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Big PanDA RPM Auto Smoke Test

Introduction

- This page is evolving. Please keep checking.
- This page contains information about automatic smoke tests for BigPanDAmon RPMs. The RPMs are created with the BigPanDARPMbuildSystem.
- Feel free to contact JaroslavaSchovancova with questions.

QA smoke test suite

- The QA smoke test suite is available on GitHub:

<https://github.com/PanDAWMS/panda-mon-qa/tree/master/pandamonqa>

- ◆ You can obtain it as

```
# cd $WORKDIR
# git clone https://github.com/PanDAWMS/panda-mon-qa.git
```

- ◆ Please read the README file to navigate around configuration and execution.

- There are several predefined smoke tests. For each of the tests a list of URLs to visit is predefined. Each developer is responsible for keeping this URL list updated.
- We use the [twill](#) library to visit each URL, expecting page request to return the HTTP status code `200 OK`.
- When HTTP status code is `200 OK`, we proceed to dig for a pre-defined string in the page code using the [BeautifulSoup](#) library. The predefined string is either pure string, or a regular expression. It can be specified as a part of the URL list configuration file.
- When page request HTTP status code differs from `200 OK`, or the expected regular expression or string is not found in the page source, error is listed in the end of the suite output.
 - ◆ If the HTTP status code of the page requests differs from `200 OK`, the suite exit code may differ from 0.
 - ◇ Suite can be configured to ignore predefined list of errors, enforcing exit code 0. They can be presented either by Django, or by Apache.
 - Apache errors patterns represent string in the `title` element of the page.
 - Usually page request returned with HTTP status code 500, 503.
 - Django errors patterns represent string in the description part of the error summary (`pre` element inside the `div` element with `id summary`).
 - Any error presented by Django.
 - ◇ Page dump for requests (issued by JenkinsCI cron job) with returned HTTP status code other than `200 OK` are stored in subdirectories of <https://pandabuild.cern.ch/qa/>, e.g. https://pandabuild.cern.ch/qa/bigpanda_root/.

Automatic smoke test of a deployed RPM

- As of 2014-07-29, the automatic smoke test of a deployed RPM is available for any update in RPMs `twdev-bigpandamon-lsst` and `twdev-bigpandamon-core`.
- The RPMs are built using `BigPanDARPMbuildSystem` (using `JenkinsCI`).
 - ◆ Corresponding Jenkins projects: `TW-DEV-bigpandamon-lsst`, `TW-DEV-bigpandamon-core`.
- The built RPM is not placed into expected repository `x86_64`, but into the `QA_incoming` buffer.
- At the end of the RPM build job, the QA job, `QA-TW-DEV-bigpandamon-lsst`, is initiated.
- The QA job then installs the new RPMs to the integration machine (`aipanda022`, alias `bigpanda-old`), and runs the QA suite with configuration `aipanda022_root` against the freshly built RPMs deployed to the integration machine.
- If the QA job finishes successfully, the RPM is pushed to the production repository `x86_64`.
- If the QA job fails, the RPM is pushed to `QA_failed` buffer, and is not made available through the production repository `x86_64`. In addition, email notification with the QA job log is sent to list of predefined users (`JaroslavaSchovancova` and `TorreWenaus`) to take a timely action: either fix the monitoring code and build a new RPM, or update the QA suite configuration or code.
- Configuration files and the scripts are available in GitHub:
<https://github.com/PanDAWMS/panda-mon-qa/tree/master/auto>.

Major updates:

-- JaroslavaSchovancova - 29 Jul 2014

Responsible: JaroslavaSchovancova

This topic: PanDA > BigPanDARPMAutoSmokeTest

Topic revision: r2 - 2014-08-29 - JaroslavaSchovancova



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