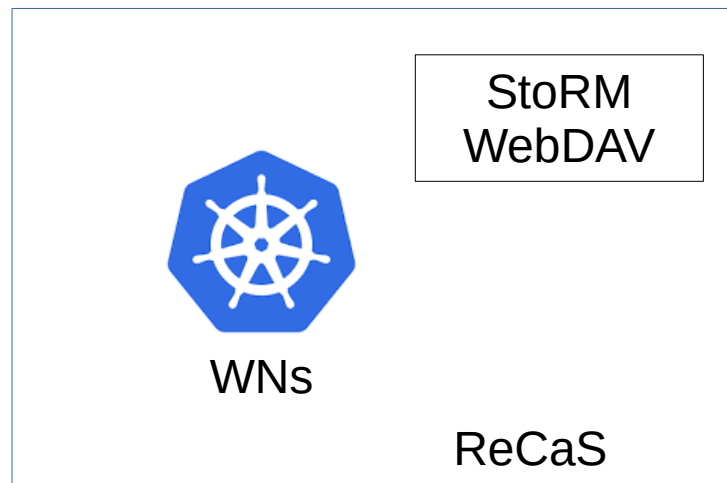
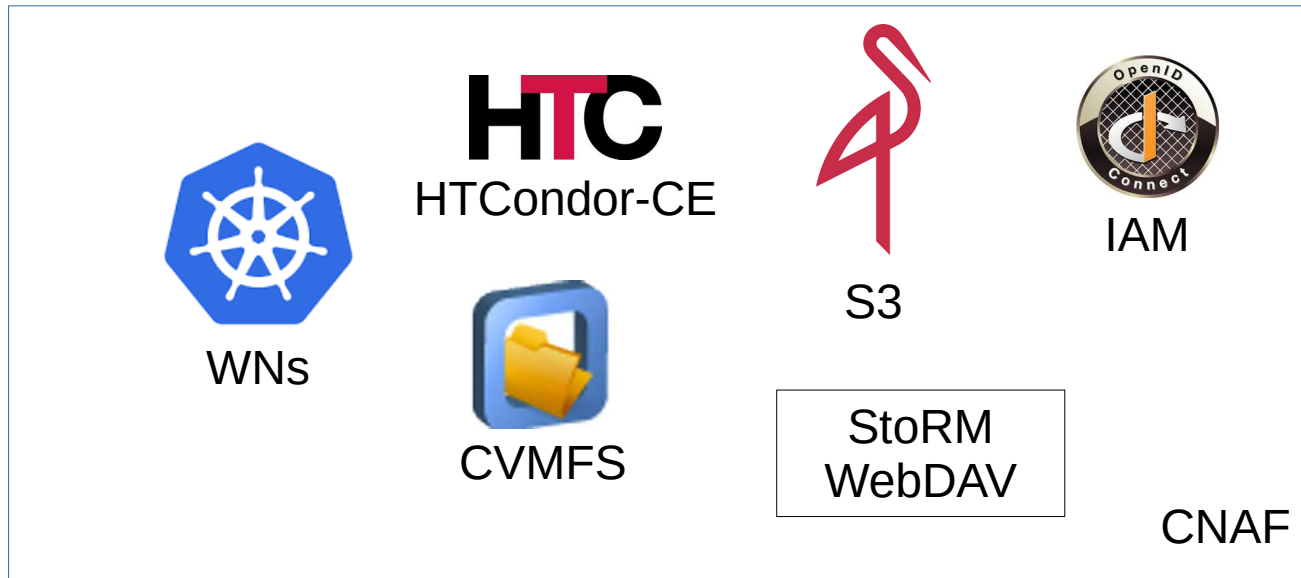


HERD computing in Italy

- Three data centers: CNAF (INFN), ReCaS (INFN), ASI (Italian Space Agency)
- Pledged resources at CNAF Tier-1 and ReCaS
 - Currently used for production
- Cloud-based approach
 - Under development
- HTC resources + storage
- Currently in prototyping phase

- Centralized HTCondor-CE instance at CNAF
- Authentication with IAM tokens
 - SSO for all the resources incl. storage, web services etc.
- Containerized working nodes on Kubernetes in different sites
- S3 and StoRM-WebDAV storage
- Software distribution via CVMFS
 - Automated deployment via Gitlab CI
- Containerized HTCondor frontend for job submission
 - Running on user's laptop

Current status



Developments

- Finalize the bring-up of the ASI site
 - Deployment of storage and K8S
- Storage authentication for jobs
 - Currently done with pre-signed URLs
- CVMFS for user software distribution
- RUCIO instance for data management