

# [DEMO] Pacu [Option #1] Install with pip [Recommended]

 Christophe • August 27, 2023

Pip is a great tool, but it can frankly also sometimes be giant pain. There are just too many versions of it, of Python, and of dependencies, which means that executing simple commands can oftentimes fail.

By using a virtual environment, we can hopefully get around issues like this. However, if this approach doesn't work, you have two options:

1. Ask for help below or in Discord and we'll see if we can fix it
2. Try one of the other installation options (go to the next lesson)

## PyPi Installation (Recommended)

The first step if you haven't updated pip in a while is to make sure it's up-to-date. Again, this is an area I sometimes run into issues and I wanted to show you that so I haven't fixed it:

```
pip3 install -U pip
```

For example, I got this error when I first ran that:

```
ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.
chalice 1.27.2 requires pip<22.3,>=9, but you have pip 23.2.1 which is incompatible.
```

You have a couple of options to get passed this:

1. Unless your pip version is super old, you should still be able to install Pacu so you can always try to move on to the next step without upgrading, which is to create a Python virtual environment (option #1 below)
2. You can downgrade your pip version to version 22.3 (option #2), but I don't recommend that as it will probably cause other issues

## Option #1 Create a Python Virtual Environment

For me, I'd recommend going with option #1 which is to ignore that upgrade step and proceed:

```
mkdir pacu && cd pacu
```

```
python3 -m venv venv && source venv/bin/activate
```

Finally, install Pacu from PyPi:

```
pip install -U pacu
```

When running ZSH (which I am on MacOS) you may need to run `rehash` before the pacu command is made available.

After that, you can type in the command `pacu` and it should launch successfully! You can either check out the other installation options or move on if this is already working.

## Option #2 Downgrade pip (not recommended)

Otherwise, as option #2, you can downgrade pip to whatever version your error message is saying. For me it was 22.3 so:

```
pip3 install "pip<22.3"
```

I'm not going to press enter because I don't actually want to do this, but it is an option if you want to try it.

## Conclusion

So there we go, this is the first option to installing Pacu. If this worked and if you like this approach, then you can skip forward to installing CloudGoat. But if this isn't working for your system or if you want to try a different approach, feel free to go through the other Pacu installation lessons.

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## Responses



Christopher

October 16, 2023

Stock Ubuntu 23.04 (Not a VM):

```
"sudo apt-get install python3-pip python3-full"
```

And Option #1:

```
"mkdir pacu && cd pacu"
```

```
"python3 -m venv venv && source venv/bin/activate"
```

```
"pip install -U pacu"
```

Reply



Christophe

October 16, 2023

Thx for sharing this!

Reply