

# Michael Kohronas

## 10/2/23

### Activity 1.6 – Package Managers

#### Homebrew Version:

```
Terminal Shell Edit View Window Help
michaelkohronas - ssh - 254x79

Checking for 'sudo' access (which may request your password)...
Password:
This script will install:
/usr/local/bin/brew
/usr/local/share/doc/homebrew
/usr/local/share/man/man1/brew.1
/usr/local/share/man/man3/brew.3
/usr/local/etc/bash_completion.d/brew
/usr/local/Homebrew

Press RETURN/ENTER to continue or any other key to abort:
/usr/bin/sudo /usr/bin/chown -R michaelkohronas:admin /usr/local/Homebrew
Downloading and installing Homebrew...
remote: Counting objects: 1898 (1875/2875), done.
remote: Compressing objects: 100% (361/361), done.
remote: Total 5215 (delta 2548), reused 2788 (delta 2562), pack-reused 2346
Receiving objects: 100% (5215/5215), 2.82 MiB | 0.29 MiB/s, done.
Resolving deltas: 100% (3884/3884), completed with 388 local objects.
From https://github.com/Homebrew/homebrew
* (new branch) dependabot/bundler/Library/Homebrew/unicode-display_width-2.5.8 -> origin/dependabot/bundler/Library/Homebrew/unicode-display_width-2.5.8
* (new tag) 4.0.26 -> 4.0.26
* (new tag) 4.0.26 -> 4.0.26
* (new tag) 4.0.27 -> 4.0.27
* (new tag) 4.0.28 -> 4.0.28
* (new tag) 4.1.0 -> 4.1.0
* (new tag) 4.1.1 -> 4.1.1
* (new tag) 4.1.10 -> 4.1.10
* (new tag) 4.1.11 -> 4.1.11
* (new tag) 4.1.12 -> 4.1.12
* (new tag) 4.1.13 -> 4.1.13
* (new tag) 4.1.14 -> 4.1.14
* (new tag) 4.1.3 -> 4.1.3
* (new tag) 4.1.3 -> 4.1.3
* (new tag) 4.1.4 -> 4.1.4
* (new tag) 4.1.5 -> 4.1.5
* (new tag) 4.1.6 -> 4.1.6
* (new tag) 4.1.7 -> 4.1.7
* (new tag) 4.1.8 -> 4.1.8
remote: Enumerating objects: 58, done.
remote: Counting objects: 1898 (11/11), done.
remote: Total 58 (delta 11), reused 11 (delta 11), pack-reused 7
Unpacking objects: 100% (58/58), 5.39 KiB | 175.08 KiB/s, done.
From https://github.com/Homebrew/homebrew
* (new tag) 4.0.29 -> 4.0.29
* (new tag) 4.1.9 -> 4.1.9
HEAD is now at b85afea Merge pull request #16871 from Homebrew/pkg_tweaks
Updated 2 apps (Homebrew/core and Homebrew/cask).
Installation successful!

Homebrew has enabled anonymous aggregate formulae and cask analytics.
Read the analytics documentation (and how to opt-out) here:
https://docs.brew.sh/Analytics
No analytics data have been sent yet (your will any be during this install run).
Homebrew is run entirely by unpaid volunteers. Please consider donating:
https://github.com/Homebrew/brew#donations

Next steps:
Run these two commands in your terminal to add Homebrew to your PATH:
(only echo 'eval $(/usr/local/bin/brew shellenv)' if > /Users/michaelkohronas/.zprofile
eval "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/brew/master/bin/brew)"
Run brew help to get started
Further documentation:
https://docs.brew.sh
[EOS]
michaelkohronas@michael-mbp-7 ~ % brew doctor
Your system is ready to brew.
michaelkohronas@michael-mbp-7 ~ % brew --version
Homebrew 4.1.9
michaelkohronas@michael-mbp-7 ~ %
```

#### HTOP Install

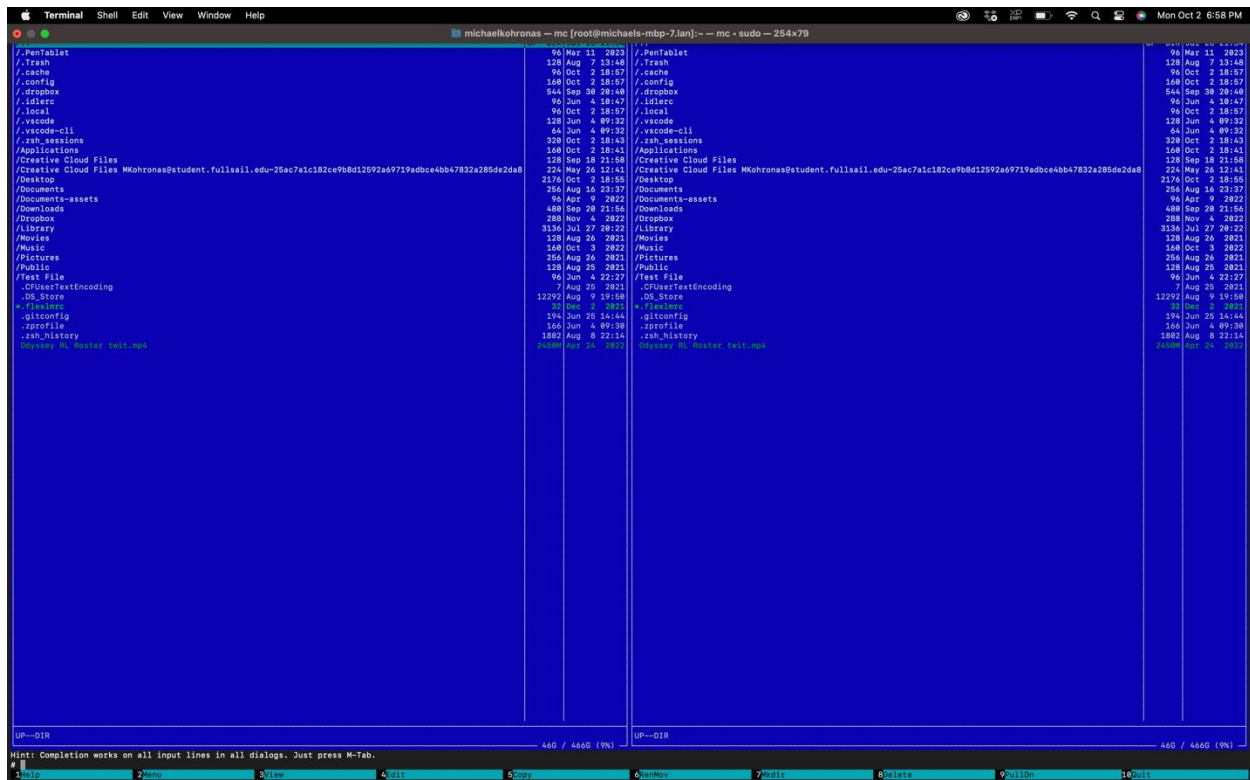
```
Terminal Shell Edit View Window Help
michaelkohronas - http - sudo - 254x79

Task: 576, 2095 thr, 0 kthr: 2 running
238M/1.0G | Load Average: 3.10 4.97 0.22
Uptime: 1 day, 22:16:46

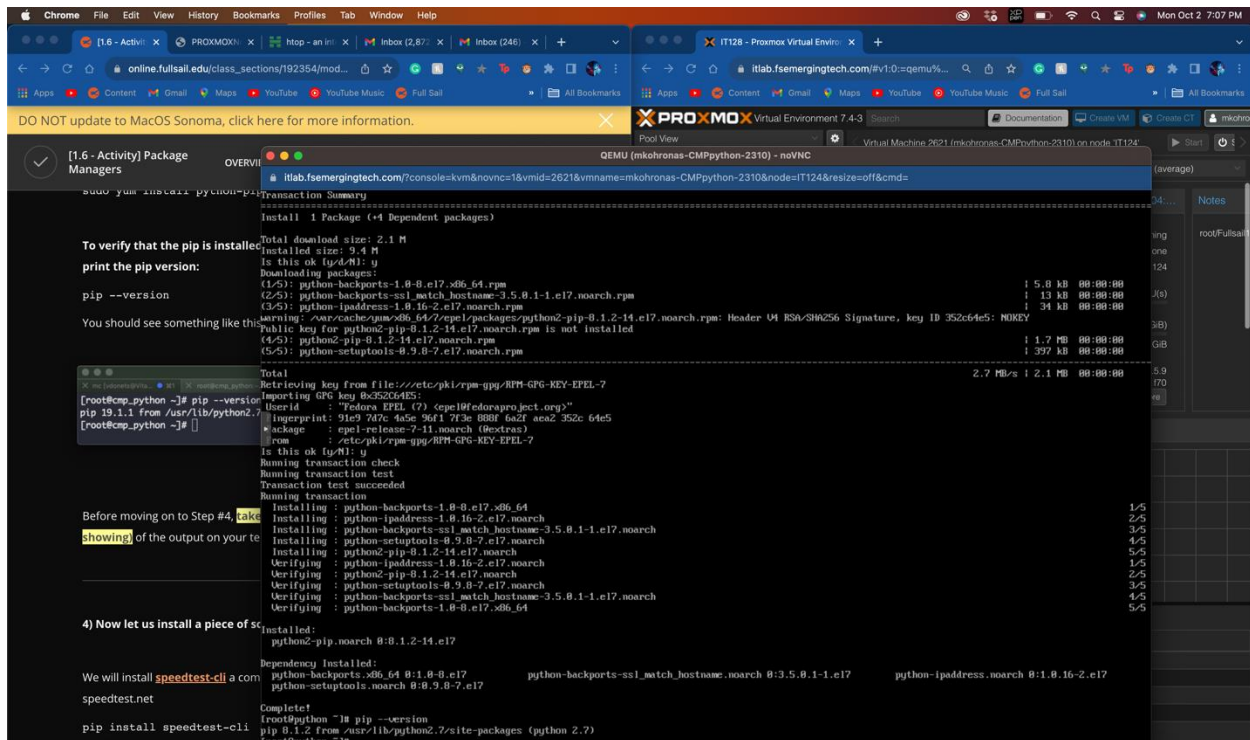
htop

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1199 michael 24      0.0.0.0  1199.0  1199.0  /usr/libexec/launchd
1200 michael 24      0.0.0.0  1200.0  1200.0  /usr/libexec/launchd
1201 michael 24      0.0.0.0  1201.0  1201.0  /usr/libexec/launchd
1202 michael 24      0.0.0.0  1202.0  1202.0  /usr/libexec/launchd
1203 michael 24      0.0.0.0  1203.0  1203.0  /usr/libexec/launchd
1204 michael 24      0.0.0.0  1204.0  1204.0  /usr/libexec/launchd
1205 michael 24      0.0.0.0  1205.0  1205.0  /usr/libexec/launchd
1206 michael 24      0.0.0.0  1206.0  1206.0  /usr/libexec/launchd
1207 michael 24      0.0.0.0  1207.0  1207.0  /usr/libexec/launchd
1208 michael 24      0.0.0.0  1208.0  1208.0  /usr/libexec/launchd
1209 michael 24      0.0.0.0  1209.0  1209.0  /usr/libexec/launchd
1210 michael 24      0.0.0.0  1210.0  1210.0  /usr/libexec/launchd
1211 michael 24      0.0.0.0  1211.0  1211.0  /usr/libexec/launchd
1212 michael 24      0.0.0.0  1212.0  1212.0  /usr/libexec/launchd
1213 michael 24      0.0.0.0  1213.0  1213.0  /usr/libexec/launchd
1214 michael 24      0.0.0.0  1214.0  1214.0  /usr/libexec/launchd
1215 michael 24      0.0.0.0  1215.0  1215.0  /usr/libexec/launchd
1216 michael 24      0.0.0.0  1216.0  1216.0  /usr/libexec/launchd
1217 michael 24      0.0.0.0  1217.0  1217.0  /usr/libexec/launchd
1218 michael 24      0.0.0.0  1218.0  1218.0  /usr/libexec/launchd
1219 michael 24      0.0.0.0  1219.0  1219.0  /usr/libexec/launchd
1220 michael 24      0.0.0.0  1220.0  1220.0  /usr/libexec/launchd
1221 michael 24      0.0.0.0  1221.0  1221.0  /usr/libexec/launchd
1222 michael 24      0.0.0.0  1222.0  1222.0  /usr/libexec/launchd
1223 michael 24      0.0.0.0  1223.0  1223.0  /usr/libexec/launchd
1224 michael 24      0.0.0.0  1224.0  1224.0  /usr/libexec/launchd
1225 michael 24      0.0.0.0  1225.0  1225.0  /usr/libexec/launchd
1226 michael 24      0.0.0.0  1226.0  1226.0  /usr/libexec/launchd
1227 michael 24      0.0.0.0  1227.0  1227.0  /usr/libexec/launchd
1228 michael 24      0.0.0.0  1228.0  1228.0  /usr/libexec/launchd
1229 michael 24      0.0.0.0  1229.0  1229.0  /usr/libexec/launchd
1230 michael 24      0.0.0.0  1230.0  1230.0  /usr/libexec/launchd
1231 michael 24      0.0.0.0  1231.0  1231.0  /usr/libexec/launchd
1232 michael 24      0.0.0.0  1232.0  1232.0  /usr/libexec/launchd
1233 michael 24      0.0.0.0  1233.0  1233.0  /usr/libexec/launchd
1234 michael 24      0.0.0.0  1234.0  1234.0  /usr/libexec/launchd
1235 michael 24      0.0.0.0  1235.0  1235.0  /usr/libexec/launchd
1236 michael 24      0.0.0.0  1236.0  1236.0  /usr/libexec/launchd
1237 michael 24      0.0.0.0  1237.0  1237.0  /usr/libexec/launchd
1238 michael 24      0.0.0.0  1238.0  1238.0  /usr/libexec/launchd
1239 michael 24      0.0.0.0  1239.0  1239.0  /usr/libexec/launchd
1240 michael 24      0.0.0.0  1240.0  1240.0  /usr/libexec/launchd
1241 michael 24      0.0.0.0  1241.0  1241.0  /usr/libexec/launchd
1242 michael 24      0.0.0.0  1242.0  1242.0  /usr/libexec/launchd
1243 michael 24      0.0.0.0  1243.0  1243.0  /usr/libexec/launchd
1244 michael 24      0.0.0.0  1244.0  1244.0  /usr/libexec/launchd
1245 michael 24      0.0.0.0  1245.0  1245.0  /usr/libexec/launchd
1246 michael 24      0.0.0.0  1246.0  1246.0  /usr/libexec/launchd
1247 michael 24      0.0.0.0  1247.0  1247.0  /usr/libexec/launchd
1248 michael 24      0.0.0.0  1248.0  1248.0  /usr/libexec/launchd
1249 michael 24      0.0.0.0  1249.0  1249.0  /usr/libexec/launchd
1250 michael 24      0.0.0.0  1250.0  1250.0  /usr/libexec/launchd
1251 michael 24      0.0.0.0  1251.0  1251.0  /usr/libexec/launchd
1252 michael 24      0.0.0.0  1252.0  1252.0  /usr/libexec/launchd
1253 michael 24      0.0.0.0  1253.0  1253.0  /usr/libexec/launchd
1254 michael 24      0.0.0.0  1254.0  1254.0  /usr/libexec/launchd
1255 michael 24      0.0.0.0  1255.0  1255.0  /usr/libexec/launchd
1256 michael 24      0.0.0.0  1256.0  1256.0  /usr/libexec/launchd
1257 michael 24      0.0.0.0  1257.0  1257.0  /usr/libexec/launchd
1258 michael 24      0.0.0
```

## Midnight Commander Install



## Pip Version



## Speedtest CLI

The screenshot shows a terminal window titled "QEMU (mkohronas-CMPpython-2310) - noVNC". The terminal output shows the installation of various Python packages using pip, including python-setuptools, python2-pip, python-ipaddress, python2-pip, python-setuptools, python-backports-ssl-match-hostname, and python-backports-1.0.8. The installation of speedtest-cli is successful. The terminal then shows the execution of speedtest-cli, which retrieves the speedtest.net configuration and tests the download and upload speeds. The results show a download speed of 8.88 Mbit/s and an upload speed of 0.88 Mbit/s. The terminal also shows the execution of speedtest-cli --help, which displays the usage and options for the tool.

```
Installing : python-setuptools-0.9.8-7.el7.noarch
Installing : python2-pip-0.1.2-14.el7.noarch
Verifying : python-ipaddress-1.0.16-2.el7.noarch
Verifying : python2-pip-0.1.2-14.el7.noarch
Verifying : python-setuptools-0.9.8-7.el7.noarch
Verifying : python-backports-ssl-match-hostname-3.5.0.1-1.el7.noarch
Verifying : python-backports-1.0.8-7.el7.noarch
Installing : python2-pip.noarch 0:8.1.2-14.el7
Dependency Installed:
python-backports-ssl-match-hostname.noarch 0:3.5.0.1-1.el7 python-ipaddress.noarch 0:1.0.16-2.el7
python-setuptools.noarch 0:8.0.9-7.el7
Complete!
[root@python ~]# pip --version
pip 8.1.2 from /usr/lib/python2.7/site-packages (python 2.7)
[root@python ~]# pip install speedtest-cli
Collecting speedtest-cli
  Downloading https://files.pythonhosted.org/packages/9f/39/65259b7854368378d3183762494fa2c773ddc41633894d895f9d128f45/speedtest_cli-2.1.3-py2.py3-none-any.whl
Installing collected packages: speedtest-cli
Successfully installed speedtest-cli-2.1.3
You are using pip version 8.1.2, however version 23.2.1 is available.
You should consider upgrading via the 'pip install --upgrade pip' command.
[root@python ~]# speedtest-cli
Retrieving speedtest.net configuration...
Testing from Fibernet Direct (178.55.131.242)...
Retrieving speedtest.net server list...
Selecting best server based on ping...
Hosted by Comcast (Miami, FL) [97.58 km]: 1000000.0 ms
Testing download speed.....
Download: 8.88 Mbit/s
Testing upload speed.....
Upload: 0.88 Mbit/s
[root@python ~]#
[root@python ~]# speedtest-cli
Retrieving speedtest.net configuration...
Testing from Fibernet Direct (178.55.131.242)...
Retrieving speedtest.net server list...
Selecting best server based on ping...
Hosted by Comcast (Miami, FL) [97.58 km]: 1000000.0 ms
Testing download speed.....
Download: 8.88 Mbit/s
Testing upload speed.....
Upload: 0.88 Mbit/s
[root@python ~]
```

## Snapshot

The screenshot shows the Proxmox VE interface. The left sidebar displays a list of virtual machines, including 2310-CT12701-mkohronas, 2620 (mkohronas-Firewall-2310), 2621 (mkohronas-CMPpython-2310), 2622 (mkohronas-CMPAnsible-2310), 2623 (mkohronas-CMPwww1CentOS7), 2624 (mkohronas-CMPwww4U1804-23), and 2625 (mkohronas-CMPserver2019-23). The main panel shows the details of the selected virtual machine, 2621 (mkohronas-CMPpython-2310). The console output shows the initial state of the virtual machine, including the RAM size (16 GB) and the date/status (2023-09-25 23:57:48). The console also shows the execution of the speedtest-cli command, which displays the download and upload speeds. The console output is as follows:

```
initialstate
A1U6_Save
NOW
Testing download speed.....
Download: 8.88 Mbit/s
Testing upload speed.....
Upload: 0.88 Mbit/s
```

Start Time	End Time	Node	User name	Description	Status
Oct 02 19:18:02		IT123	mkohronas@LabAc...	VMCT 2620 - Console	
Oct 02 19:03:01		IT124	mkohronas@LabAc...	VMCT 2621 - Console	
Oct 02 19:20:52	Oct 02 19:20:57	IT124	mkohronas@LabAc...	VM 2621 - Snapshot	OK
Oct 02 19:13:00	Oct 02 19:18:02	IT123	mkohronas@LabAc...	VMCT 2620 - Console	OK
Oct 02 19:07:57	Oct 02 19:13:00	IT123	mkohronas@LabAc...	VMCT 2620 - Console	OK