TSTG Work Status

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Table of content

- Test group sites
- Test group reorganization
- Test group activities
  - Methodology
  - Daily check test suite
  - Site validation test suite
  - Test suite for testers
  - Test scripts coding
  - Certification Testbed
- Conclusions and future

Test Group Sites

- ◆ TSTG
  - ▪ IN2P3/LPC
  - ▪ CPPM/CNRS + CS-SI
  - ▪ CEA/Saclay
  - ▪ IFAE
  - ▪ LAP
  - ▪ BBE
  - ▪ LCG
- ◆ Also collaborating
  - ▪ INFN EDG Testing Group
  - ▪ LIP (Crossgrid test/validation coordination)

Test Group reorganization

◆ TSTG has adapted itself to the new Software Release Plan, the arrival of LCG and the new test and validation process

  ■ G.Grosdidier (LCG) is the new leader of the TSTG

  ■ TSTG now mainly focus on writing tests suites

    • daily check test suite

    • site validation test suite

    • test suite for testers

  ■ TSTG maintains quality following to QAG requirements (naming conventions and so on)

  ■ TSTG has now a CVS repository

  ■ TSTG and cert testbed will soon be merged

Test Group Activity: methodology

- ◆ 4 levels of testing :
  - level 1 : installation checking (check if the good list of rpms is installed and so on)
  - level 2 : configuration checking (check if correct conf files are in the correct repositories and so on)
  - level 3 : basic functionality checking (run jobs, transfer files, basic use replica catalog and manager)
  - level 4 : Benchmark testing (stress, scalability, etc)
- ◆ 3 different test suites to develop:
  - daily check test suites : check if elements on a testbed are correctly operating.
  - Site validation test suites : runs installation and configuration tests scripts to help site administrators to check their new installation.
  - Test suite for tester : helps to test specific elements.

➔ Same tests scripts but different packaging and interfaces

Test Group Activity: Daily check test suite

◆ Try to find out what's working and what's not on a testbed

◆ Tests reports published on web site

◆ covers test levels 1, 2, 3

◆ Prototype exists for GDMP testing

◆ Still under development

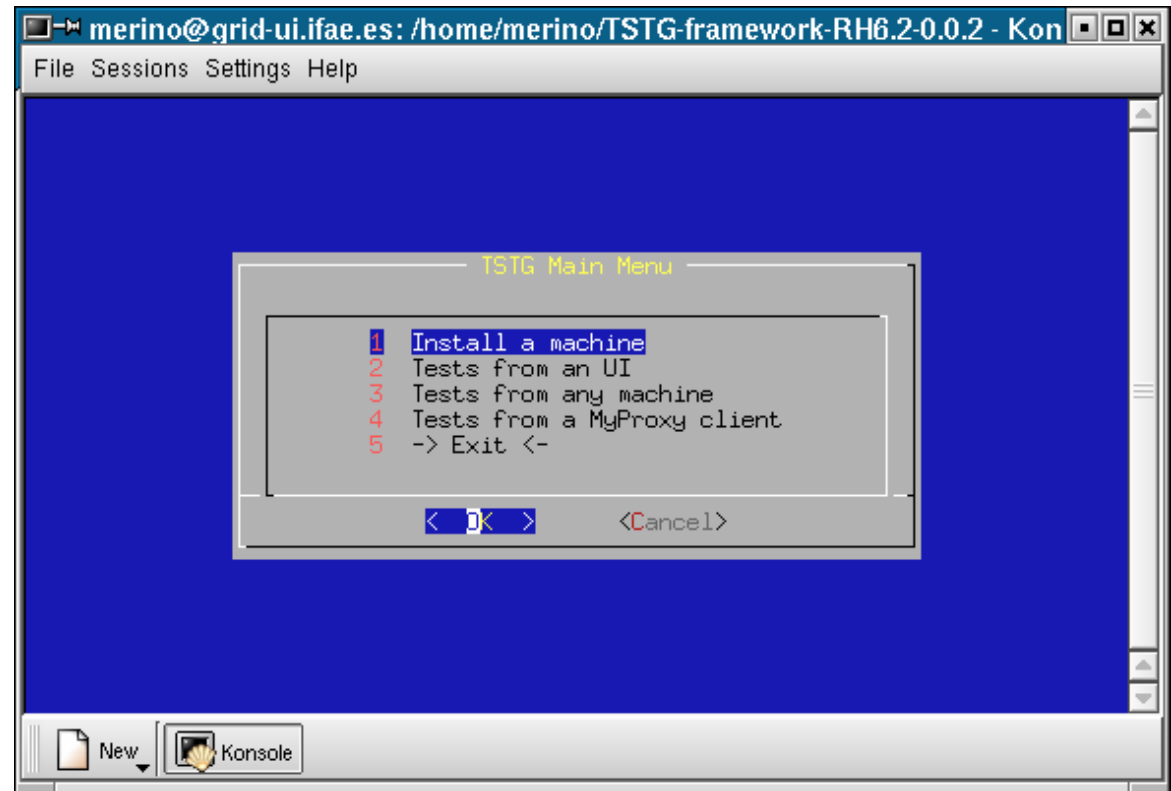| hosts	tests	grid-s1.ifae.es	grid-s2.ifae.es
	grid-nfo-search		
	GDMP_ping		ok
	subscribe		ok
	globus-url-cpy		ok
	register file		ok
	pub. catalogue		ok
	replicate put		fail
	remove files		ok
grid-s1.ifae.es			fail
	grid-nfo-search		
	GDMP_ping	ok	
	subscribe	ok	
	globus-url-cpy	ok	
	register file	ok	
	pub. catalogue	ok	
	replicate put	fail	
	remove files	ok	
grid-s2.ifae.es		fail	

Test Group Activity: Site validation test suite

◆ Covers level 1,2, maybe 3 (still need to be discussed)

◆ Requirements from site administrators

  ▪ Need to check installation once done

◆ Development not yet started ; need to create a baseline

  first with site administrators.

Test Group Activity: test suite for tester

◆ Covers all level of testing

◆ Prototype already exists since July.

◆ Still under development

◆ More oriented toward interactive testing

TSTG activity : Test script coding

- Level 1 and 2 : INFN testing group in charge of this code. Now covers nearly 100% of EDG elements

- Level 3 : TSTG scripts covers 70% of EDG elements, but not all functionality in each of it. Still under development

- Level 4 : dev of these tests should begin once level 3 will have a 100% coverage of functionality

	CEA Saclay	LAP	IFAE	INFN	Clermont	IN2P3/CSSI	BBE	LIP
User Interface								
Installation tests						X		
installation checking (level 1)				X				
configuration checking (level 2)				X				
basic func checking (level 3)						X		
stress testing (level 4)								
Ressource Broker								
Installation tests	X	X						
installation checking (level 1)				X				
configuration checking (level 2)				X				
basic func checking (level 3)	X							
stress testing (level 4)	X							
MyProxy								
Installation tests	X							
installation checking (level 1)				X				
configuration checking (level 2)				X				
basic func checking (level 3)	X							
stress testing (level 4)								
Computing Element								
Installation tests					X	X		
installation checking (level 1)				X				
configuration checking (level 2)				X				
basic func checking (level 3)					X	X		
stress testing (level 4)								
Storage Element								
Installation tests			X		X	X		
installation checking (level 1)				X				
configuration checking (level 2)				X				
basic func checking (level 3)			X		X	X		
stress testing (level 4)								
VO								
Installation tests						X		X
installation checking (level 1)								X
configuration checking (level 2)								X
basic func checking (level 3)						X		X
stress testing (level 4)								
LB								
Installation tests								
installation checking (level 1)								
configuration checking (level 2)								
basic func checking (level 3)								
stress testing (level 4)								
LCFG								
Installation tests			X					X
installation checking (level 1)								X
configuration checking (level 2)								X
basic func checking (level 3)			X					X
stress testing (level 4)								
Information Index								
Installation tests								
installation checking (level 1)								
configuration checking (level 2)								
basic func checking (level 3)								
stress testing (level 4)								
Network Monitoring								

TSTG activity : Certification testbed

◆ Need to have a stable testbed in order to test the test suites we develop

◆ Test testbed and Cert testbed will coexist : need for the tester of local computers to make destructive/install tests.

◆ Cert testbed will provide us with a stable environment in terms of release and computers.

◆ Will help to expand the use of CVS inside the TSTG.

Conclusions and future

- We do not forget our initial objectives : documentation and install testing

- Focus now on developing test suite and have a more formal approach to test coding (development, naming, integration)

- Cert testbed at CERN will be installed to help test suite development

- We are still reorganizing ourselves