virtualenv error bad interpreter: No such file or directory

Asked 5 years, 8 months ago Modified 11 months ago Viewed 64k times



If I attempt to create a virtual env I get this error message, which I do not understand: **bad interpreter: No such file or directory**. I have reviewed <u>this stack overflow answer</u> and have tried to apply it in the diagnostic steps below.

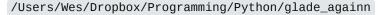


41

This is my first day running on Mojave but I don't know if that is a factor in this issue or not.



I have created a new empty folder for the project at





My plan has been to run the project in the virtualenv /users/wes/.virtualenvs/glade_againn

However, when I attempt to use virtualenv I get this error message.

```
$ virtualenv --version
-bash: /usr/local/bin/virtualenv: /usr/local/opt/python/bin/python2.7: bad
interpreter: No such file or directory
```

If I attempt to install virtualenv with PIP I am told it already exists.

```
$ pip install virtualenv
Requirement already satisfied: virtualenv in /usr/local/lib/python2.7/site-
packages (15.2.0)
$
```

My current PATH is

```
echo $PATH
/Library/Frameworks/Python.framework/Versions/3.6/bin:/opt/local/bin:/opt/local/sb
```

If you search for pyth* across all those directories you get this list, in this order.

```
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3-config
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6-config
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6m
/Library/Frameworks/Python.framework/Versions/3.6/bin/python3.6m-config
/opt/local/bin/python2.7
/opt/local/bin/python3.4
/opt/local/bin/python3.4-config
/opt/local/bin/python3.4m
/opt/local/bin/python3.4m-config
/opt/local/bin/pythonw2.7
```

```
/usr/local/bin/python-32
/usr/local/bin/python2-32
/usr/local/bin/python2.7-32
/usr/local/bin/python3
/usr/local/bin/python3-config
/usr/local/bin/python3.6
/usr/local/bin/python3.6-config
/usr/local/bin/python3.6m
/usr/local/bin/python3.6m-config
/usr/local/bin/pythoni
/usr/local/bin/pythoni1
/usr/local/bin/pythonw-32
/usr/local/bin/pythonw2-32
/usr/local/bin/pythonw2.7-32
/usr/bin/python
/usr/bin/python-config
/usr/bin/python2.7
/usr/bin/python2.7-config
/usr/bin/pythonw
/usr/bin/pythonw2.7
/sw/bin/python2.7
/sw/bin/python2.7-config
/usr/local/bin/python-32
/usr/local/bin/python2-32
/usr/local/bin/python2.7-32
/usr/local/bin/python3
/usr/local/bin/python3-config
/usr/local/bin/python3.6
/usr/local/bin/python3.6-config
/usr/local/bin/python3.6m
/usr/local/bin/python3.6m-config
/usr/local/bin/pythoni
/usr/local/bin/pythoni1
/usr/local/bin/pythonw-32
/usr/local/bin/pythonw2-32
/usr/local/bin/pythonw2.7-32
```

Does anyone have a suggestion on how to get virtualenv to work again?

```
python virtualenv

Share Follow edited Dec 20, 2018 at 6:33

asked Dec 20, 2018 at 6:28

WesR

1,462 • 1 • 22 • 36
```

7 Answers Sorted by: Highest score (default) \$



Try to reinstall using this

pip install -U --force-reinstall virtualenv



if above solution doesn't work for you you should create a new virtualenv again because of mojave update



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Yeah this might fix it. - waqasgard Dec 20, 2018 at 7:14

- In my case, the error came from nowhere and got solved after this reinstall. Not sure what happened here.

 Pramesh Bajracharya Jan 6, 2020 at 10:19
- 2 lalso had to pip install -U --force-reinstall virtualenvwrapper Chad Befus Jan 23, 2021 at 15:13
- 1 I had to run with pip3 chughts Jun 15, 2022 at 14:02



In my case I was renaming project and project's folder where venv has been located.

So in my case I was changing paths to python interpreter in the following files:



~/PycharmProjects/myproject/venv/bin/activate*



And modified ~/PycharmProjects/myproject/venv/bin/pip* files to:



```
#!/home/myuser/PycharmProjects/myproject/venv/bin/python
# -*- coding: utf-8 -*-
import re
import sys
from pip._internal.cli.main import main
if __name__ == '__main__':
    sys.argv[0] = re.sub(r'(-script\.pyw|\.exe)?$', '', sys.argv[0])
    sys.exit(main())
```

To modify it I was required to login with root permissions: sudo su. The sudo vim.tiny venv/bin/pip just not allowed me to edit the files.

I've changed only the first line starting with #!/home...

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edited Feb 12, 2021 at 12:56

answered Feb 12, 2021 at 12:51





In my case, I was on **MacOS** and I had python3.9 installed, but virtualenv was installed using python3.7 and at some point I uninstalled python3.7.





\$ /usr/local/bin/virtualenv --version
-bash: /usr/local/bin/virtualenv: /usr/local/opt/python/bin/python3.7: bad
interpreter: No such file or directory



However, my python version:



```
$ which python3.9
/usr/local/bin/python3.9
```

No amount of pip or pip3 install/uninstall/install virtualenv worked for me. Finally I did the following:

```
$ python3.9 -m pip install --user virtualenv
Collecting virtualenv
  Using cached virtualenv-20.4.6-py2.py3-none-any.whl (7.2 MB)
<snip>
Successfully installed appdirs-1.4.4 distlib-0.3.1 filelock-3.0.12 virtualenv-
20.4.6
```

And then

```
$ /usr/local/bin/virtualenv --version
virtualenv 20.4.6 from <mypath>
```

Yay!!

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yes - thank you - but also to switch the default python path from 3.7 -> 3.9. You put me on the right track though. (all after High Sierra -> Big Sur upgrade) Thanks! - jtlz2 Aug 12, 2021 at 8:30 \nearrow



That solved the problem in my case: (my env file is called .venv)





mv .venv .venv_old

python3.7 -m venv .venv

source .venv/bin/activate

pip install wheel

pip install --upgrade pip wheel setuptools

pip install -r requirements.txt



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answered Mar 27, 2021 at 21:42





For those having similar issues with built-in venv and arriving to the post:



 the problem could appear when creating a project and .venv folder, and later moving the project to another folder.

• otherwise, go to .venv/bin/activate file to change the \$VIRTUAL ENV to the new path and

- the simplest solution is to delete and create a new venv.
- do the same in the .venv/bin/pip first line (the shebang) and the same with pip3 and pip3.X files in the same folder.



answered Oct 2, 2023 at 10:53



441 • 4 • 10



In my case, the error shows in Github action and the root cause is the broken python symbolic link. As a workaround, I just simply re-create it during the process.



Error:

home/runner/work/_temp/810926a2-36c5-4488-ac84-6f3f57713147.sh: /home/runner/work/dataops/dataops/.venv/bin/pytest: /home/runner/work/dataops/dataops/.venv/bin/python: bad interpreter: No such file or directory

Root Cause:

/home/runner/work/dataops/dataops/.venv/bin/python: broken symbolic link to /opt/hostedtoolcache/Python/3.9.15/x64/bin/python3.9

Solution:

Add below scripts into wherever has broken link: PYTHON_PATH=\$(which python3) source .venv/bin/activate PYTHON_BROKEN_PATH=\$(dirname \$(which pip)) rm \$PYTHON_BROKEN_PATH/python ln -s \$PYTHON_PATH \$PYTHON_BROKEN_PATH/python export PATH=\$PATH:\$(dirname \$PYTHON_BROKEN_PATH)

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answered Dec 16, 2022 at 20:16





Similar problem after switching package managers on a Mac. No reinstallation required for my use case, just updates to 2 files.

0 1st update config file



I updated pyvenv.cfg in the virtual environment directory (cd/to/your/venv/dir)



I had to update the home and the version settings.



```
home = /usr/local/bin
include-system-site-packages = false
version = 3.10.8
```

2nd fix symlinks

Lastly I updated the symlink to the python executable. It's in the virtual environment's bin directory.

```
cd /to/your/venv/dir/bin
ln -s /usr/local/bin/python3.10 python
```

Note, in my case there were 2 other symlinks to python executables in the venv/bin directory, python3 and python3.10. I didn't need to touch these as they were both pointers to the python symlink that was just updated.

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answered Jan 19, 2023 at 18:40

