



P-Grade Grid Portal installation & configuration handson

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Prerequisites



- Software dependencies:
 - Scientific Linux 3.0.8
 - gLite UI 3.0.0
 - GT-2 development headers (use `gtp-build --nosrc gcc32dbg gcc32dbgpthr`)
 - For further details, see: <http://portal.p-grade.hu/v24/index.php?m=6&s=0>
- Hardware requirements:
 - 1 MB memory
 - Strong processor (~3GHz)
 - 20GB disk or more depending on usage

Installation



- Create a user for the portal: `adduser pgportal`
- Unpack the gzipped tarball: `tar zxf pgportal-2.4.1.tgz ; cd pgportal`
- Configure the portal installation with the `portal_config.txt`
 - Be aware that the portal interprets this file as a shell script so quoting is necessary

Configurable items #1



- **HOSTNAME:** hostname of the machine running P-GRADE Portal. Optional the installer can detect it with the hostname command.
- Supporting multiple tomcat installations on the host:
 - **DEFAULT_PORT:** non-secure listening port of P-GRADE Portal
 - **DEFAULT_SECURE_PORT:** HTTPS listening port of P-GRADE Portal
 - **SHUTDOWN_PORT:** shutdown port of Apache Tomcat

Configurable items #2



- Portal appearance:
 - DEFAULT_VO: default VO of P-GRADE Portal. This VO name will appear on the welcome screen
 - PORTAL_NAME: name of the Portal
 - REG_URL: registration URL link on the welcome screen
 - EMAIL: support team e-mail address on the welcome screen
- Automatically generated certificates:
 - KEYSTORE_PASS: Tomcat keystore password for HTTPS key.
 - JAR_PASS: Tomcat keystore password for jar-file key.



Configurable items #3

- MDS2 Query setup
 - MYPROXY_HOSTNAME: hostname of the MyProxy server for MDS2 authentication
 - MYPROXY_PORT: MyProxy port for MDS2 authentication
 - USER_NAME: user name on MyProxy server for MDS2 authentication
- Example workflow store setup:
 - FTP_URL: URL of the example FTP repository
 - FTP_PORT: port of the example FTP repository
 - FTP_USER: login username of the example FTP repository
 - FTP_PASS: password of the example FTP repository

Configurable items #GEMMLCA



- **PWC_ALLOWED_HOSTS**: list here the allowed hosts (FQDNs or IP numbers separated by spaces) for the PWC servlet.
- **GT4_LOCATION**: the path where the gt4 resides. (improper globus location will give security exceptions - see catalina.out)

Configurable files



- GEMMLCA - GT2 mapping:
 - Portal certificate setup for unified GEMMLCA access
 - GT2 and GEMMLCA service pairing for simplified Legacy Code Creation.
 - Named `NGS_CONFIG_FILE`, should be placed next to the `portal_config.txt`
- Hibernate configuration
 - Called `hibernate.properties` next to the `portal_config.txt`
 - The necessary jars should be placed in the `jars` folder of the installer.
 - An example MySQL, and PostgreSQL setup is present in the installer.

The site check script



- Before starting the installation run, this script will test all the dependencies of the portal, and start the installer if they are met:
- `./inst_check.pl`

Checker questionnarrie #1



Example Workflow store, FTP layout requirements



- There should be a file called `$GRIDNAME.xml` for each grid configured in the portal.
- Contents:

Administrative files - Multiple brokers per VO



Administrative files - GRAM/GridFTP Map






Portal startup

- Execute `~/pgportal/portalstart.sh`
- Open a web browser:
 - <http://yourhost:NOSECPORT/gridsphere>
 - <https://yourhost:SECPORT/gridsphere>
- Give the name of the root user and password, then login.

User listing in the portal



RELEASE 2.4.1



P-GRADE portal

Welcome Administration Workflow Certificates Settings Information System

Portlets Users Groups Roles Layouts Messaging

? **User Account Manager** [] []

Display All Users


User Name:	Full Name:	Email Address:	Organization:
gkecskem	Gabor Kecskemeti	kecskemeti@sztaki.hu	MTA-SZTAKI
illes	Szabolcs Illes	S.Illes@westminster.ac.uk	Uow
noam	NoamWeingarten	noam@cpc.wmin.ac.uk	cpc
root	root	root@mut.cpc.wmin.ac.uk	University of Westminster

Create a New User

User administration in the portal



RELEASE 2.4.1

 **P-GRADE** portal

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User Account Manager

Edit User Information

LEAVE PASSWORD FIELD BLANK TO KEEP EXISTING PASSWORD IF EDITING AN EXISTING USER

User Name:

Full Name:

Email Address:

Organization:

Disable account?

Select Roles	Role name
<input type="checkbox"/>	USER
<input type="checkbox"/>	ADMIN
<input type="checkbox"/>	SUPER

Password:

Confirm password:

- Don't forget to add the user to the Szupergrid portlet

