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Big PanDA RPM Build System

Introduction

- This page is evolving. Please keep checking.
- This page contains information about BigPanDA RPM Build System. We use Jenkins CI [↗](#) for BigPanDA RPM builds.
- Feel free to contact JaroslavaSchovancova and TadashiMaeno and TorreWenaus with questions.

Usage of the build system

- Upon every commit to SVN/Git, a RPM package is built.
 - ◆ RPM is built for following PanDA components:
 - ◇ panda-server, panda-common, panda-jedi: [NOARCH](#), [SRC](#)
 - ◇ monitor, pandamon (Classic and Platform monitoring for ATLAS): [NOARCH](#), [SRC](#)
 - ◇ bigpandamon-core, bigpandamon-atlas: [STABLE-NOARCH](#), [STABLE-SRC](#), [DEV-NOARCH](#), [DEV-SRC](#)
 - ◆ Build dashboard is available [too](#).
- Instructions for manual RPM build, tagging, merging: [BigPanDARPMbuildManual](#)

Automatic smoke test of deployed monitoring packages

- Please see `BigPanDARPMAutoSmokeTest` for more details.

Installation of the RPM packages

- As of 2014-Mar-17 the RPM repository is available world-wide.
- As of 2014-Mar-10 the RPM repository is available only inside the CERN network.
- pandabuild.repo **file location:** `/etc/yum.repos.d/pandabuild.repo` or `/etc/yum-puppet.repos.d/pandabuild.repo`
- pandabuild.repo **file content:**

```
# cat /etc/yum-puppet.repos.d/pandabuild.repo
[pandabuild]
name=BigPanDA Repository
baseurl=https://pandabuild.cern.ch/$basearch
sslcacert=/etc/grid-security/certificates/CERN-GridCA.pem
enabled=1
gpgcheck=0
protect=1
priority=20
```

- **currently available:**

- ◆ **stable:**

- ◇ https://pandabuild.cern.ch/x86_64/repodata/repomd.xml
- ◇ <https://pandabuild.cern.ch/SRPMS/repodata/repomd.xml>

- ◆ **continuous/unstable:**

- ◇ <https://pandabuild.cern.ch/unstable/repodata/repomd.xml>
- ◇ https://pandabuild.cern.ch/SRPMS_unstable/repodata/repomd.xml

- **test that repository is available for you:**

```
# repoquery --location bigpandamon-lsst-0.0.1-1.noarch
https://pandabuild.cern.ch/x86_64/bigpandamon-lsst-0.0.1-1.noarch.rpm
```

Administration of the build system

- Packages are built by Jenkins instance on `aipanda004`. It runs under `atlpam` account. Ask JaroslavaSchovancova and TadashiMaeno for more details.
- Packages repository is in `/data/build`

The PanDA build machine

- The PanDA RPM repository is available also outside the CERN network - DNS alias pandabuild.
- creation of the RPM repository:

```
# yum install createrepo
# mkdir -p /var/www/html/build/{SRPMS,x86_64}
# mkdir -p /var/www/html/apt/
# ./create-my-repo.sh
# service httpd restart
```

◆ where

```
# cat create-my-repo.sh
#!/bin/sh

destdir="/var/www/html/build/"

for arch in x86_64
do
    pushd ${destdir}/${arch} >/dev/null 2>&1
        createrepo .
    popd >/dev/null 2>&1
done
```

- issues: [ASPDA-38](#), [ASPDA-45](#), [ASPDA-46](#),
- related issues: [ASPDA-61](#)

Major updates:

-- JaroslavaSchovancova - 10 Mar 2014

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This topic: PanDA > BigPanDARPMbuildSystem

Topic revision: r11 - 2014-07-29 - JaroslavaSchovancova



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