



ICT and Software Support @ F9

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Services and Infrastructure



Common IJS services

- ▶ connectivity
 - ▶ network, Eduroam, VPN
- ▶ collaboration
 - ▶ e-mail, Nextcloud, GitLab
- ▶ compute
 - ▶ NSC cluster
- ▶ infrastructure
 - ▶ web hosting

F9 specialised services

- ▶ collaboration
 - ▶ web pages, wikis
- ▶ storage
 - ▶ AFS, Ceph
- ▶ compute
 - ▶ SiNET
- ▶ infrastructure
 - ▶ virtual machines / servers

Software Support



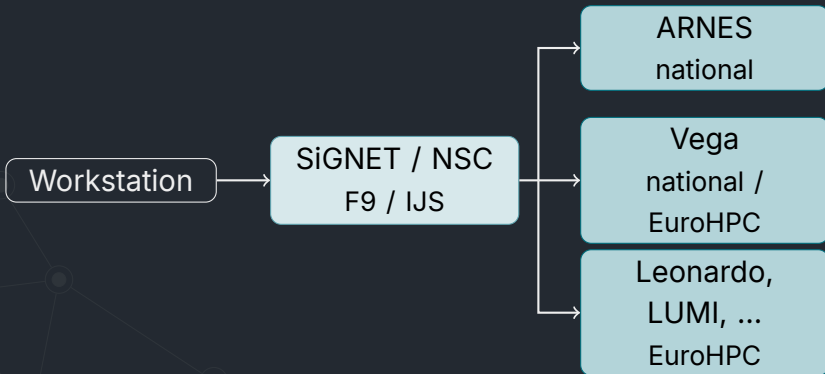
- ▶ centrally managed Linux workstations
- ▶ development tools and scientific software
- ▶ containers (Apptainer)
- ▶ software installation and troubleshooting
- ▶ help moving workloads from desktop / laptop / workstation to cluster or HPC
- ▶ ask :)



Local Compute

- ▶ GPU-capable workstations
 - ▶ development, troubleshooting, benchmarking
- ▶ common user environment
 - ▶ AFS home and projects
 - ▶ CVMFS access
- ▶ remote access via SSH
- ▶ gradual refresh with new CPU / GPU hardware

Compute: from local to HPC



Choose the resource appropriate to the workload.



Storage and Data

AFS

20 TB

- ▶ home, smaller project data
- ▶ backups and daily snapshots
- ▶ remote access (Windows, Mac client)

CephFS

1.1 PB

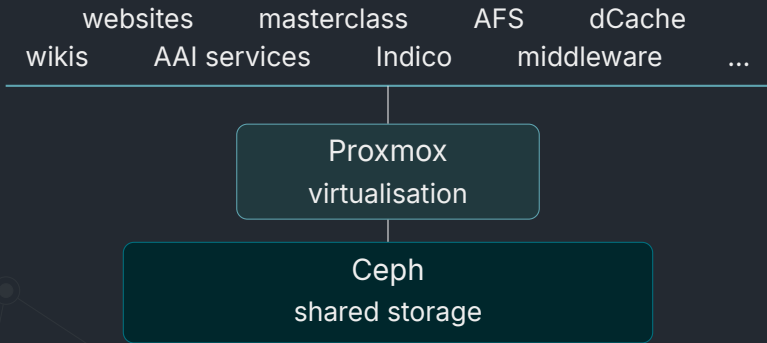
- ▶ larger project data
- ▶ accessible on SiNET

dCache

6 PB

- ▶ local pools for ATLAS, Belle
- ▶ larger datasets
- ▶ HPC workload input and output
- ▶ contributes to the NDGF data lake

Virtualisation and Services



- ▶ services increasingly moving to VMs
- ▶ easier maintenance, migration, hardware replacement



Need...

- ▶ ...software that isn't installed?
- ▶ ...help running something on a cluster?
- ▶ ...a VM or specialised service?
- ▶ ...more or different storage?

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