

Custom System Monitor

Operating systems

Group : 1

supervised by Dr.Hind Alsharif

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-udo apt update:

this command updates the software repository and it doesn't install anything just checks for updates.

```
Activities Terminal 22:28 14 أكتوبر
jood@jood: ~/Desktop

jood@jood:~/Desktop$ sudo apt update
[sudo] password for jood:
E: Invalid operation update
jood@jood:~/Desktop$ sudo apt update
Hit:1 http://sa.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://sa.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Hit:4 http://sa.archive.ubuntu.com/ubuntu jammy-backports InRelease
Fetched 257 kB in 1s (226 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
78 packages can be upgraded. Run 'apt list --upgradable' to see them.
jood@jood:~/Desktop$ apt list --upgradable
Listing... Done
alsa-ucm-conf/jammy-updates,jammy-updates 1.2.6.3-1ubuntu1.11 all [upgradable from: 1.2.6.3-1ubuntu1.10]
appport-gtk/jammy-updates,jammy-updates 2.20.11-0ubuntu82.6 all [upgradable from: 2.20.11-0ubuntu82.5]
appport/jammy-updates,jammy-updates 2.20.11-0ubuntu82.6 all [upgradable from: 2.20.11-0ubuntu82.5]
apt-utils/jammy-updates 2.4.13 amd64 [upgradable from: 2.4.11]
apt/jammy-updates 2.4.13 amd64 [upgradable from: 2.4.11]
base-files/jammy-updates 12ubuntu4.7 amd64 [upgradable from: 12ubuntu4.6]
coreutils/jammy-updates 8.32-4.1ubuntu1.2 amd64 [upgradable from: 8.32-4.1ubuntu1.1]
dpkg/jammy-updates 1.21.1ubuntu2.3 amd64 [upgradable from: 1.21.1ubuntu2.2]
e2fsprogs/jammy-updates 1.46.5-2ubuntu1.2 amd64 [upgradable from: 1.46.5-2ubuntu1.1]
ethtool/jammy-updates 1:5.16-1ubuntu0.1 amd64 [upgradable from: 1:5.16-1]
firmware-sof-signed/jammy-updates,jammy-updates 2.0-1ubuntu4.7 all [upgradable from: 2.0-1ubuntu4.4]
glr1.2-mutter-10/jammy-updates 42.9-0ubuntu9 amd64 [upgradable from: 42.9-0ubuntu7.1]
gjs/jammy-updates 1.72.4-0ubuntu0.22.04.3-really.is.1.72.2-0ubuntu2 amd64 [upgradable from: 1.72.2-0ubuntu2]
gnome-remote-desktop/jammy-updates 42.9-0ubuntu0.22.04.2 amd64 [upgradable from: 42.9-0ubuntu0.22.04.1]
language-pack-en-base/jammy-updates,jammy-updates 1:22.04+20240902 all [upgradable from: 1:22.04+20240212]
language-pack-en/jammy-updates,jammy-updates 1:22.04+20240902 all [upgradable from: 1:22.04+20240212]
language-pack-gnome-en-base/jammy-updates,jammy-updates 1:22.04+20240902 all [upgradable from: 1:22.04+20240212]
language-pack-gnome-en/jammy-updates,jammy-updates 1:22.04+20240902 all [upgradable from: 1:22.04+20240212]
libapt-pkg6.0/jammy-updates 2.4.13 amd64 [upgradable from: 2.4.11]
libcon-err2/jammy-updates 1.46.5-2ubuntu1.2 amd64 [upgradable from: 1.46.5-2ubuntu1.1]
libext2fs2/jammy-updates 1.46.5-2ubuntu1.2 amd64 [upgradable from: 1.46.5-2ubuntu1.1]
libfprint-2-2/jammy-updates 1:1.94.3+tod1-0ubuntu2-22.04.08 amd64 [upgradable from: 1:1.94.3+tod1-0ubuntu2-22.04.06]
libgjs0g/jammy-updates 1.72.4-0ubuntu0.22.04.3-really.is.1.72.2-0ubuntu2 amd64 [upgradable from: 1.72.2-0ubuntu2]
libgpgme11/jammy-updates 1.16.0-1.2ubuntu4.2 amd64 [upgradable from: 1.16.0-1.2ubuntu4.1]
libgpgmepp6/jammy-updates 1.16.0-1.2ubuntu4.2 amd64 [upgradable from: 1.16.0-1.2ubuntu4.1]
libldap-2.5-0/jammy-updates 2.5.18+dfsg-0ubuntu0.22.04.2 amd64 [upgradable from: 2.5.16+dfsg-0ubuntu0.22.04.2]
libldap-common/jammy-updates,jammy-updates 2.5.18+dfsg-0ubuntu0.22.04.2 all [upgradable from: 2.5.16+dfsg-0ubuntu0.22.04.2]
libnss-glib0/jammy-updates 1.20.0-1-ubuntu22.04.4 amd64 [upgradable from: 1.20.0-1-ubuntu22.04.3]
libnutter-10-0/jammy-updates 42.9-0ubuntu9 amd64 [upgradable from: 42.9-0ubuntu7.1]
libpcap0.8/jammy-updates 1.10.1-4ubuntu1.22.04.1 amd64 [upgradable from: 1.10.1-4build1]
libpulse-mainloop-glib0/jammy-updates 1:15.99.1+dfsg1-1ubuntu2.2 amd64 [upgradable from: 1:15.99.1+dfsg1-1ubuntu2.1]
libpulse0/jammy-updates 1:15.99.1+dfsg1-1ubuntu2.2 amd64 [upgradable from: 1:15.99.1+dfsg1-1ubuntu2.1]
```

-sudo apt upgrade -y:

Installs all available updates without asking for confirmation.

```
Activities Terminal 22:28 14 أكتوبر
jood@jood: ~/Desktop

xserver-xephyr/jammy-updates 2:21.1.4-2ubuntu1.7-22.04.11 amd64 [upgradable from: 2:21.1.4-2ubuntu1.7-22.04.10]
xserver-xorg-core/jammy-updates 2:21.1.4-2ubuntu1.7-22.04.11 amd64 [upgradable from: 2:21.1.4-2ubuntu1.7-22.04.10]
xserver-xorg-legacy/jammy-updates 2:21.1.4-2ubuntu1.7-22.04.11 amd64 [upgradable from: 2:21.1.4-2ubuntu1.7-22.04.10]
jood@jood:~/Desktop$ sudo apt upgrade -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
Get more security updates through Ubuntu Pro with 'esm-apps' enabled:
libpostproc55 libavcodec58 libavutil56 libswscale5 libswresample3
libavformat58 libavfilter7
Learn more about Ubuntu Pro at https://ubuntu.com/pro

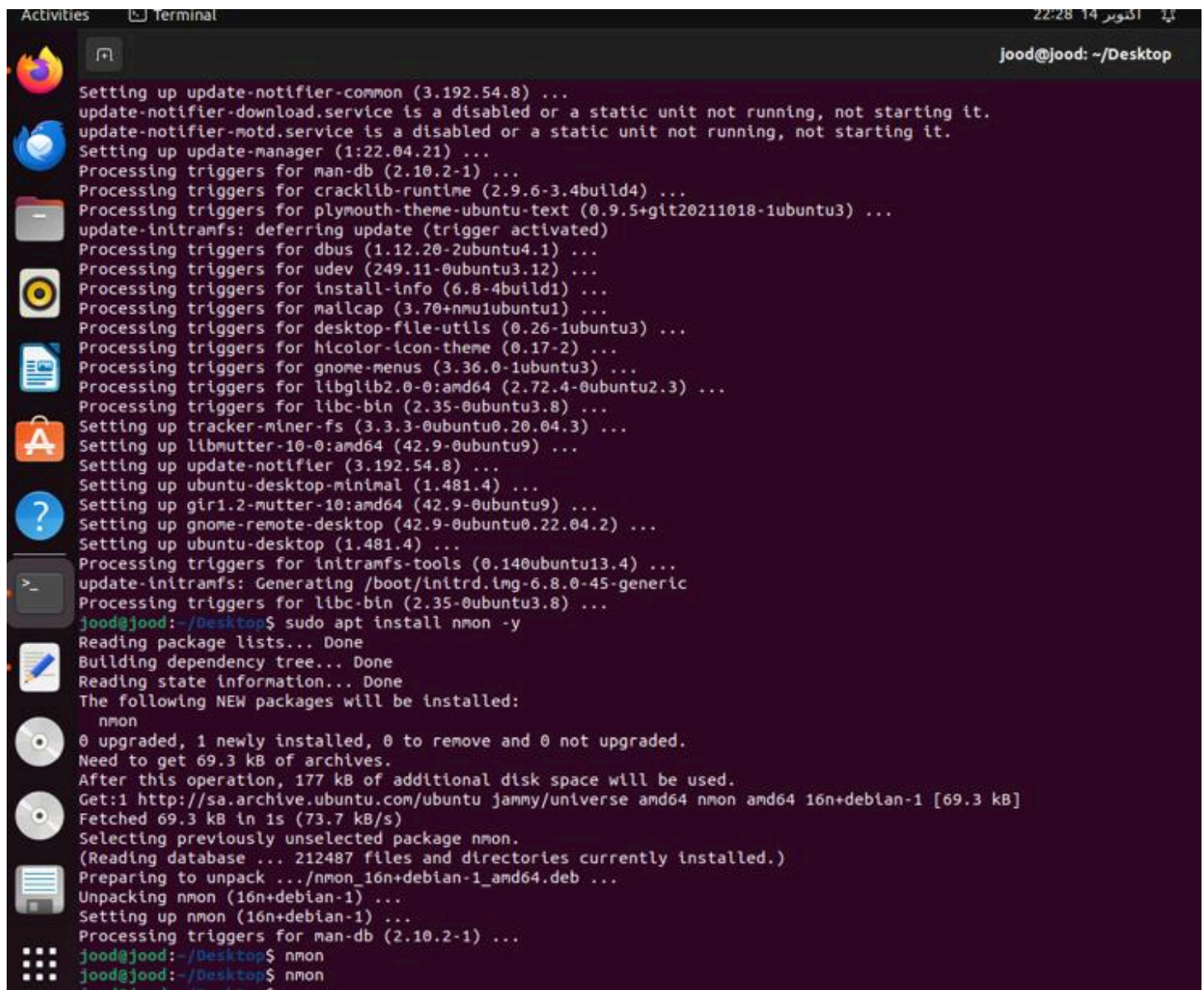
#
# Patches available for packages affected by CUPS Remote Code Execution issue
# tracked by CVE-2024-47076, CVE-2024-47175, CVE-2024-47176, and CVE-2024-47177
# For more see: https://ubuntu.com/blog/cups-remote-code-execution
#
The following NEW packages will be installed:
ubuntu-pro-client
The following packages will be upgraded:
alsa-ucm-conf appport apt apt-utils base-files coreutils dpkg e2fsprogs ethtool firmware-sof-signed glr1.2-mutter-10
gjs gnome-remote-desktop language-pack-en language-pack-en-base language-pack-gnome-en language-pack-gnome-en-base libapt-pkg6.0
libcon-err2 libext2fs2 libfprint-2-2 libgjs0g libgpgme11 libgpgmepp6 libldap-2.5-0 libldap-common libnss-glib0 libnutter-10-0
libpcap0.8 libpulse-mainloop-glib0 libpulse0 libpulse0 libpython3-stdlib libsbmlclient libss2 libwbclient0 linux-firmware
logsave modemmanager nutter-common openvpn pulseaudio pulseaudio-module-bluetooth pulseaudio-utils python-apt-common python3
python3-appport python3-apt python3-distupgrade python3-minimal python3-problem-report python3-update-manager samba-ltss
shim-signed tcpdump tracker-extract tracker-miner-fs tzdata ubuntu-advantage-tools ubuntu-desktop ubuntu-desktop-minimal
ubuntu-drivers-common ubuntu-minimal ubuntu-pro-client-110n ubuntu-release-upgrader-core ubuntu-release-upgrader-gtk
ubuntu-standard update-manager update-manager-core update-notifier update-notifier-common xdg-desktop-portal
xdg-desktop-portal-gnome xserver-common xserver-xephyr xserver-xorg-core xserver-xorg-legacy
78 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 340 MB of archives.
After this operation, 47.1 MB of additional disk space will be used.
Get:1 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 base-files amd64 12ubuntu4.7 [61.9 kB]
Get:2 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 coreutils amd64 8.32-4.1ubuntu1.2 [1437 kB]
Get:3 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapt-pkg6.0 amd64 2.4.13 [912 kB]
Get:4 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dpkg amd64 1.21.1ubuntu2.3 [1239 kB]
Get:5 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apt amd64 2.4.13 [1363 kB]
Get:6 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 apt-utils amd64 2.4.13 [211 kB]
Get:7 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 logsave amd64 1.46.5-2ubuntu1.2 [10.1 kB]
Get:8 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libext2fs2 amd64 1.46.5-2ubuntu1.2 [208 kB]
Get:9 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 e2fsprogs amd64 1.46.5-2ubuntu1.2 [590 kB]
Get:10 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3-minimal amd64 3.10.6-1-22.04.1 [24.3 kB]
Get:11 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 python3 amd64 3.10.6-1-22.04.1 [22.8 kB]
Get:12 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libpython3-stdlib amd64 3.10.6-1-22.04.1 [6812 B]
Get:13 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 language-pack-en all 1:22.04+20240902 [1900 B]
Get:14 http://sa.archive.ubuntu.com/ubuntu jammy-updates/main amd64 language-pack-en-base all 1:22.04+20240902 [418 kB]
```


-sudo apt install nmon -y:

Installs the nmon performance monitoring tool.

-nmon:

this command launches the nmon tool. U can monitor the performance of the system once it's running.

A screenshot of a Linux terminal window with a dark background. The window title is "Terminal" and the user is "jood@jood: ~/Desktop". The terminal shows the output of a system update, followed by the command "sudo apt install nmon -y". The output indicates that nmon is a new package being installed, requiring 69.3 kB of space. The package is downloaded from the Ubuntu archive and then unpacked. Finally, the user runs the "nmon" command twice, which launches the performance monitoring tool.

```
Setting up update-notifier-common (3.192.54.8) ...
update-notifier-download.service is a disabled or a static unit not running, not starting it.
update-notifier-motd.service is a disabled or a static unit not running, not starting it.
Setting up update-manager (1:22.04.21) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for cracklib-runtime (2.9.6-3.4build4) ...
Processing triggers for plymouth-theme-ubuntu-text (0.9.5+git20211018-1ubuntu3) ...
update-initramfs: deferring update (trigger activated)
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Processing triggers for udev (249.11-0ubuntu3.12) ...
Processing triggers for install-info (6.8-4build1) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for libgl1-0:amd64 (2.72.4-0ubuntu2.3) ...
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...
Setting up tracker-miner-fs (3.3.3-0ubuntu0.20.04.3) ...
Setting up libmutter-10-0:amd64 (42.9-0ubuntu9) ...
Setting up update-notifier (3.192.54.8) ...
Setting up ubuntu-desktop-minimal (1.481.4) ...
Setting up gir1.2-mutter-10:amd64 (42.9-0ubuntu9) ...
Setting up gnome-remote-desktop (42.9-0ubuntu0.22.04.2) ...
Setting up ubuntu-desktop (1.481.4) ...
Processing triggers for initramfs-tools (0.140ubuntu13.4) ...
update-initramfs: Generating /boot/initrd.img-6.8.0-45-generic
Processing triggers for libc-bin (2.35-0ubuntu3.8) ...
jood@jood: ~/Desktop$ sudo apt install nmon -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  nmon
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 69.3 kB of archives.
After this operation, 177 kB of additional disk space will be used.
Get:1 http://sa.archive.ubuntu.com/ubuntu jammy/universe amd64 nmon amd64 16n+debian-1 [69.3 kB]
Fetched 69.3 kB in 1s (73.7 kB/s)
Selecting previously unselected package nmon.
(Reading database ... 212487 files and directories currently installed.)
Preparing to unpack .../nmon_16n+debian-1_amd64.deb ...
Unpacking nmon (16n+debian-1) ...
Setting up nmon (16n+debian-1) ...
Processing triggers for man-db (2.10.2-1) ...
jood@jood: ~/Desktop$ nmon
jood@jood: ~/Desktop$ nmon
jood@jood: ~/Desktop$
```

output:

-How the output works:

you can choose the performance type by writing the shortcuts.

-Use the different keyboard shortcuts to show/hide various monitors:

c = CPU monitor .

m = memory monitor .

d = disk monitor .

