

VISHNU - TMS - Tests report



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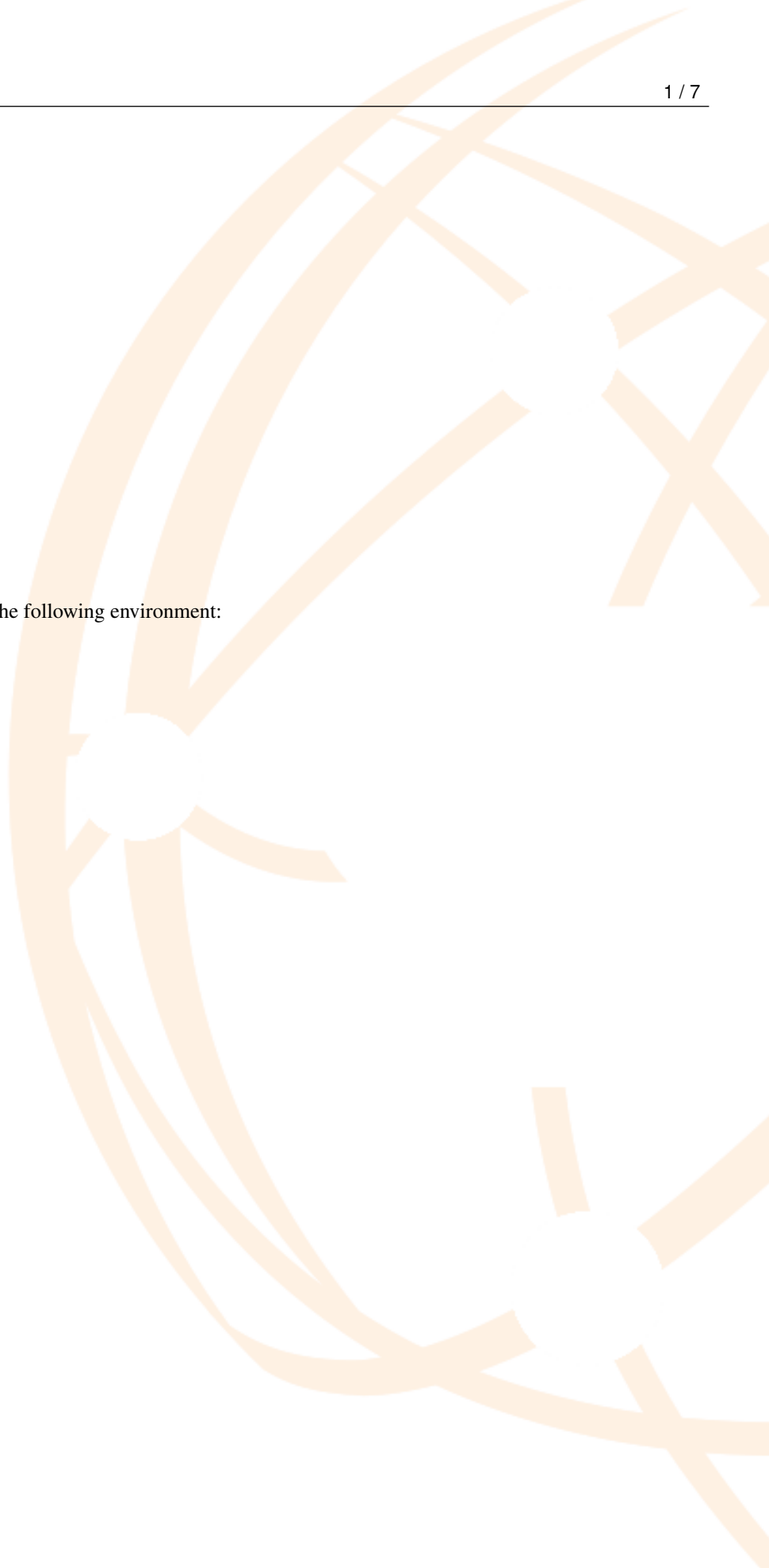
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Chapter 1

Introduction

The tests which follows have been done in the following environment:

- Database used : PostgreSQL 8.4
 - OS used for the test : Ubuntu 10.10
 - Cmake version : V2.6
 - gcc version : V4.3.3
 - DIET version : V2.6.1
 - Batch scheduler : TORQUE V2.5
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Chapter 2

Functional tests

2.1 T1.1 - Submit a job

API command: *submitJob*

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T1.1-B	Normal execution of submitJob	The job identifier is returned	The job identifier is returned	0
T1.1-E1	Bad session key	VishnuException	VishnuException	0
T1.1-E2	Bad machine Identifier	VishnuException	VishnuException	0
T1.1-E3	Bad script content	VishnuException	VishnuException	0
T1.1-E4	Bad script path	VishnuException	VishnuException	0

2.2 T2.2 - Cancel a job

API command: *cancelJob*

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T2.2-B	Normal execution of cancelJob	The job is cancelled	The job is cancelled	0
T2.2-E1	Bad session key	VishnuException	VishnuException	0
T2.2-E2	Bad machine Identifier	VishnuException	VishnuException	0
T2.2-E3	Bad job identifier	VishnuException	VishnuException	0
T2.2-E4	Job canceling by a user who is not an administrator and not the owner of the job	VishnuException	VishnuException	0

2.3 T2.1 - Get job information

API command: *getJobInfo*

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T2.1-B	Normal execution of getJobInfo	The job object is returned	The job object is returned	0
T2.1-E1	Bad session key	VishnuException	VishnuException	0
T2.1-E2	Bad machine Identifier	VishnuException	VishnuException	0
T2.1-E3	Bad job identifier	VishnuException	VishnuException	0

2.4 T2.5 - Get jobs progression

API command: *getJobProgress*

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T2.5-B	Normal execution of getJobProgress	The job progression object is returned	The job progression object is returned	0
T2.5-E1	Bad session key	VishnuException	VishnuException	0
T2.5-E2	Bad machine Identifier	VishnuException	VishnuException	0
T2.5-E3	Bad job identifier	VishnuException	VishnuException	0

2.5 T2.6 - Get one job outputs

API command: *getJobsOutput*

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T2.6-B	Normal execution of getJobsOutput	The job output files are returned	The job output files are returned	0
T2.6-E1	Bad session key	VishnuException	VishnuException	0
T2.6-E2	Bad machine Identifier	VishnuException	VishnuException	0
T2.6-E3	Bad job identifier	VishnuException	VishnuException	0
T2.6-E4	Identifier of job not terminated	VishnuException	VishnuException	0

2.6 T2.7 - Get all completed jobs outputs

API command: *getCompletedJobsOuput*

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T2.7-B	Normal execution of getCompletedJobsOuput	The job output files of all completed jobs are returned	The job output files of all completed jobs are returned	0 and remarks : failure when the script's execution time is very short

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T2.7-E1	Bad session key	VishnuException	VishnuException	0
T2.7-E2	Bad machine Identifier	VishnuException	VishnuException	0

2.7 T2.3 - List job queues

API command: *listQueues*

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T2.3-B	Normal execution of listQueues	The list of queues is returned	The list of queues is returned	0
T2.3-E1	Bad session key	VishnuException	VishnuException	0
T2.3-E2	Bad machine Identifier	VishnuException	VishnuException	0

2.8 T2.4 - List jobs

API command: *listJobs*

ID test	Description of the test cases	Output expected	Output gotten	Error and remarks
T2.4-B	Normal execution of listJobs	The list of jobs is returned	The list of jobs is returned	0
T2.4-E1	Bad session key	VishnuException	VishnuException	0
T2.4-E2	Bad machine Identifier	VishnuException	VishnuException	0

Chapter 3

Stress tests

ID test	Date	Test description	Command(s) tested	Results
STR-SERV-DOWN	05/05/11	The tms sed is stopped and restarted	submitJob	normal job submission
STR-AGENT-DOWN	05/05/11	The SysFera-DS Agent is stopped and restarted		failure
STR-BATCH-DOWN	05/05/11	The batch scheduler is stopped and the command submitJob is launched	submitJob	failure with the corresponding error message

Chapter 4

Load tests

ID test	Date	Test description	Command(s) tested	Results
LOAD-2.1-submitJob	05/05/11	Simultaneous launch of 100 commands	submitJob	normal execution of all commands launched
LOAD-2.1-listJobs	05/05/11	Simultaneous launch of 100 commands	listJobs	normal execution of all commands launched
LOAD-2.1-listQueues	05/05/11	Simultaneous launch of 100 commands	listQueues	normal execution of all commands launched