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YAIM Certification

Introduction

This page contains information about the testing and certification activities done before a new release of YAIM is given to PPS. See the Yaim planning page for more information related to YAIM releases.

YAIM certification process

YAIM certification is done in three different stages:

1. **Initial testing:** done by YAIM developers before starting the official certification process.
 - ◆ There is no patch in Savannah yet
 - ◆ YAIM rpms to be tested are in `/afs/cern.ch/project/gd/www/yaim/testing/` (alternatively `http://grid-deployment.web.cern.ch/grid-deployment/yaim/testing`).
 - ◆ New versions of the rpm can appear until the code is mature enough and it's considered to be bug free by the developer.
2. **Certification - Fresh install testing:** when YAIM developers consider the code is ready, certification starts.
 - ◆ A patch in Savannah is open, linking it to the corresponding bugs and patches it fixes. The patch status is **In configuration**.
 - ◆ YAIM rpms are created in `/afs/cern.ch/project/gd/www/yaim/` and they are of 'release candidate' quality. There is no patch directory in the certification repository yet.
 - ◆ Fresh installation is tested in the virtual testbed. New versions of the rpms can appear to fix encountered bugs at this stage.
3. **Certification - Upgrade testing:** when fresh installation testing is finished, upgrade testing can be done.
 - ◆ The patch is moved to status **Ready for certification**
 - ◆ The relevant rpms are created in ETICS [↗](#) and moved to the certification repositories.
 - ◇ SLC3 APT repository string: rpm
`http://lxb2042.cern.ch/gLite/APT/R3.0-cert ↗ rhel30 externals
Release3.0 updates updates.certified internal patchXXX.uncertified`
 - ◇ for 3.0 WMS add to the previous string `externals.condor`
 - ◇ YUM repository: Check the 3.1 Installation and Configuration guide
 - ◆ The certification testbed is then upgraded using the repositories and the upgrade is tested. SAM tests are run to test basic functionality. New versions of the rpms can also appear at this stage but this is less expected to happen than in the previous stages.

For stages 2 and 3, please follow the instructions described in the Certification checklist.

What to test in YAIM

- Testing YAIM's functionalities
 - ◆ functions: local, pre and post functions are working correctly, it is visible, notif printed during configuration ?
 - ◆ correct sourcing of services, node-info.d, vo.d ? variables are correctly overwriting each other ?
 - ◆ does the presence of a new module really overwrite the behaviour of yaim-core ? E.g. a gliteCE is now configurable with glite-yaim-core (old python config) and also with glite-yaim-ce (new configuration) . Both should work , with the same syntax !
 - ◆ stale files after reconfig, stupid error messages, garbage, typos ?
 - ◆ how the environment settings influence the behaviour , YAIM should not take anything from

- the environment everything should be defined in site-info.def
- ◆ Check the functioning of grid-env.csh (it's a big hack, but supposed to work).
- ◆ Check the -check functionality. Not fully implemented, but should not cause error !
- ◆ all the yaim modules should depend on yaim-core !
- ◆ check where the temporary files are created and how (security issue!)
- Testing upgrades
 - ◆ is it possible to install glite-yaim-core with the old and the new corrected metapackage ? The glite-yaim-core should obsolete and provide glite-yaim
 - ◆ testing conflicts
- Testing fresh installs
 - ◆ Is fresh installation works 'out-of-the-box' ?
- Testing SLC4 upgrade /fresh install of UI and WN.
 - ◆ Testing SLC4 install UI/WN
 - ◆ The same yaim is configuring now SLC4 and SLC3 WN with the same syntax , is it true ? Is the GLOBUS_TCP_PORT_RANGE variable correctly set ? With/without comma ?
- Testing different node type combinations
 - ◆ Favorite combinations should be tested like:
 - ◇ CE_torque + BDII_site + SE_classic + MON
 - ◇ CE_torque + BDII_site + SE_classic + MON + UI
 - ◇ CE_torque + BDII_site + MON
 - ◇ lcg-RB + LFC_mysql + MyProxy + BDII(top level)
 - ◇ and similars.... (the ones above used in PPS/Prod)

YAIM Certification reports

- YAIM 3.1.1 Certification
- YAIM 4.0.0 Certification
- YAIM 4.0.0 Certification (second phase)
- YAIM 4.0.0 Certification (third phase)

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