

OSError: Version mismatch while installing h2o?

Asked 5 years, 2 months ago Active 1 year, 4 months ago Viewed 4k times



I am new with H2o. Based in the [documentation](#) I installed H2o for python

1

```
$ pip install h2o
```



Then:



In:

```
import h2o
h2o.init()
```

Out:

```
OSError                                Traceback (most recent call last)
<ipython-input-1-07f8bb8f27db> in <module>()
      1 import h2o
----> 2 h2o.init()

/usr/local/lib/python3.5/site-packages/h2o/h2o.py in init(ip, port, start_h2o,
enable_assertions, license, nthreads, max_mem_size, min_mem_size, ice_root,
strict_version_check, proxy, https, insecure, username, password, max_mem_size_GB,
min_mem_size_GB, proxies, size)
    849
nthreads=nthreads,max_mem_size=max_mem_size,min_mem_size=min_mem_size,ice_root=ice_root,

    850
strict_version_check=strict_version_check,proxy=proxy,https=https,insecure=insecure,usern:

--> 851
password=password,max_mem_size_GB=max_mem_size_GB,min_mem_size_GB=min_mem_size_GB,proxies:

    852     return None
    853

/usr/local/lib/python3.5/site-packages/h2o/connection.py in __init__(self, ip, port,
start_h2o, enable_assertions, license, nthreads, max_mem_size, min_mem_size, ice_root,
strict_version_check, proxy, https, insecure, username, password, max_mem_size_GB,
min_mem_size_GB, proxies, size)
    173     raise EnvironmentError("Version mismatch. H2O is version {0}, but the
h2o-python package is version {1}. "
    174                                "This is a developer build, please contact
your developer."
--> 175                                "".format(ver_h2o, str(ver_pkg)))
    176     else:
    177         raise EnvironmentError("Version mismatch. H2O is version {0}, but the
h2o-python package is version {1}. "

OSError: Version mismatch. H2O is version 3.8.2.99999, but the h2o-python package is
version 3.8.2.6-1. This is a developer build, please contact your developer.
```

From this [website](#), I tried to solve this issue as follows:

h2o.shutdown

Then:

```
user@MacBook-Pro-of-User:~$ pip3 uninstall h2o
Uninstalling h2o-3.8.2.6-1:
  /usr/local/h2o_data/iris.csv
  /usr/local/h2o_data/prostate.csv
  /usr/local/h2o_jar/h2o.jar
  /usr/local/lib/python3.5/site-packages/h2o-3.8.2.6_1.dist-info/DESCRIPTION.rst
  /usr/local/lib/python3.5/site-packages/h2o-3.8.2.6_1.dist-info/INSTALLER
  /usr/local/lib/python3.5/site-packages/h2o-3.8.2.6_1.dist-info/METADATA
  /usr/local/lib/python3.5/site-packages/h2o-3.8.2.6_1.dist-info/RECORD
  /usr/local/lib/python3.5/site-packages/h2o-3.8.2.6_1.dist-info/WHEEL
  /usr/local/lib/python3.5/site-packages/h2o-3.8.2.6_1.dist-info/metadata.json
  /usr/local/lib/python3.5/site-packages/h2o-3.8.2.6_1.dist-info/top_level.txt
  /usr/local/lib/python3.5/site-packages/h2o/__init__.py
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/__init__.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/assembly.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/astfun.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/connection.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/cross_validation.cpython-
35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/demo.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/display.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/expr.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/frame.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/group_by.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/h2o.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/h2o_logging.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/job.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/__pycache__/two_dim_table.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/assembly.py
  /usr/local/lib/python3.5/site-packages/h2o/astfun.py
  /usr/local/lib/python3.5/site-packages/h2o/connection.py
  /usr/local/lib/python3.5/site-packages/h2o/cross_validation.py
  /usr/local/lib/python3.5/site-packages/h2o/demo.py
  /usr/local/lib/python3.5/site-packages/h2o/display.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/__init__.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/__pycache__/__init__.cpython-
35.pyc
  /usr/local/lib/python3.5/site-
packages/h2o/estimators/__pycache__/deeplearning.cpython-35.pyc
  /usr/local/lib/python3.5/site-
packages/h2o/estimators/__pycache__/estimator_base.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/estimators/__pycache__/gbm.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/estimators/__pycache__/glm.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/estimators/__pycache__/glrm.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/estimators/__pycache__/kmeans.cpython-
35.pyc
  /usr/local/lib/python3.5/site-
packages/h2o/estimators/__pycache__/naive_bayes.cpython-35.pyc
  /usr/local/lib/python3.5/site-
packages/h2o/estimators/__pycache__/random_forest.cpython-35.pyc
  /usr/local/lib/python3.5/site-packages/h2o/estimators/deeplearning.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/estimator_base.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/gbm.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/glm.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/glrm.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/kmeans.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/naive_bayes.py
  /usr/local/lib/python3.5/site-packages/h2o/estimators/random_forest.py
  /usr/local/lib/python3.5/site-packages/h2o/expr.py
  /usr/local/lib/python3.5/site-packages/h2o/frame.py
  /usr/local/lib/python3.5/site-packages/h2o/grid/__init__.py
  /usr/local/lib/python3.5/site-packages/h2o/grid/__pycache__/__init__.cpython-35.pyc
```

```

/usr/local/lib/python3.5/site-packages/h2o/grid/__pycache__/grid_search.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/grid/__pycache__/metrics.cpython-35.pyc
/usr/local/lib/python3.5/site-packages/h2o/grid/grid_search.py
/usr/local/lib/python3.5/site-packages/h2o/grid/metrics.py
/usr/local/lib/python3.5/site-packages/h2o/group_by.py
/usr/local/lib/python3.5/site-packages/h2o/h2o.py
/usr/local/lib/python3.5/site-packages/h2o/h2o_logging.py
/usr/local/lib/python3.5/site-packages/h2o/job.py
/usr/local/lib/python3.5/site-packages/h2o/model/__init__.py
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/__init__.cpython-35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/autoencoder.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/binomial.cpython-35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/clustering.cpython-
35.pyc
/usr/local/lib/python3.5/site-
packages/h2o/model/__pycache__/confusion_matrix.cpython-35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/dim_reduction.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/metrics_base.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/model_base.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/model_builder.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/model_future.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/multinomial.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/__pycache__/regression.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/model/autoencoder.py
/usr/local/lib/python3.5/site-packages/h2o/model/binomial.py
/usr/local/lib/python3.5/site-packages/h2o/model/clustering.py
/usr/local/lib/python3.5/site-packages/h2o/model/confusion_matrix.py
/usr/local/lib/python3.5/site-packages/h2o/model/dim_reduction.py
/usr/local/lib/python3.5/site-packages/h2o/model/metrics_base.py
/usr/local/lib/python3.5/site-packages/h2o/model/model_base.py
/usr/local/lib/python3.5/site-packages/h2o/model/model_builder.py
/usr/local/lib/python3.5/site-packages/h2o/model/model_future.py
/usr/local/lib/python3.5/site-packages/h2o/model/multinomial.py
/usr/local/lib/python3.5/site-packages/h2o/model/regression.py
/usr/local/lib/python3.5/site-packages/h2o/transforms/__init__.py
/usr/local/lib/python3.5/site-packages/h2o/transforms/__pycache__/__init__.cpython-
35.pyc
/usr/local/lib/python3.5/site-
packages/h2o/transforms/__pycache__/decomposition.cpython-35.pyc
/usr/local/lib/python3.5/site-
packages/h2o/transforms/__pycache__/preprocessing.cpython-35.pyc
/usr/local/lib/python3.5/site-
packages/h2o/transforms/__pycache__/transform_base.cpython-35.pyc
/usr/local/lib/python3.5/site-packages/h2o/transforms/decomposition.py
/usr/local/lib/python3.5/site-packages/h2o/transforms/preprocessing.py
/usr/local/lib/python3.5/site-packages/h2o/transforms/transform_base.py
/usr/local/lib/python3.5/site-packages/h2o/two_dim_table.py
/usr/local/lib/python3.5/site-packages/h2o/utils/__init__.py
/usr/local/lib/python3.5/site-packages/h2o/utils/__pycache__/__init__.cpython-35.pyc
/usr/local/lib/python3.5/site-packages/h2o/utils/__pycache__/shared_utils.cpython-
35.pyc
/usr/local/lib/python3.5/site-packages/h2o/utils/shared_utils.py
Proceed (y/n)? y
Successfully uninstalled h2o-3.8.2.6-1
user@MacBook-Pro-of-User:~$

```

Then I tried to upgrade to the latest version:

```
user@MacBook-Pro-of-User:~$ pip3 install http://h2o-release.s3.amazonaws.com/h2o/rel-turchin/6/Python/h2o-3.8.2.6-py2.py3-none-any.whl
```

However, I got the same error message:

```
OSError: Version mismatch. H2O is version 3.8.2.99999, but the h2o-python package is version 3.8.2.6. This is a developer build, please contact your developer.
```

How to correctly install h2o for python?.

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asked Jun 12 '16 at 21:05



[tumbleweed](#)

3,908 11 36 75

5 Answers

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First try again with the latest version of H2O:

4



```
pip3 uninstall h2o
pip3 install http://h2o-release.s3.amazonaws.com/h2o/rel-turchin/9/Python/h2o-3.8.2.9-py2.py3-none-any.whl
```



If you run into the same issue, then do the following:



It looks like you already have a development version of H2O running on your machine (3.8.2.99999). You will need to kill that H2O cluster that is running the dev version. You can do that one of the following ways:

- Navigate to the H2O Flow web GUI (if you are running locally, that would be at localhost:54321 by default). In the GUI, click on the Admin menu item and then click on "Shut Down."
- Kill the Java process that is running the H2O cluster.

Once you have killed the existing H2O cluster, then reinstall the h2o module, and start the H2O cluster directly from Python as follows:

```
import h2o
h2o.init()
```

Since at this point, there won't be an existing H2O cluster running, the h2o Python module will start one up for you (and since you started it from Python, it won't get confused about versions).

Sometimes what happens is that people download the H2O jar file separately, start an H2O cluster and then install a different version of the R or Python package, which causes the mismatch error. I think this may be the cause of your issue. Usually starting an H2O cluster is as simple as `import h2o; h2o.init()`.

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answered Jun 13 '16 at 3:47



Erin LeDell

8,124 1 14 34

1 ▲ Thanks for the help, apparently the problem was that I forgot to close the terminal... – [tumbleweed](#)
Jun 14 '16 at 5:44

▲ That save my life! – [xxx222](#) Jun 16 '16 at 14:49

1 ▲ Stopping the service of h2o was the key. Thanks. – [WesternGun](#) Jun 6 '18 at 13:08

▲ Try using a non-default port number. For example: `h2o.init(port=8888)`

3 ▼ This error can be caused by connecting to an already running H2O server that is the wrong version. When you run `h2o.init()` it first checks for an existing server running on the default port, 54321. If another user on your system is running a different H2O version on that port, it will connect and throw the version clash.



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answered Mar 22 '20 at 6:42



andrew

3,524 1 20 35

▲ By default, H2O is very unforgiving about version mismatches.

0 ▼ to work around the problem, you can try this (not guaranteed to work!):



```
h2o.init(
    strict_version_check=False
)
```

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answered Feb 20 '20 at 20:10



Clem Wang

565 5 13

▲ If you have the h2o window opened @ <http://localhost:54321>, make sure you shut it down (Admin->shutDown) before you import into python or python3 since they create conflicts.

1



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answered Jan 4 '18 at 22:39



Sincole Brans

136 10





In order to use H2O, need to update the h2o jar file to python version.

0



Delete H2O versions on disk and do a fresh install.. Then `pip install h2o`.



Or follow these instructions:

<http://www.h2o.ai/download/h2o/python>

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edited Jun 13 '16 at 0:07

answered Jun 13 '16 at 0:01



Merlin

20.3k

34

109

192

1



As an follow-up -- if you are only planning on starting H2O from Python (or R), then it's easier to just use the Python (or R) module, rather than dealing with the stand-alone H2O jar. – [Erin LeDell](#)
Jun 13 '16 at 3:49