Site Certification Process (Round Table)

Fabio Hernandez

IN2P3 Computing Center - Lyon

October 30 2002

fabio@in2p3.fr

Outline

- Process overview
- Open Questions
- Discussion

Problem Statement

- We need to define and implement a process to let EDG Applications Testbed sites be certified
  - main target: sites joining the testbed for the first time
  - may also apply for sites in the testbed when a new EDG release needs to be deployed
- Goal: to allow sites to join and leave(!) the testbed with minimal disruption for end users and testbed operators
  - although some service providers (like RB and RCs) may not leave without disruption ;-)
- Document written by Laurent Bobelin submitted for comments
  - targeted at EDG services providers (UI installation should not need certification)

Process Overview

- **Certification process depends on the EDG component being certified**
  - CE, RC(?), VO can be certified in a more or less stand alone way
  - SE certification needs at least another correctly configured SE
  - RB certification needs at least a correctly configured CE
- **The most common components that will be deployed are CE and SE**
  - Let's look at the process for CE certification
- **Actors**
  - Site administrator
  - Resource Broker operators
  - Test group

Process Overview (cont.)

Step	Who	Tools
1. Install and configure new CE	site admin.	EDG documentation, Globus basic commands
2. Verify interaction between testbed RB and this new CE	site admin.	EDG commands for job management, test suite(?)
3. Verify new CE/new site information system Advertise site status EDG-TEST	site admin./RB operators should be informed (required for manual configuration of II)	EDG commands for job management, tools for LDAP browsing, test suite welcome
4. Verify the whole chain of job management (submission, execution, query status, output retrieval)	test group	test suite
5. Advertise site status EDG-CERTIFIED	site admin.	

Process Overview (cont.)

Step	Who	Tools
6. Implement site operation procedures (periodic CRL retrieval and grid-mapfile update, ...)	site admin.	EDG documentation, EDG tools
7. Install applications software (update site information system)	site admin.	Application's toolkit test suite

Open Questions

- **The certification process for a SE needs a correctly configured SE for validation of replicate management**
  - solution 1: configure two storage elements in the same site and make replication test between them
  - solution 2: request the registration of the new SE in an already configured SE (certification testbed?)
  - how to prevent Replica Catalog corruption?
- **RB matchmaking process needs to be modified to only include (unless otherwise specified) EDG-CERTIFIED sites**
  - is this an acceptable request for RB implementers?
- **Currently we are using a manual configuration of sites known to the RB**
  - in the future, a simple registration of a site's information system on the testbed hierarchy will be enough

Open Questions (cont.)

- **Manual vs. Automatic registration of testbed sites (cont.)**
  - A single site can bring down the whole testbed operation: how can we prevent that?
  - Will the testbed information system be robust enough to support the temporal unavailability of a site?
- **Do we need a team in charge of the whole testbed operation?**
- **Who will decide which sites can join and when?**