



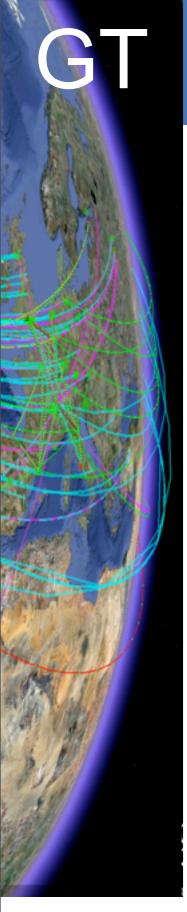
WG on Storage Federations

09 Oct 2012 - preGDB
Sites day
Introduction

Fabrizio Furano furano@cern.ch







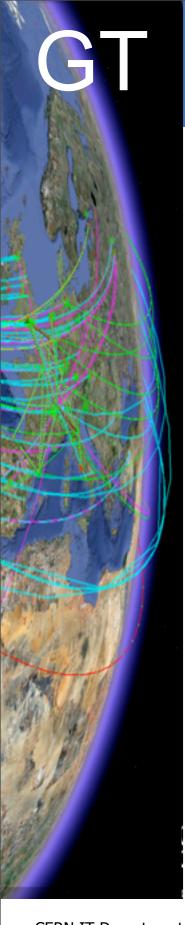
The federations WG



- Welcome to today's session of the federation WG, 5th episode
- Just one slide of introduction and summary (the real summary is tomorrow)
- The mandate sounds like:
 - Make the concepts more clear to everybody
 - Make experiments and WLCG sites talk
- 3 months of life, 8-9 meetings
- We started collecting the points of view of the experiments, with focus on:
 - What are they trying to accomplish (and who is "they")
 - The rationale behind (the "Why")
 - Being critical and pragmatic at the same time
- This episode moves to considering the point of view of sites. Their representatives have been invited to summarize their concerns
- Thanks again to the participants, as their contribution to the content and to the productive atmosphere so far has been of the highest quality.







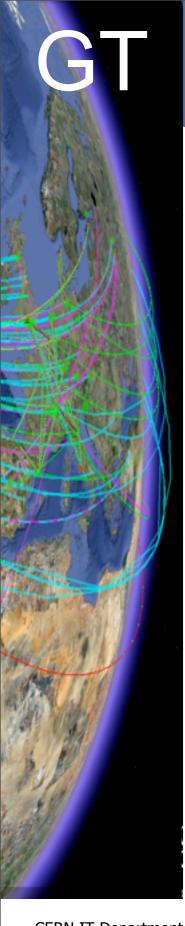
Introduction



- In the past episodes we put together a snapshot of the recent "storage federations" initiatives
 - Focus on the motivations and on the differences with respect to the current production environments
- The activity and the plans, in particular of ATLAS and CMS are very strong
- From the words of some speakers, this seems to be a shift in the focus. From local to global, from production to users
- The information in our pages is very up to date and synthetic
- The idea for today is to dedicate a round to the sites, listening at
 - Their experience with these new initiatives
 - Their requirements







From the last meeting

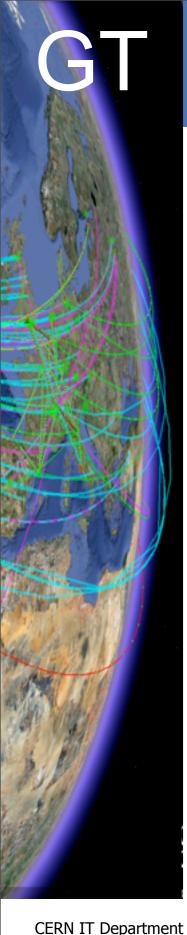


 We had the idea to discuss "What shall the admin of a remote [WLCG] site do?"

- In other words:
 - What do you (experiment) give and say to CNAF or NIKHEF or BARI or <put your site> to have a well working endpoint
 - Instructions for sysadmins, troubleshooting etc.
 - Firewall config, DNS names, machines with multiple intfcs...
- This includes the point of view of:
 - sites willing to know in advance
 - sites that can describe their experience
 - experiments' people willing to push for the new technology
 - technology developers, learning what people likes







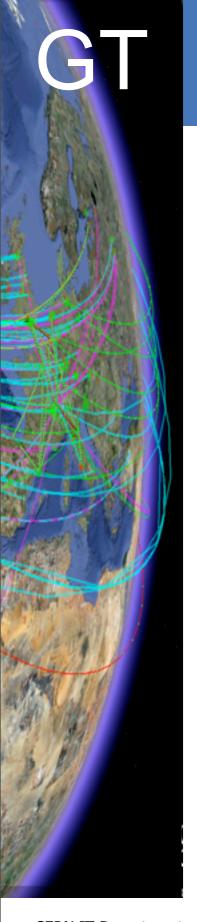
Federations and sites



- What does a site have to do to:
 - join one of these federations?
 - maintain it, keep its corner healthy
 - report on the activity of its federated node(s)
- Does this federation involve instrumenting/customizing the setup at site-level?
 - e.g. custom scripts doing XXX then YYY (file healing... reporting... what?)
 - Who does it?
- Are all the sites configured/instrumented in the same way?
- Can the described approaches share components among experiments?
- What makes a site eager to install your stuff?







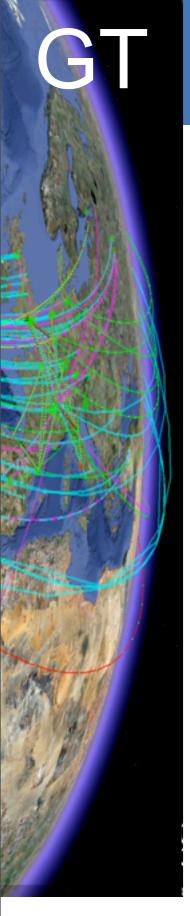
Next meeting (1/2)



- Proposal
 - I will start a Doodle poll after the GDB
 - –With respect to the original schedule we miss a few points:
 - tech monographies: 1 day xrootd, 1 day HTTP/DAV federations
 - 1 day monitoring
 - 1 day security (this was not in the schedule, shall we add it?)
 - 1 day final summary







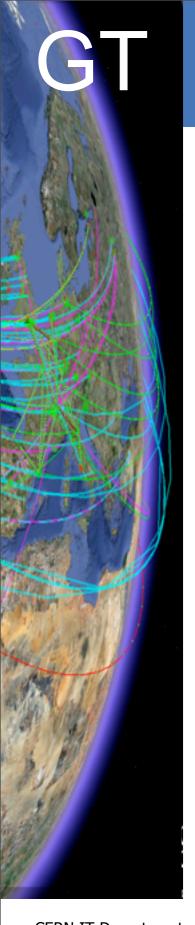
CERN IT Department CH-1211 Geneva 23 Switzerland www.cern.ch/it

Next meeting (2/2)



- What about the next one being the xrootd tech day? Or shall we anticipate the monitoring discussion? Or shall we put the two monographies in the same day?
- Here is the original proposal in our schedule:
 - Two meetings (total!) around each storage federations technology we know about
 - Xrootd framework
 - Dynamic Federations (with WebDAV/HTTP frontend)
 - A description of the set of consolidated features with respect to the federations tech
 - Where's the config? Central or in the endpoints?
 - · Discovery, resilience to downtimes
 - Indicative steps for their tech to be deployed at a site
 - A collaborating one, AND one which does not know anything and will just look at it from time to time
 - Bundles available? How the config of a site is handled
 - Would be nice to know about:
 - Why is it so cool?
 - What is the vision about making it really powerful and ubiquitous?
 - Are there contacts with other sciences/VOs setting up federations?
 - Is there an idea on a future interactive access (tools?)







Thank you



