decisionengine

Release 1.1.1

Fermi Research Alliance, LLC.

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The decisionengine_modules package contains provider specific implementations of base classes provided by the decision engine framework.

CHAPTER

ONE

RELEASE NOTES

1.1 Release 1.6.0

In this release:

- Adapt to decisionengine framework migration to setuptools.
- Drop cmake step before running unit tests.
- Enhanced logging.
- Bug fixes.

1.1.1 Issues fixed in this release

275 : (b639a74)

1.1.2 Full list of commits since version 1.5.0

f93831c : enhanced logging and error handling in util directory (#320)

798972f : replaced method_whitelist with allowed_methods (as former os deprecated) (#319)

b8af4b3 : Update Jenkins pipeline configuration (#318)

b639a74 : Handle KeyError exception (#317)

4c9e25e : Add about.py for useful names (#310)

48e725f : update unittest document

36b799e : Configure DE Modules to use DE Framework with setuptools (#316)

45fc425 : Move to raw flake8 test action (#315)

478b0a5 : Update gh-actions to best practices (#311)

6285f49 : Drop obsolete github action (#309)

911fef7 : Do a limited pin on dependencies (#308)

ab096a8 : Sync-up .gitignore (#304)

cd7e668 : Move to raw github actions (and codecov.io) (#298)

4a997d4 : Remove building of C++ Logic Engine from unit tests

1.2 Release 1.5.0

In this release:

- New AWS bill calculator
- Bug fixes

1.2.1 Issues fixed in this release

- 271 : Change configuration so the bill-calculator-hep-mapsacosta library doesn't write stuff to stdout (5410c46)
- 283 : Change DEAccountConstants.py to allow more variables through (7a65032)
- 293 : Unit test tests/test_job_q.py is failing (f5006fb)
- 263 : Python3 encodes hex strings differently, resulting in malformed htcondor classads (c16f0)
- 289 : Travis CI fails after decisionenigine transitioned to pybind11 (2bec1da)
- 281 : New exception in NERSC newt get_usage (398dc42)

1.2.2 Full list of commits since version 1.4.2

5410c46 : new bill calculator package (#303)

7a65032 : Resolving issue 283 (#301)

1a2c3e4 : Fix syntax errors and pylint bits (#300)

976c4a4 : Minor linting of actions (#297)

c43f311 : Drop redundant action, pep8speaks is already doing this (#296)

10691e4 : Add support to use custom docker layer as base of the docker image (#295)

f5006fb : fix for unit test test_job_q issue 293 (#294)

0b588ef : Update workflow per changes at github (#292)

7841d19 : Updated Jenkins configuration documentation (#291)

c08ffce : edited release notes

c16f0ac : Another fix to malformed strings (#288)

2bec1da : Fix #289 where TravisCI is missing changes from https://github.com/HEPCloud/decisionengine/commit/ea7ade57ca825afb0afbfa5ebd49820b16786d8b (#290)

8647bb2 : Update to current python test matrix (#287)

234a78e : update release notes

398dc42 : decisionengine_modules/NERSC/util: Added more 5xx codes to retry (#285)

d2df861 : force docker pull when building the docker container to make sure to use an updated base layer (#280)

9a78d22 : added 1.4.0 release notes

5d3b7ec : Updating Dockerfile for unittest (#279)

e16531e : Provide default for util function. (#278)

02f1738 : set RPM version number to 1.5.0rc and drop py3 suffix (#277)

664b9fe : Add timeout support for unit test on Jenkins for DE modules repo (#274)

e392a3c : Added initial unit test for glide_frontend_element.py (#269)

2f0069f : Updated DE modules Jenkins documentation

1.3 Release 1.4.2

In this release:

- Bug fixes to 1.4.1 release

1.3.1 Issues fixed in this release

- 282 : Decision Engine classad encoding problems make multiple exceptions in the factory (c16f0ac)

1.3.2 Full list of commits since version 1.4.1

c16f0ac : Another fix to malformed strings (#288)

1.4 Release 1.4.1

In this release:

- Bug fixes to 1.4.0 release

1.4.1 Issues fixed in this release

- 281 : New exception in NERSC newt get_usage (4d1301e)

1.4.2 Full list of commits since version 1.4.0

4d1301e : decisionengine_modules/NERSC/util: Added more 5xx codes to retry (#285)

1.5 Release 1.4.0

In this release:

- Works with python3 glideinWMS package
- Uses new AWS bill calculator
- Improved Jenkins CI pipeline

1.5.1 Issues fixes in this release

- 59 : Replace AWS Billing and GCE Billing modules with revamped bill Calculator code (71f25ea)
- 246 : Modify NERSCAllocation main() so that it can be run standalone (11ce772)
- 263 : Python3 encodes hex strings differently, resulting in malformed htcondor classads (13a24e4)
- 255 : Add option to config of condor/sources/job_q.py and slots.py (6f65af4)

1.5.2 Full list of commits since version 1.3.0

42f62d3 : remove py3 from package name

6e56c4d : bump version number

6433dba : Add support to test any branch in Jenkins for DE modules repo (#276)

60db1b3 : Accommodate breaking changes to framework's configuration system. (#273)

13a24e4 : Fix263 (#272)

a866e47 : Correct 'file_cache is unavailable when using oauth2client >= 4.0.0' (#267)

2c82064 : Fix requirements.txt for #266 (#268)

6f65af4 : A more generic solution for the issue 255 (#265)

df08cb4 : Speed up tests. (#264)

057e578 : Update Jenkins pipeline to properly test closing PR (#262)

a28f272 : Adding Jenkins pipeline documentation (#261)

71f25ea : T59 (#258)

90b6580 : Updating Jenkins pipeline configuration (#260)

b4bd759 : dealing with 2 columnsindividually (#257)

11ce772 : decisionengine_modules/NERSC: Can run NerscAllocationInfo.py without (#256)

4a70465 : doc: add release notes

1.6 Release 1.3.0

In this release:

- Introduced Jsonnet based configuration system
- Improved error handling

1.6.1 Full list of commits since version 1.2.0

e8c8e24 : Update to split a tuple key into two separate keys, this allows python config file to be JSON compliant config file (#254)

fbb5d28 : add jsonnet dependency in build/scripts/utils.sh for unit tests (#252)

95a0a32 : decisionengine_modules/glideinwms: Added retry to factory queries (#250)

77f894a : Aws (#249)

3be5be1 : Set theme jekyll-theme-slate

a73e7f8 : Doc (#247)

f8aa96d : Adding editor config file, see https://editorconfig.org/ (#248)

1ab1720 : Issue no. 237 (#245)

5edc8f9 : Issue 227 (#243)

e6047f2 : GCE channel goes OFFLINE on a timeout (#242)

63e3627 : Aws billing (#241)

c3626b9 : 1.1.3/fix (#239)

ae7c5a6 : Jenkins pipeline improvements (#236)

310befd : T198 (#235)

a65886d : Fix import as reported in : https://github.com/HEPCloud/decisionengin… (#232)

93711cc : Run coveralls even if tests fail (#229)

03d763a : Jenkins pipeline improvements (#230)

f48d30f : Fix/223 (#228)

c8aa262 : github ticket 199 (#222)

0323bda : Address : https://github.com/HEPCloud/decisionengine_modules/issues/224 (#226)

62e4df6 : Add support to run CI on Jenkins (#221)

5ab1541 : bump master version to 1.2.0 (for now) (#219)

bc19c65 : decisionengine_modules/NERSC: Added retry loop for NERSC API Calls (#220)

41a50de : Sync up pep8speaks and run_pylint.sh with decisionengine settings (#218)

db4634f : silence pylint error (#217)

1b95141 : Fix whitespace around operator error

746ea38 : ignore W503

8a8b5f4 : remove unused variable

a6668bf : fix PEP8 warnings

13773ee : address pep8 warnings

6bea4ca : silence pylint error

f589895 : Pass sort=True parameter to fix future warning (#215)

a1d0507 : fixing pep8 warning

a10bd17 : debugging one import error

ec501ad : make coveralls.io links work

deab1a7 : T201 (#204)

69f2645 : Add coveragerc

6d8a5f5 : decisionengine_modules/NERSC: Make Nersc API call backward-compatible with old config (#196)

a7e0af9 : Only run Github Actions for python3.6 (#24)

1.7 Release 1.2.0

In this release:

- Switched to python3
- NERSC newt interface adapted to changed NERSC RESTful API
- Improved unit tests
- Added Jenkins CI pipeline

1.8 Patches:

30d928b : clone version 1.2.0 of decisionengine

ae7c5a6 : Jenkins pipeline improvements (#236)

310befd : T198 (#235)

a65886d : Fix import as reported in : https://github.com/HEPCloud/decisionengin… (#232)

93711cc : Run coveralls even if tests fail (#229)

03d763a : Jenkins pipeline improvements (#230)

f48d30f : Fix/223 (#228)

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6d8a5f5 : decisionengine_modules/NERSC: Make Nersc API call backward-compatible with old config (#196)

a7e0af9 : Only run Github Actions for python3.6 (#24)

CHAPTER

TWO

DEVELOPER DOCUMENTATION

2.1 Decisionengine_modules

2.1.1 Prerequisites:

```
yum install postgresql11 postgresql11-server
sudo localedef -v -c -i en_US -f UTF-8 C.UTF-8 # (needed for tests)
```

2.1.2 Test

```
git clone https://github.com/HEPCloud/decisionengine_modules
./decisionengine_modules/.github/actions/unittest-in-sl7-docker/entrypoint.sh
```

CHAPTER

THREE

JENKINS CI PIPELINE

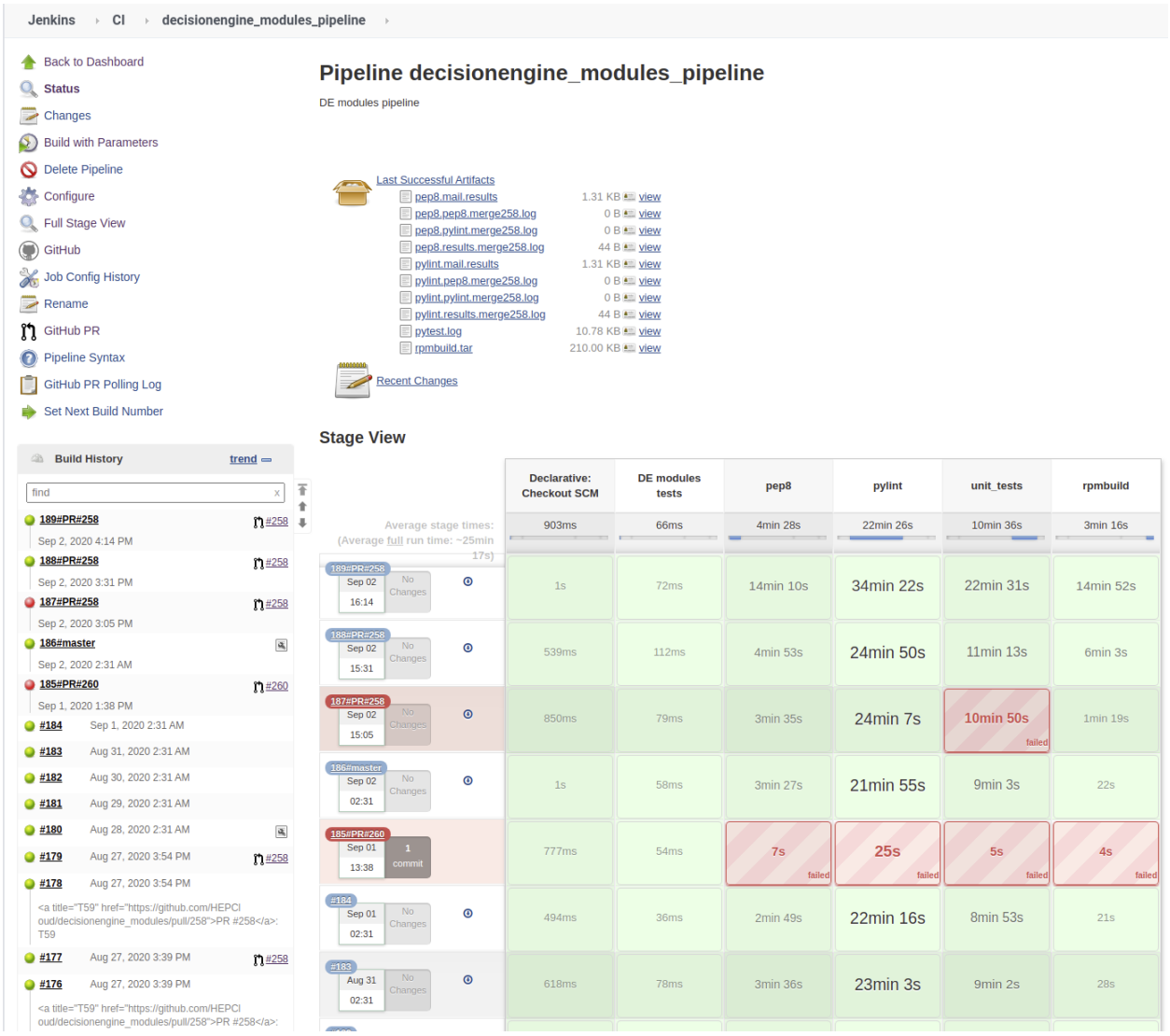
3.1 Decisionengine modules CI with Jenkins pipeline

Jenkins dashboard with Decisionengine modules CI results is available here.

A CI build is triggered any time a PR is created/closed or a commit is made to an existing PR.
There are also *nightly CI builds* to test a list of predefined branches.

The Jenkins pipeline runs *pep8*, *pylint* and *unit_tests* test suites alongside the *rpmbuild* stage.

The Jenkins dashboard looks like this:



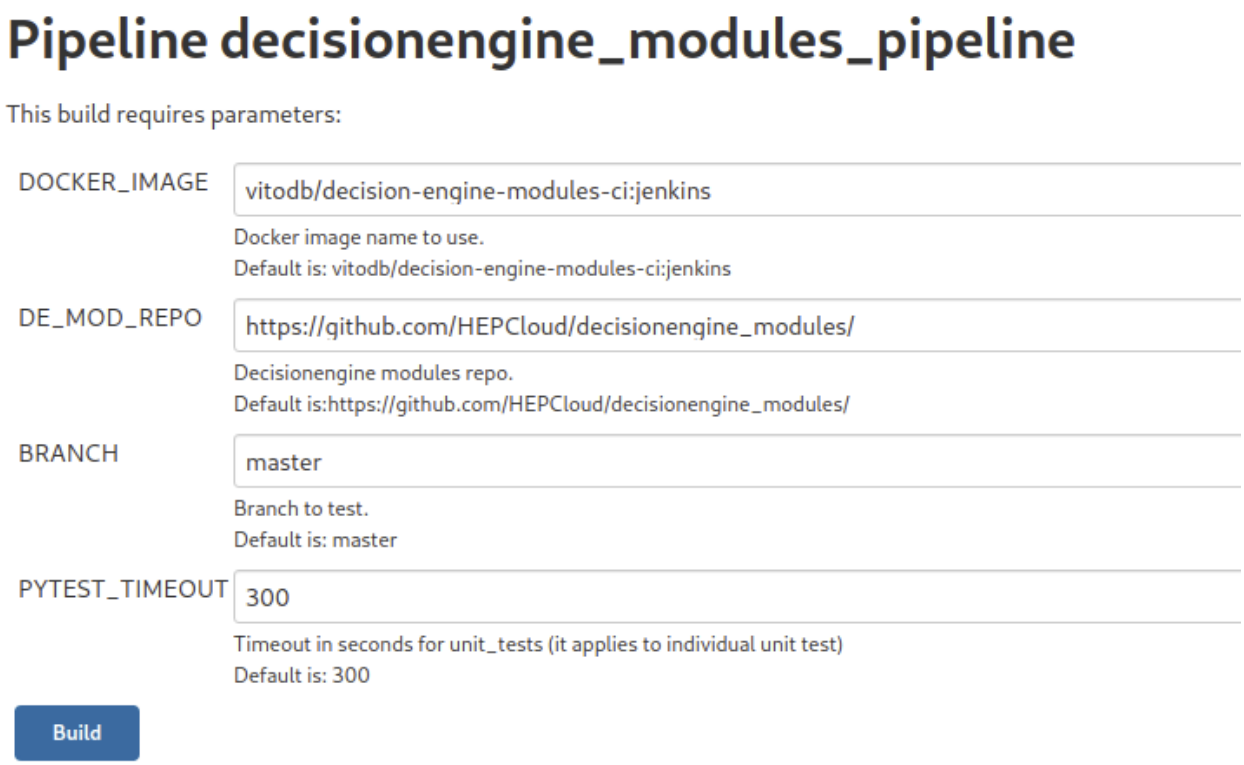
On the bottom left side there is the list of recent CI builds that are named after the PR or the branch tested.
On the bottom right side the dashboard shows for each CI build detailed status for each test suite.

Hovering the mouse over the *status box* for each CI build stage, a tool-tip with a button to access log details shows up.

Next to the build number the symbol gives access to a menu with the list of artifacts stored for that build. Those artifacts include logs and the tarball with RPMs.

From the panel on the left side it is possible to access the PR on GitHub by clicking on the PR icon that looks like this #258.

On occasion it could be useful to trigger a manual CI build to test a branch on the official DE GitHub repository or on the user fork. For this purpose, on the top left panel the user can click on the Build with Parameters button, and this panel shows up



the user can modify these parameters to customize what code to test with the CI build.

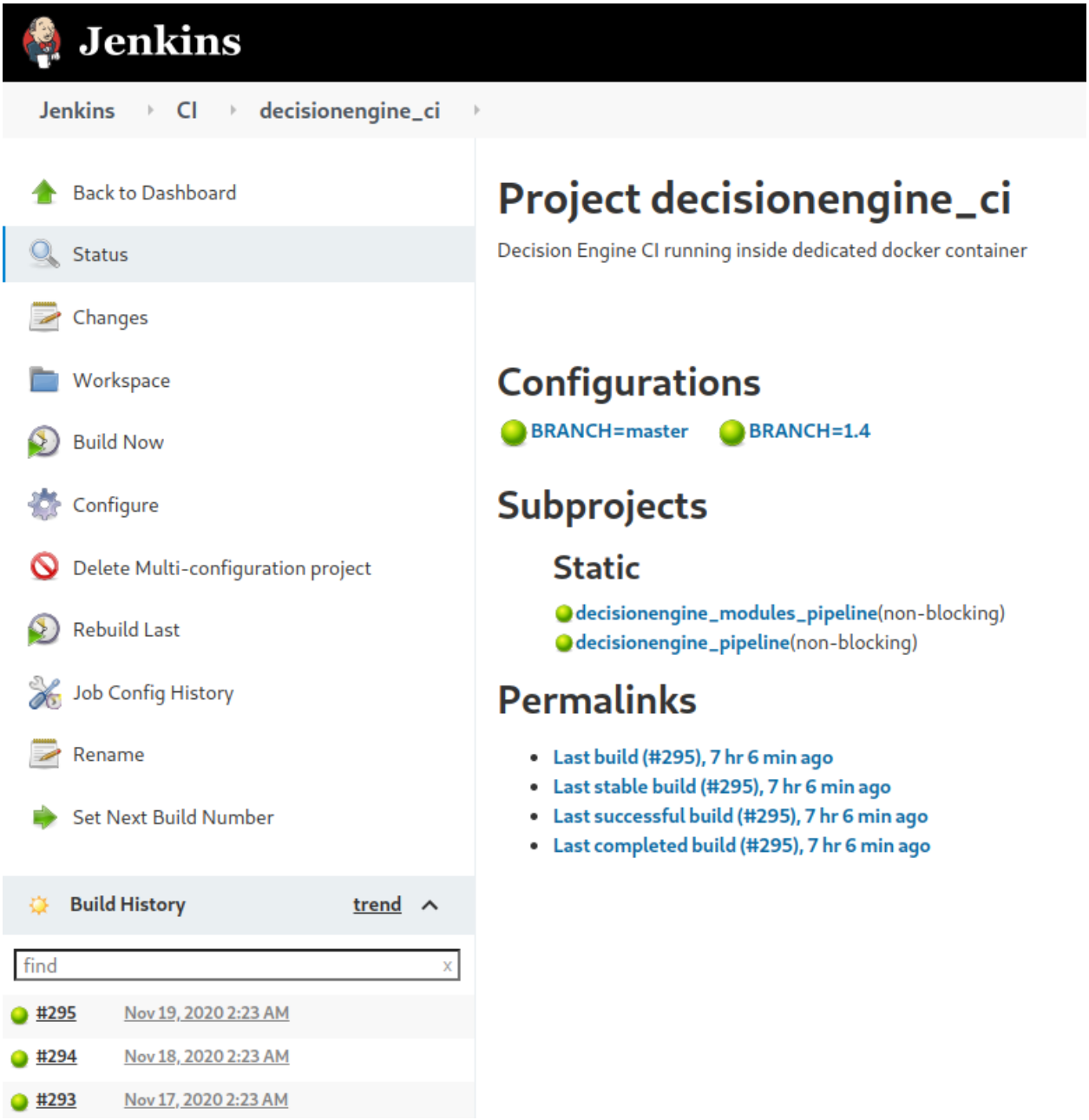
The *DE_MOD_REPO* parameter can point to the user fork or to the main repository.
The *BRANCH* parameter can point to the desired branch to test.
The *PYTEST_TIMEOUT* parameter is the timeout in seconds for *unit_tests*.

When ready, by clicking on the *Build* button, the CI build will start.

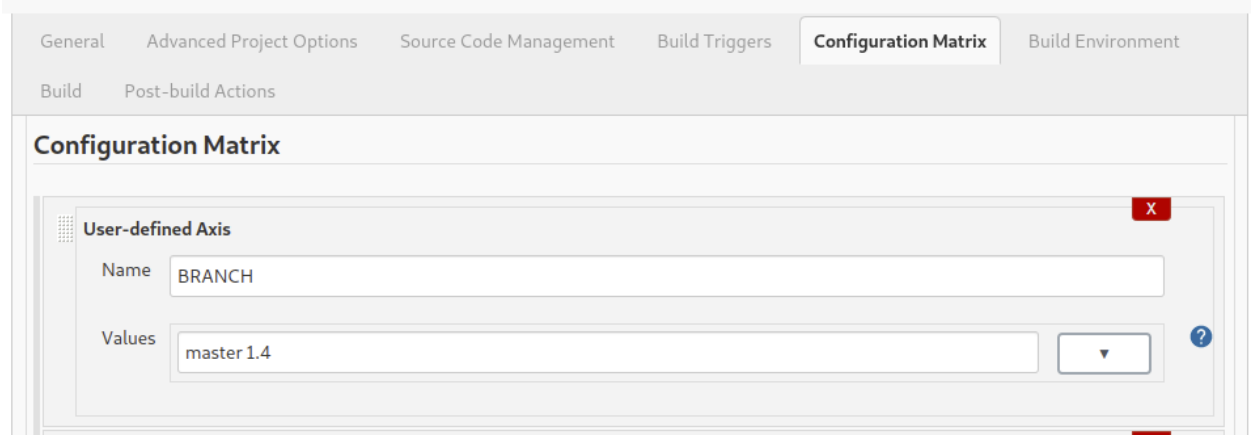
The pipeline configuration is part of the decisionengine_modules repo.

3.1.1 Nightly CI build configuration

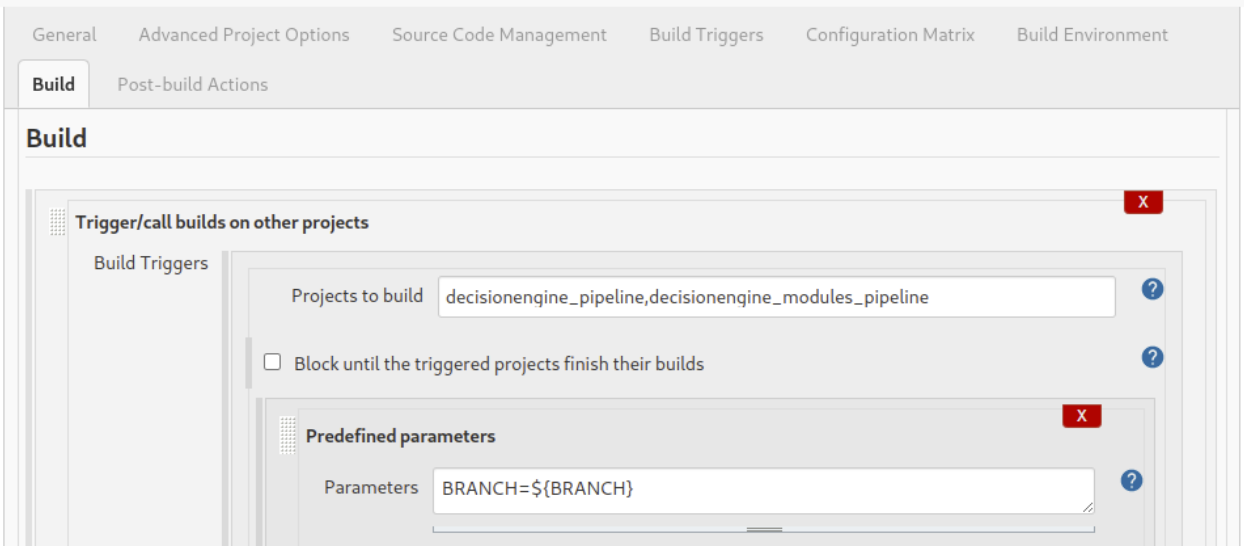
The nightly CI build for Decisionengine framework uses this Jenkins project that triggers a CI build using the Jenkins pipeline described above to test a list of predefined branches.



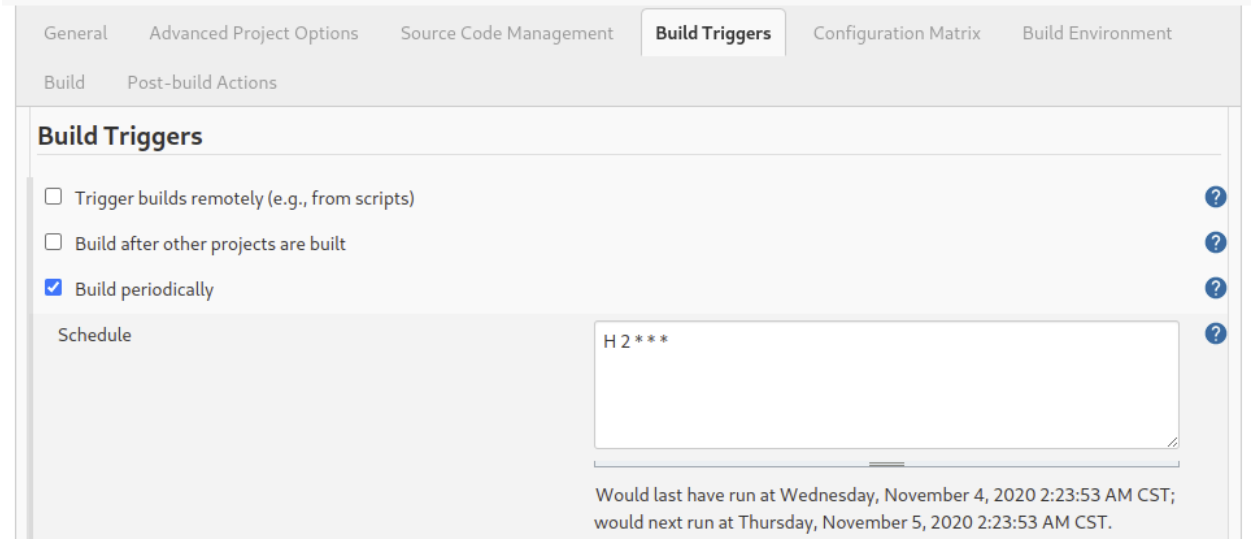
Branches to test are defined using the project matrix as shown in the picture below.
Each branch in the list (here *master* and *1.4*) spawns an independent CI build.



In the *Build* section of the configuration it is set the list of Jenkins subprojects to be triggered, in this case we have *decisionengine_pipeline* and *decisionengine_modules_pipeline*.
The *Parameters* text box is used to override parameters of each Jenkins subproject with a custom value.
In total this Jenkins project triggers 4 CI builds, i.e. 2 branches X 2 Jenkins subprojects.



Finally the *Build Triggers* section is used to setup the schedule for the periodic build,
in this case it is scheduled to run at about 2 AM.
Jenkins will choose the actual time depending on the actual load on the system.


General
Advanced Project Options
Source Code Management
Build Triggers
Configuration Matrix
Build Environment
Build
Post-build Actions
Build Triggers
Trigger builds remotely (e.g., from scripts)
Build after other projects are built
Build periodically
Schedule
H 2 * * *
Would last have run at Wednesday, November 4, 2020 2:23:53 AM CST;
would next run at Thursday, November 5, 2020 2:23:53 AM CST.

CHAPTER

FOUR

SOURCE CODE

4.1 Welcome to decisionengine_modules's documentation!

4.1.1 setup module

4.2 Indices and tables

- genindex
- modindex
- search

CHAPTER

FIVE

INDICES AND TABLES

- genindex
- modindex
- search