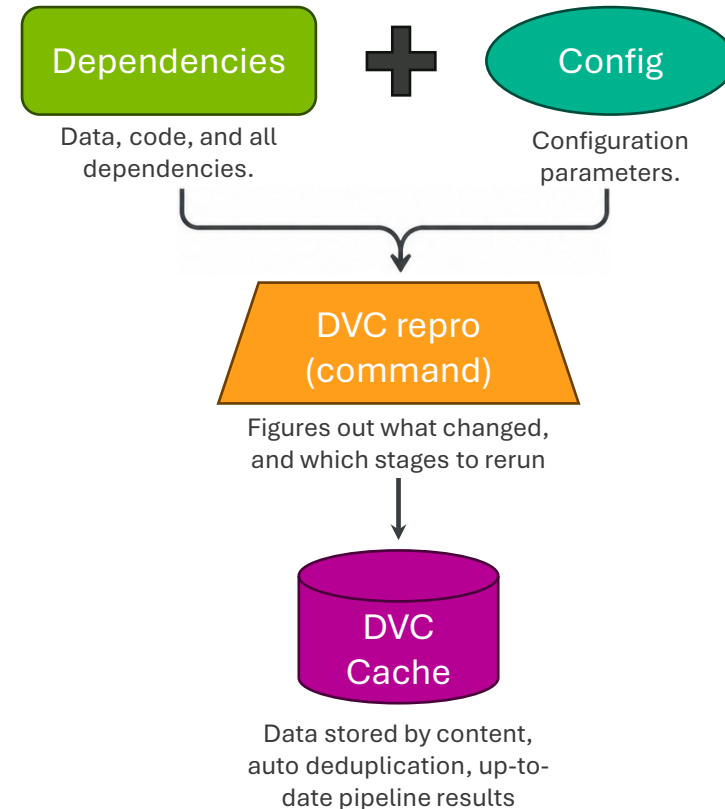
DVC (Data Version Control) — <https://dvc.org/>

DVC works well with ExCL. On ExCL, data can be stored in a shared cache in the project folder. Outside of ExCL, this same cache, can be used as the remote data storage. See [DVC Quick-Start Guide | ExCL User Docs](#).



DVC Repo

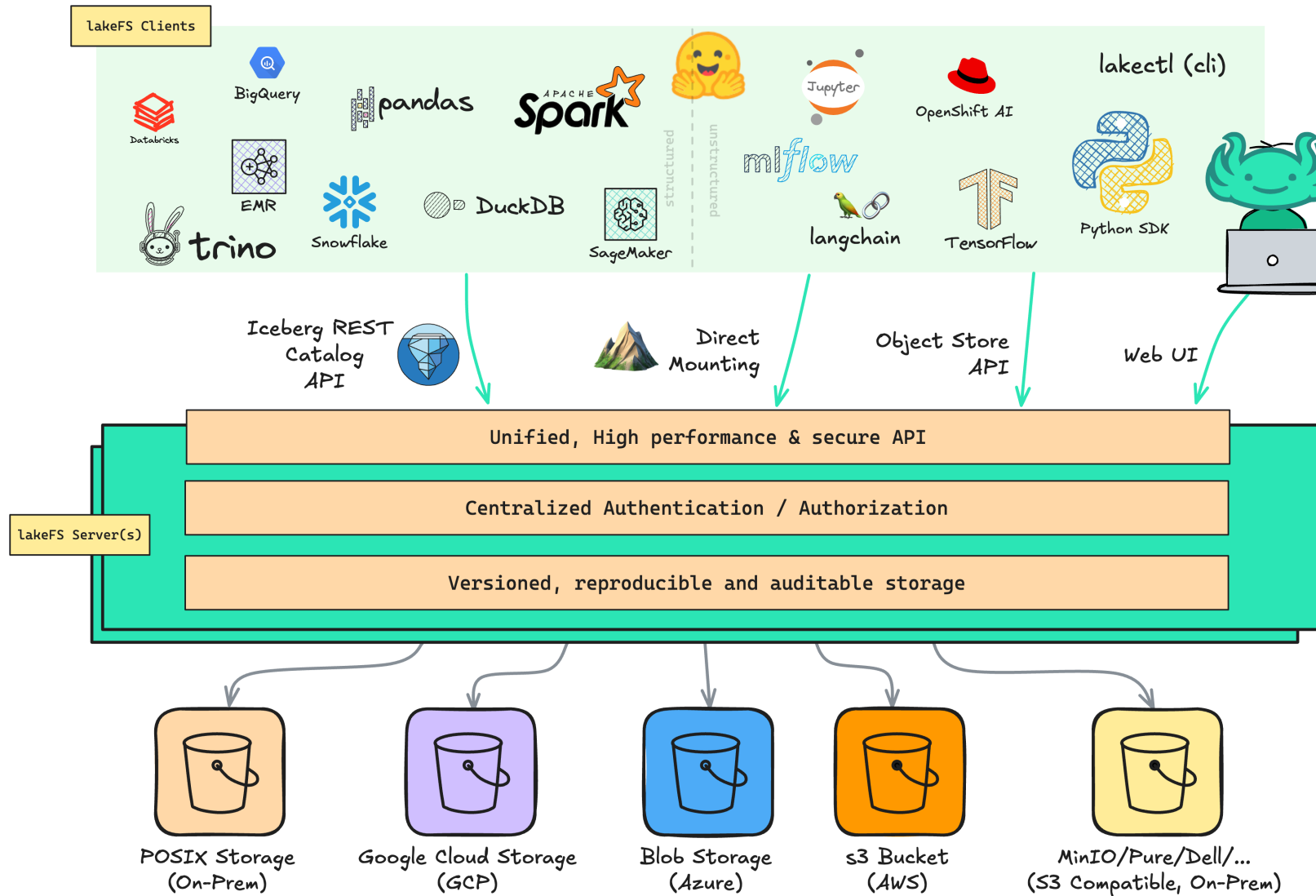
Reproduce your pipeline by rerunning only what changed.



LakeFS — <https://lakefs.io/>



Git-like version control for a data lake.



Operations and Procurement

Most operations work has been internal and infrastructure

- Updates to respond to well known kernel vulnerabilities.
- More frequent update schedules going forward – likely to adhere to monthly update reboot.
- Extensive work on account management to reduce staff overhead and opportunity for errors.
 - Accounts are being reviewed for PAS compliance – PAS will be a requirement on all accounts (which is low effort for ORNL staff members).
 - PAS requests for foreign national researchers have substantial (i.e., four week) lead times.
- Procurement proposals are in motion. If you have suggestions, ideas, dreams that will enable research, now is the time to get them to your systems engineering team.

ExCL Updates

- The former HYP100 system (4*v100, 4*mk100) is now in the ExCL laboratory envelope (in K200).
 - Maxwell will be redeployed next week. Emergency access is available before redeployment is complete
 - This will be an ExCL-standard configured system.

Questions/Projects/Comments/Discussions

- Recordings available via link in newsletter
- Discussion on how to provide solo access for performance analysis
- How would solo access affect gitlab runners
- Monitoring performance – btop
 - Also provide access to users to Grafana/check_mk?