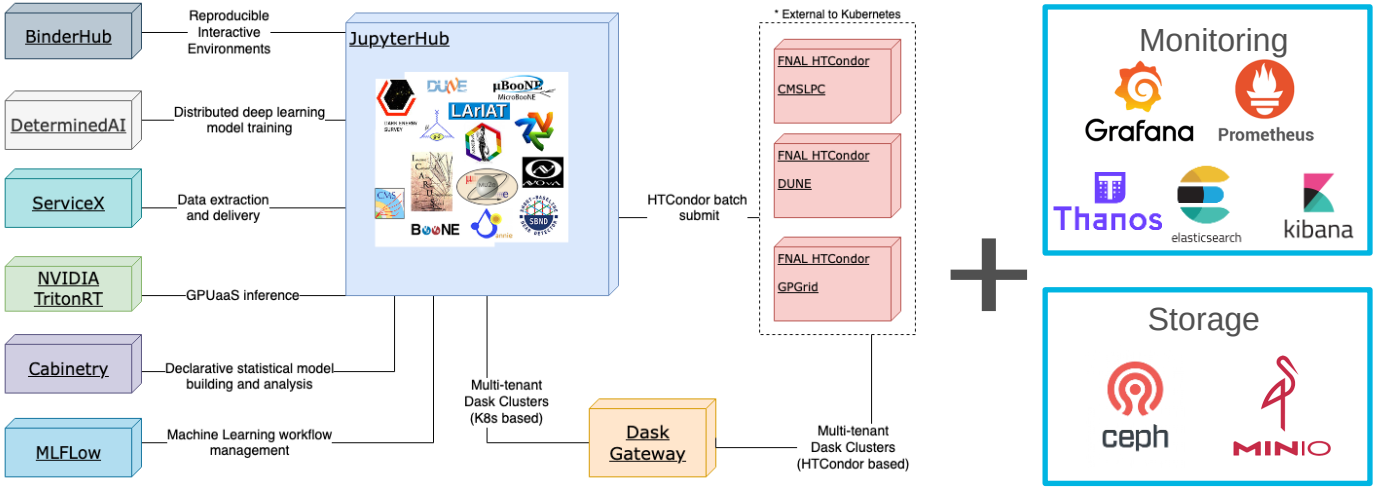
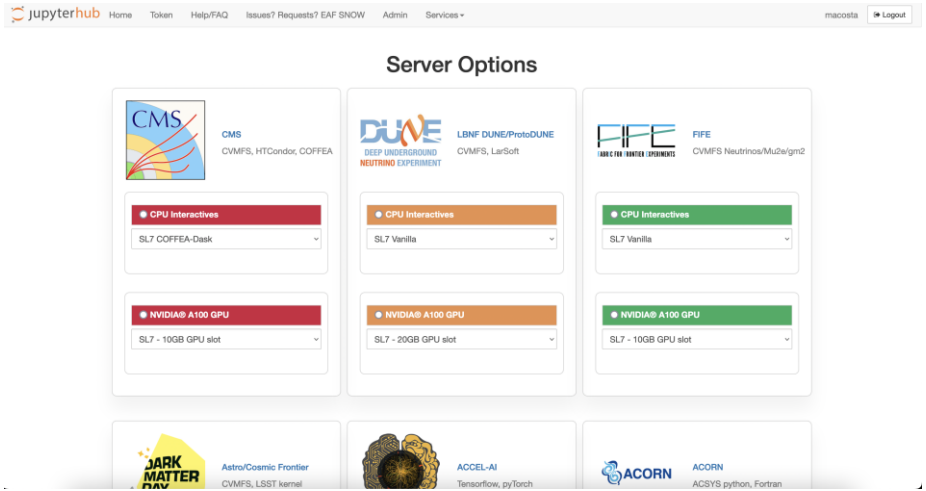
The Elastic Analysis Facility (EAF) at Fermilab

- EAF is a multi-VO analysis facility serving CMS, Neutrinos/Muon experiments, Accelerator science and Astro physics groups collaborating at Fermilab.
- Facility is open to all Fermi services account users onsite or connected to the Fermi network via VPN or SOCKS proxy.
- A homogeneous deployment layer in Kubernetes facilitates the use and access to a pool of large, specialized software and hardware.



What does a CMS user get on EAF?

- 25 GB cross-notebook persistent area for user storage and 40 GB scratch space for GPU runs
- Up to 3 'named servers' running concurrently, sharing persistent areas
- CVMFS mounts: cms.cern.ch, cms-lpc.opensciencegrid.org, oasis.opensciencegrid.org, unpacked.cern.ch
- HTCondor remote job submission to the CMS LPC analysis pool
- Central lab user home areas and LPC NFS mounts: `/uscms/home, /uscms/data1-3, /uscms/scratch`



- Access to our full applications ecosystem including TritonRT, MLFlow, ServiceX, Dask and more. Our demo runs v1.4.0 of the AGC.
- EOS client, Xrootd (uproot), xCache and gfal tools for remote data access.
- In-notebook resource usage monitoring and Grafana metrics dashboard.
- Access to 8 A100 GPUs segmented into 30 multi-instance GPU partitions.