decisionengine modules

Release 2.0.0

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CONTENTS

1	Release Notes	3
2	Developer Documentation	21
3	Jenkins CI pipeline	23
4	Source code	29
5	Indices and tables	31

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

CONTENTS 1

2 CONTENTS

CHAPTER

ONE

RELEASE NOTES

1.1 Release 2.0.2

This is mainly a bug fix release.

Some features were added: - Monotoring of the glideinwms module via Prometheus - Initial version of a Rigetti source - More flexible LogicEngine: Fsctory Entries categories are now configurable

1.1.1 Issues fixed in this release

- 428: Decision engine 1.7.3 bug too many open file descriptors in glide_frontend_element.py
- 427 : Set CONTINUE_IF_NO_PROXY to False to allow hybrid configuration

1.1.2 Full list of commits since version 2.0.0

- 16e1751: update GWMS transforms This update improves handling of factory-entries data product.
- 0296667: Add initial Rigetti source
- 9d199a5: Update refresh_entry_token to use context managers
- d45b799: [pre-commit.ci] auto fixes from pre-commit.com hooks
- 7b37e83: Renamed Variables (REQ_IDLE_GLIDEINS & REQ_MAX_GLIDEINS) and stored them into a global dictionary.
- d7d0849: Started moving metrics into global dict
- b1e56f0: added req_idle_glidens & req_max_glidens metrics
- cee9652: Started to add NUMBER OF JOBS, NAME OF GROUPS, STATUS OF JOB METRICS
- 893137c: Added Number_of_jobs metric.
- e530c10: Docker container and test setup for EL8
- ea02fc8: Test case with no glideins.
- 4ae0bab: One monolithic factory-entries data product.
- cc6b01a: Merge pull request #436 from vitodb/vito_fix_de_client_call
- a6744f1: Fix de_client call This is required to allow de_client to get its output returned as text string rather then using a logger.
- f2057d1: Merge pull request #433 from jcpunk/coverage

decisionengine modules, Release 2.0.0

4f6dffd: Merge branch 'master' into coverage

0922c6d: No longer need to pin coverage version

57a5599: Set upper limit version for flake8. This is needed to have pytest-flake8 and flake8 versions working together.

6bf9b48: Set default glidein params on GlideFrontendElement

3ce646a: Set CONTINUE IF NO PROXY to False

2290fb4: Updated release notes for 2.0.1 and porting of 1.7.3

1.2 Release 2.0.1

Patch level (bug fix) release.

1.2.1 Issues fixed in this release

1.2.2 Full list of commits since version 2.0.0

6f2db85: Fix coverage reporting.

a764562: Silence warnings that are beyond our control or are irrelevant.

cc481e9: Test that duplicate column names and empty dataframes are properly handled.

76e1085: Fix NERSC FOM test.

f67df9d: Cleanup tests.

51c6e75: Work around pylint bug.

3eb1e92: Ensure setuptools is up-to-date in GitHub actions; also update actions.

bfe45e5: in dataframe_for_entrytype take care of empty datablocks

5223daf: Enable token proxy hybrid GWMS configuration

265dc8e: Fix pre-commit node version to 17.9.0, the last to support SL7.

7f5922f: Single point of maintenance for entry types.

0125962: Support additional queries according to the entrytype/logic-engine fact.

f685f24: Use Pandas concepts.

331a284: Testing cleanups.

05b605e: Remove unnecessary code.

0b9e6c7: Fix pyupgrade version for python 3.6 compatibility

9f8dddb: Further cleanups for testing glidein frontend element.

0292842: Remove unnecessary testing classes.

fcd1a40: Added cross-package link in the documentation

a35c2e8: Updated 2.0 release notes and indexes, ready for 2.0.0

1.3 Release 2.0.0

This release series follows 1.7. A lot started to happen in 1.7.0 and has happened since, so we felt it was proper to change the major version number. We are proud to introduce Decision Engine 2.0.0 to outside users: it provides a friendlier installation procedure and configuration samples to test it on all resources supported by the GlideinWMS Factory, like OSG, some HPC resources and commercial cloud providers. The decisionengine_modules is the standard library of modules distributed to support the main sources, transformations and publishers of the Decision Engine. See also the Release Notes of decisionengine, the Decision Engine framework.

This release features:

- · Adopt new Framework architecture for the sources
- Separation from the GlideinWMS Frontend. Decision Engine still shares some libraries with GlideinWMS but you don't need any more to install and configure the Frontend.
- Structured logging. Improved python logging and adoption of structured logs format that will increase the semantinc content of the messages and ease the export of information for dashboards and Elastic Search.
- Monitoring via Prometheus.
- Added support of CentOS8 (RHEL7 is still out main platform)
- Configuration example using HTC resources via GlideinWMS Factory
- Decision Engine is distributed under the Apache 2.0 license
- We increased our CI tests including also code auto-formatting and license compliance. We introduced integration tests and we are proud of our over 95% unit test coverage.

Note: decisionengine_modules now requires GlideinWMS 3.9.4. The vofrontend installation and configuration is no more needed, decisionengine_modules now depends from the GlideinWMS vofrontend-lib. Check the new instructions for the changed configuration of the glideinwms module.

1.3.1 Issues fixed in this release

- 353 : yum update decisionengine-standard-library doesn't detect and pull in decisionengine_modules
- 282 : Decision Engine classad encoding problems make multiple exceptions in the factory
- 349 : Minor issue setup tools decisionengine_modules
- 363: Replace AWSOccupancy and AWSSpotPrice classes with SourceProxy + transforms
- 253 : Different modules are using different retry parameters in config
- 348 : Name convention on bill_calculator_hep vs. billing_calculator_hep
- 361 : glide_frontend_element.py throws logger exception in 1.7.0rc3

1.3. Release 2.0.0 5

1.3.2 Full list of commits since version 1.7.0

```
d605ab0: Added changelog file for developers curated list of changes
cc0b18a: Adding 1.7.2 release information
eb40d1e: Updated release notes, ready for 2.0.0 RC4
53b2fe4: The rpm-build workflow has been updated to include the workflow_dispatch action me chanism. This allows
to trigger this action through a GitHub API or directly through the action dashboard, This PR also customize the RPM
artifact file name.
cd52b39: Catch exceptions when no VMs running in GCE
9044b64: Add token authentication to the glideinwms module
97ca32a: Modified pre-commit bot suggestions. Avoid pyupgrade that requires pytohn 3.7
95a7d7b: Test the arguments used to call publish_to_htcondor.
27f0f4b: Adjust code-coverage configuration to display code in browser.
3addf20: Make sure variables are defined before they're used.
75381df: Improve fe_group_classads test.
ed2a8b4: Check DecisionEngineMonitorManifests for empty DFs
e7a247b: Fix GlideClientGlobal create_invalidate_constraint
f0819b1: pin pytest version
ad59fed: [pre-commit.ci] pre-commit autoupdate
0fc20e5: Added unlinked release notes for DEM 2.0.0
123dd2b: Drop extra lines
0177318: Rename product so that translation is not necessary.
94e334c: Explicitly pass .coveragerc to pytest.
04456a9: Updated documentation for 1.7.1 release
240d937: [pre-commit.ci] pre-commit autoupdate
f054532: Use pre-commit.ci rather than local actions
e2bc8d8: Update GlideinWMS dependencies
4dfefb1: Add SPDX blurbs.
a0889aa: Update pre-commit hook versions and accommodate python-debian issue.
7fd1c9c: Change gwmw module to read cfg from DE framework
d57ac6e: Set Apache 2.0 license and added REUSE compliance
cf43119: Set fail-fast to false to allow py3.6 tests to complete also when higher version fail. Temporarly downgraded
from py3.10 to py3.9 because the condor dependency is not available yet for py3.10.
e2707e5: Ignoring E203, whitespace after ":", since black is adding the whitespace
b0e3526: Remove modules that inherit from SourceProxy. Inheritance from SourceProxy has been forbidden by
PR#526. In this commit it has been removed the SourceProxy module GCEResourceLimits that is not used.
```

208a660: Revert "Add jsonnetfmt hook"

efbf6b9: Add jsonnetfmt hook

9140330: Recasting AWSOccupancy, AWSSpotPrice and associated unit tests as Transforms AWSOccupancy and AWSSpotPrice source proxies will be handled at config level

81adb29: Start testing against python 3.10

a9c1f3c: Support retries for contacting Graphite.

3bd68e4: Fix some errors, most caught by lgtm.

89e21f0: Simplify some code paths

63f6315: Homogenize parameter-naming.

325ea37: Update pre-commit hooks via pre-commit autoupdate

ee7d45c: More logging improvements.

901291c: Take advantage of simplified logging.

f4752ab: Fixup pre-commit hooks

ad66754: Add Linters task

ca61ae3: Update to latest setuptools_scm

3ad934b: Fixed project name

ec2a94e: Added 1.1 release notes

1.4 Release 1.7.5

Added support for NERSC SuperFacility API.

1.4.1 Issues fixed in this release

• 234 : Prepare code for new NERSC "superfacility" api

1.4.2 Full list of commits since version 1.7.4

a85098a: Last update to add KeyError

defb011: New Nersc SuperFacility code in the branch 1.7

83e6b88: Updated release notes for 1.7.4

1.5 Release 1.7.4

This release fixes token+proxy hybrid configuration.

1.4. Release 1.7.5

1.5.1 Issues fixed in this release

- 428: Decision engine 1.7.3 bug too many open file descriptors in glide_frontend_element.py
- 434 : Set CONTINUE_IF_NO_PROXY to False to allow hybrid configuration

1.5.2 Full list of commits since version 1.7.3

80d9041: Update refresh_entry_token to use context managers

62a51f3: Merge pull request #434 from BrunoCoimbra/1.7

2833e82: Set default glidein params on GlideFrontendElement

ac427d9: Set CONTINUE_IF_NO_PROXY to False

245f316: Updated release notes for 1.7.3

1.6 Release 1.7.3

Enable token+proxy hybrid configuration, to send a proxy in a ddition to tokens to support OSG Gratia probes.

1.6.1 Full list of commits since version 1.7.2

da693a7: Enable token proxy hybrid GWMS configuration

3c75da5: Updated release notes, ready for 1.7.2

1.7 Release 1.7.2

This release features:

• Add token authentication to the glideinwms module.

1.7.1 Full list of commits since version 1.7.1

82119a2: Add token authentication to the glideinwms module

1.8 Release 1.7.1

Patch level (bug fix) release.

1.8.1 Issues fixed in this release

• 369 : Add retries to all publishers that contact Graphite (e1c28e7)

1.8.2 Full list of commits since version 1.7.0

dd4fb50: Homogenize parameter-naming.

e1c28e7: commit da19f6fd3c81d5a8518dc6e6028fd5853df91279 Author: Kyle Knoepfel@fnal.gov> Date: Thu Sep 30 21:45:50 2021 +0000

e56c4d2: Fixing issues reported by flake8 and by unit tests for 1.7 branch

1.9 Release 1.7.0

This release features:

- Adopt new produces-consumes decorators introduced in the Framework
- Added structured logging. Improved python logging and adoption of structured logs format that will increase the semantinc content of the messages and ease the export of information for dashboards and Elastic Search.
- Migrated to setuptools package development library. This build system is the standard vanilla python build system
 provided with the python distribution. Build configurations have been updated and rpm packaging remains the
 primary distribution method.
- The billing_calculator is now hosted in HEPCloud's GitHub organization

Note: The RPM package was renamed from decisionengine-standard-library to decisionengine_modules. rpm/yum updates from the old RPM will work correctly.

Note: The "channel_name" key in the Source Proxy config dictionaries needs to be changed to "source_channel". "channel_name" is now being used to describe the name of the channel itself, not the name of the channel the Source Proxy is gettting information from.

1.9.1 Issues fixed in this release

- 354: Interior log messages from decision engine modules subroutines are missing;
- 348 : Name convention on bill_calculator_hep vs. billing_calculator_hep
- 333: DE modules entrypoint script always pick DE default branch, this becomes an issue when testing DE
 modules branches enhancement
- 325 : Follow up for 323 unit test inside correction map logic
- 323: Need to be able to add the conversion map to the factory_entries source onmachine_patch operations

1.9. Release 1.7.0

1.9.2 Full list of commits since version 1.6.0

4d2c9fe: Updated documentation for 1.7.0 release 7451799: Updated release notes for 1.7.0 RC4 (1.6.99.post8) 34d2d74: Added module logger for functions in glide_frontend_element.py outside the class 41e1060: fixes to tests ab0c739: Update release_notes_1.7.rst cc94791: Updated release notes for 1.7.0 RC3 (1.6.99.post7) 076371a: changes needed for structured logging 77a79ad: Use latest version of bill calc 385266c: Fix requiements to match our usage 56e2d9e: Add config for lgtm 31d9d77: Rename bill calculator hep imports 2cd29c4: Updated release notes for 1.7.0 RC2 (1.6.99.post6) f8c4c73: standardizing logging 160e3b8: Added a note to the release notes about the RPM name change 456003b: Release notes ready for v1.7.0 f8eef94: changes for structured logging 8a8c3dc: Set more firm version requirements for setup.py 3b44f36: Allow use of custom DEframework branch to test DE modules pick DEframework branch from DE modules branch d454093: Legacy boto isn't used internally any longer e87e1fb: Don't package tests at top level 76f3ae1: Fix GlideinWMS RPM requirement 5f9534f: Move packaging to develop 267995b: Implementing PEP8 issues 2a4d266: Adding new test for correction map 1c60be8: Update Jenkins file to cope with setuptools a674626: Migrate to setuptools 7efbe56: Preparing 1.7, ready for 1.6.99.post2 5c3f8b3: Add in Jenkinsfile pipeline configuration a timeout at stage level bd83afa: bill-calculator-hep now on official pypi 518ffdc: Fix coding error. 68d6441: Fix typos encountered during integration testing. 5435707: Check for configuration error. 4f7fc04: Accomodate breaking changes introduced by the framework. a27f92a: Added 1.6.2 release notes, from branch 1.6

c7351ca: Merge pull request #329 from jcpunk/billing_calc

82c7b33: Add billing-calculator into CI environment

6658c62: Merge pull request #327 from knoepfel/produces-consumes-configuration

5a1ab2b: Address Marco's comments.

0e2a005: Upgrade to new produces/consumes/supports_config interface

e8fd175: Python cleanups

5edf1f5: Remove unneeded files

4a30632: Merge pull request #324 from hyunwoo18/t323

1f80c4a: Correction map implemented too

9ce3b1c: Fix import (#321)

5449e00: fix typo

7c0752f: bump trrunk version

1.10 Release 1.6.2

Patch level (bug fix) release.

Correction map for GlideinWMS Factory Entries added. (#323, PR#324) Fixed imports and a typo.

1.10.1 Full list of commits since version 1.6.1

4f6e313: Correction map implemented too

bdf4324: releasing 1.6.2-0.1.rc1

53c7d6c: getting ready to release 1.6.2

9a9f99d: Fix import (#321)

d502bf1: fix typo

1.11 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.

1.10. Release 1.6.2

1.11.1 Issues fixed in this release

275: (b639a74)

1.11.2 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
```

1.12 Release 1.5.0

In this release:

- · New AWS bill calculator
- · Bug fixes

1.12.1 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)

1.12.2 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
```

1.13 Release 1.4.2

In this release:

• Bug fixes to 1.4.1 release

1.13. Release 1.4.2

1.13.1 Issues fixed in this release

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

1.13.2 Full list of commits since version 1.4.1

c16f0ac: Another fix to malformed strings (#288)

1.14 Release 1.4.1

In this release:

• Bug fixes to 1.4.0 release

1.14.1 Issues fixed in this release

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

1.14.2 Full list of commits since version 1.4.0

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

1.15 Release 1.4.0

In this release:

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

1.15.1 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)

1.15.2 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 columns individually (#257)
11ce772: decisionengine_modules/NERSC: Can run NerscAllocationInfo.py without (#256)
4a70465 : doc: add release notes
```

1.16 Release 1.3.0

In this release:

- Introduced Jsonnet based configuration system
- Improved error handling

1.16.1 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)
```

1.16. Release 1.3.0

```
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)
```

1.17 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

1.17.1 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)
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)
```

1.17. Release 1.2.0

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

1.18 Release 1.1.0

In this release:

- Fixed. https://github.com/HEPCloud/decisionengine_modules/issues/62. "Update Nersc Allocation Info source for new NERSC API"
- significant code cleanup and pep8 compliance
- · unit test work
- · CI (GitHub actions and Travis) is introduced

1.18.1 Patches:

```
6455c93: 1.1 (#203)
375bec5: clone specific branch of decisionengine (#202)
36c66a8: set version to 1.1.0
40f31bb: Use sparse checkout for first checkout to get ./github/actions (#23)
b2933d7: Remove unpackaged files (#22)
fee64ea: remove python shebang, fix logging-too-many-args, fix unsubscriptable-object (#21)
fbf4eb6: Fixes pep8 warnings. (#20)
9f26659: Hyunwoo2to3 (#19)
6870b0b: travis-ci: install boto3, htcondor and execute test in one directory above decisionengine_modules (#18)
22ed8b9: Fixup condor-classad (#17)
c9edb09: Add unit test github action. Run as non-root uid. Install python packages in virtualenv. (#14)
b41257d: Setup pep8speaks (#16)
b3bbe28: Transitioned NERSC API to new IRIS API for accounting data. (#15)
267ec14 : Setup travis (#13)
4151a9a: unittest: Fix GCEResourceLimits so that it does not depend on configuration (#12)
5a44018: Update decisionengine_modules rpmbuild and pylint actions. (#9)
c562696: Update entrypoint.sh (#8)
6d953f2: rpm spec: remove unwated directory (#7)
474c39c : unittest: make htcondor_query test pass (#6)
f0ff5a9: unittest improvements (#5)
e928059: AWS: fix all but one unit tests
182b582: fix unit tests, light formatting
bb4a9e4: Cache venv directory instead.
d805129: Test pip cache
```

b64e85d: Add Github Actions

1.18. Release 1.1.0

CHAPTER	
TWO	

DEVELOPER DOCUMENTATION

The developer documentation is in the GitHub Wiki

CHAPTER

THREE

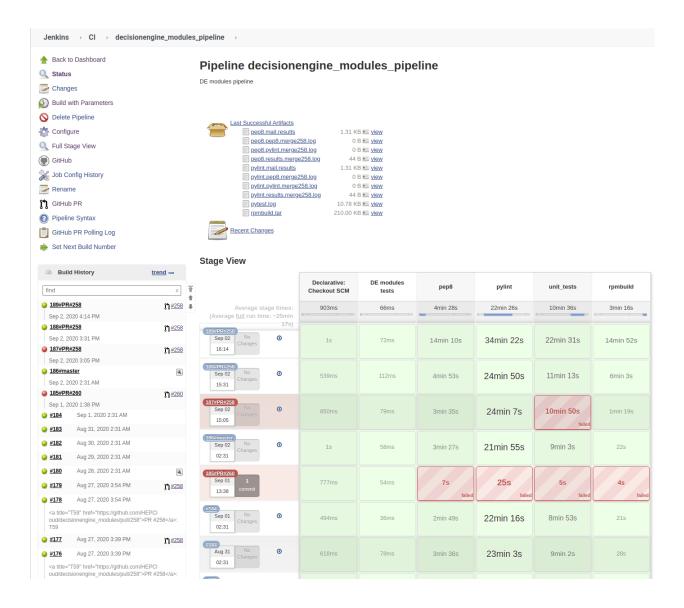
JENKINS CI PIPELINE

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 ¹ 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 $\frac{1258}{1258}$.

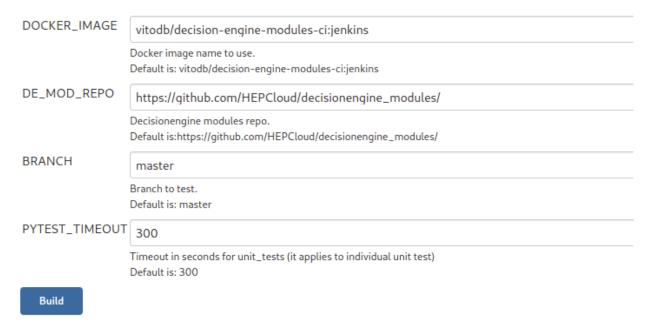
On occasion it could be useful to trigger a manual CI build to test a branch on the official DE GitHub repository or on

the user fork. For this purpose, on the top left panel the user can click on the and this panel shows up

Build with Parameters button,

Pipeline decisionengine_modules_pipeline

This build requires parameters:



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.

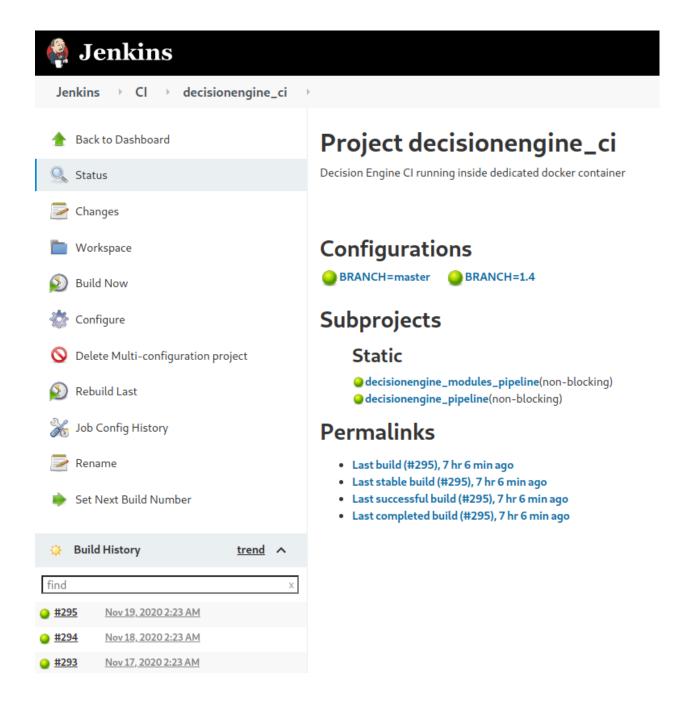
The PYTEST_TIMEOUT parameter is the timeout in seconds for unit_tests.

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.



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