

Service migration from CYFRONET to CC/IN2P3

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- ▶ Strategy
- ▶ Migration steps
 - ▶ Configuration
 - ▶ FG-DIRAC software update
 - ▶ DB migration
 - ▶ EGI/FG-DIRAC services
- ▶ Planning
- ▶ Current status

▶ Goal

- ▶ Have a combined EGI/FG DIRAC service
 - ▶ Optimized for maintenance and operations
 - ▶ Still keeping separate EGI/FG portals
 - Web portals
 - Accounting ?

▶ Optimized

- ▶ Minimum redundant services and databases
- ▶ Single configuration
- ▶ The same administrators for all the service
- ▶ Single maintenance procedures

- ▶ Resources (Gino, Vanessa)
 - ▶ Single Sites description
 - ▶ LCG -> EGI domain
 - ▶ Checking for the description validity
 - Actual information
 - VO assignments
 - ▶ Storage elements
 - ▶ Merge the two descriptions
 - ▶ Leave only SEs with known data on them

- ▶ Registry (Andrei)
 - ▶ EGI VO information copy to the FG Configuration
 - ▶ Checking and sorting
 - ▶ EGI Group information copy
 - ▶ Checking and sorting
 - Only VO groups, no dirac_admin
 - ▶ EGI users information copy
 - ▶ Clean-up as much as reasonable, checking and sorting
 - ▶ EGI Hosts information copy
 - ▶ Those hosts that are not at CYFRONET

- ▶ Operations (Andrei)
 - ▶ VO information copy to FG
 - ▶ Keeping Setup EGI-Production
 - ▶ Setting services: FileCatalogs
 - ▶ Copying Pilot descriptions

- ▶ Setup
 - ▶ Keep EGI-Production setup
 - ▶ No client configuration update will be needed
 - ▶ Dirac-Production and EGI-Production will share services as much as possible
 - ▶ Differences for File Catalogs (may be)

- ▶ **FG-DIRAC service software upgrade (Andrei)**
 - ▶ DIRAC software to version v7r1p30
 - ▶ Now v7r0p2
- ▶ **Configure to use Pilots3 (Andrei)**
 - ▶ Setup pilots tarballs automatic creation
 - ▶ Serve tarballs from the FG Web portal
 - ▶ Update the SiteDirector configuration
 - ▶ Test pilot operations
- ▶ **Enable the use of Elasticsearch DB (Andrei, Patrick, Michelle)**
 - ▶ Following the CTA pattern
 - ▶ Setup ES user credentials and the name space
 - ▶ Start monitoring and WMS history
 - ▶ Retire RRD monitoring

- ▶ Migrate only databases with non-volatile information (Andrii)
- ▶ Accounting
 - ▶ Full migration (12GB of the dump size)
 - ▶ Separate Accounting service in the EGI-Production setup
- ▶ Security logging
 - ▶ Full migration just in case the information will be needed
 - ▶ No associated service
- ▶ File Catalogs
 - ▶ General File Catalog: full migration with an associated service in the EGI-Production Setup
 - ▶ Eiscat File Catalog: repopulation once a dedicated service will be in place
- ▶ Other databases will be just replaced by the FG databases
 - ▶ Jobs, requests, monitoring, user profiles, etc

- ▶ Start the following services on the new hosts
 - ▶ CS slaves
 - ▶ File Catalogs
 - ▶ EGI, Eiscat
 - ▶ EGI Web Portal
 - ▶ Site Directors
 - ▶ Extra copies of WMS services for high availability and throughput
 - ▶ Using the same databases as FG services
 - ▶ ES Monitoring service
 - ▶ Transformation service

- ▶ **DIRAC-USER/CYFRONET-USER Storage Element**
 - ▶ Setup a storage element at CC/IN2P3
 - ▶ rsync physical storage
 - ▶ Test compatibility with the File Catalog records

- ▶ **Will need checking the files integrity with the File Catalog**
 - ▶ Not so many useful data (if any)
 - ▶ Mostly used for failover and tutorials
 - ▶ Can be scrapped most likely

- ▶ Configuration ready by 8 March
 - ▶ Resources, Registry, Operations
- ▶ Test the setup of the FG hosts (done, to be confirmed)
 - ▶ Certificates
 - ▶ DIRAC software and components
- ▶ Testing with several VOs all the operations by 15 March
 - ▶ enmr.eu, opencoast, km3net
- ▶ Announcement of the EGI/FG service downtime for a day 16 March (à discuter)
 - ▶ Drain EGI jobs
 - ▶ Dump and migrate databases
 - ▶ Change the DNS alias names, wait for the info propagation
 - ▶ Restart the service

- ▶ Host are deployed
 - ▶ ccdiracli08-11
 - ▶ Certificates with EGI alias names

- ▶ Services are installed
 - ▶ Configuration
 - ▶ User services
 - ▶ Web portal
 - ▶ WMS
 - ▶ DMS

- ▶ Database dumps are tested

- ▶ Ready for the migration steps