

به نام خدا

فائزه برقی

۱. اطمینان از بهروز بودن تمام بسته‌ها:

- ابتدا از بهروز بودن تمامی بسته‌ها در سیستم اطمینان حاصل می‌کنیم.

۲. نصب پیش‌نیازها قبل از نصب Docker:

- برخی پیش‌نیازها برای نصب Docker لازم است که آن‌ها را نصب می‌کنیم.

۳. اضافه کردن کلید GPG Docker:

- کلید GPG Docker را به سیستم اضافه می‌کنیم تا بتوانیم مخزن Docker را به‌درستی شناسایی کنیم.

۴. افزودن مخزن Docker به اوبونتو:

- مخزن Docker مخصوص اوبونتو را به سیستم اضافه می‌کنیم.

۵. به‌روزرسانی لیست بسته‌ها و نصب Docker:

- لیست بسته‌های سیستم را به‌روزرسانی کرده و سپس Docker را نصب می‌کنیم.

۶. اطمینان از نصب صحیح Docker:

- با بررسی نسخه Docker، صحت نصب آن را تأیید می‌کنیم.

۷. نصب Git و بررسی نسخه آن:

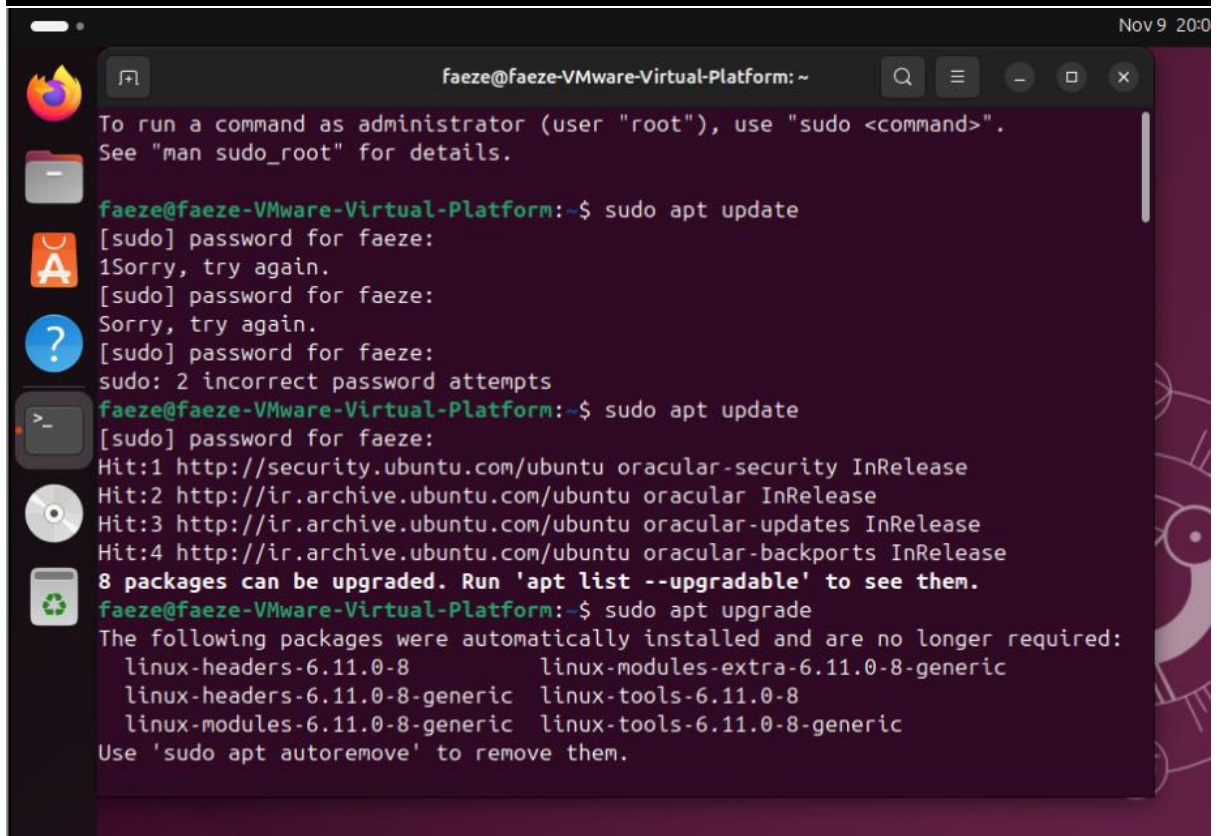
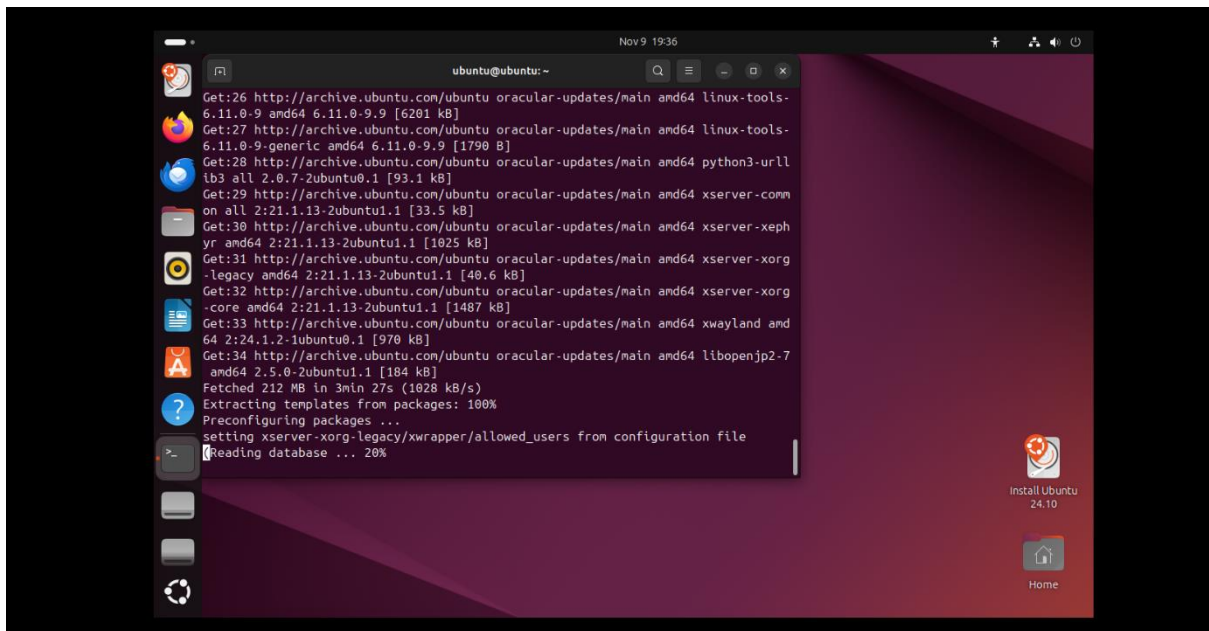
- Git را نصب کرده و نسخه نصب شده آن را بررسی می‌کنیم.

۸. تنظیمات اولیه Git و راه‌اندازی پروژه:

- نام کاربری و ایمیل خود را در Git تنظیم می‌کنیم.
- یک پروژه جدید ایجاد کرده و در پوشه مورد نظر Git را راه‌اندازی می‌کنیم.
- یک مخزن خالی Git در این پوشه ایجاد کرده و آن را به گیت‌هاب متصل می‌کنیم.
- سپس اولین کامیت خود را به گیت‌هاب ارسال می‌کنیم.

```
faeze@faeze-VMware-Virtual-Platform: ~  
Setting up docker-ce-rootless-extras (5:27.3.1-1-ubuntu.24.10~oracular) ...  
Setting up slirp4netns (1.2.1-1build2) ...  
Setting up docker-ce (5:27.3.1-1-ubuntu.24.10~oracular) ...  
Created symlink '/etc/systemd/system/multi-user.target.wants/docker.service' → '  
/usr/lib/systemd/system/docker.service'.  
Created symlink '/etc/systemd/system/sockets.target.wants/docker.socket' → '/usr  
/lib/systemd/system/docker.socket'.  
Processing triggers for man-db (2.12.1-3) ...  
Processing triggers for libc-bin (2.40-1ubuntu3) ...  
faeze@faeze-VMware-Virtual-Platform:~$ docker --version  
Docker version 27.3.1, build ce12230  
faeze@faeze-VMware-Virtual-Platform:~$ docker version  
Client: Docker Engine - Community  
Version:      27.3.1  
API version:  1.47  
Go version:   go1.22.7  
Git commit:   ce12230  
Built:        Fri Sep 20 11:40:42 2024  
OS/Arch:      linux/amd64  
Context:      default  
permission denied while trying to connect to the Docker daemon socket at unix://  
/var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.47/version": dia  
l unix /var/run/docker.sock: connect: permission denied  
faeze@faeze-VMware-Virtual-Platform:~$
```

```
ubuntu@ubuntu: ~  
Nov 9 19:33  
Notice: Some packages may have been kept back due to phasing.  
Continue? [Y/n] y  
Get:1 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 distro-info-d  
ata all 0.62ubuntu0.1 [6610 B]  
Get:2 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 iproute2 amd6  
4 6.10.0-2ubuntu1 [1142 kB]  
Get:3 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 cups-browsed  
amd64 2.0.1-0ubuntu2.1 [118 kB]  
Get:4 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 gnome-shell-c  
ommon all 47.0-2ubuntu3 [250 kB]  
Get:5 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 gnome-shell a  
md64 47.0-2ubuntu3 [960 kB]  
Get:6 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 grub2-common  
amd64 2.12-5ubuntu5.1 [672 kB]  
Get:7 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 grub-pc amd64  
2.12-5ubuntu5.1 [137 kB]  
Get:8 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 grub-pc-bin a  
md64 2.12-5ubuntu5.1 [1101 kB]  
Get:9 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 grub-common a  
md64 2.12-5ubuntu5.1 [2113 kB]  
Get:10 http://archive.ubuntu.com/ubuntu oracular-updates/main amd64 grub-efi-amd  
64-unsigned amd64 2.12-5ubuntu5.1 [1391 kB]  
8% [10 grub-efi-amd64-unsigned 1338 kB/1391 kB 96%] 890 kB/s 3min 49s  
Show Apps  
Install Ubuntu 24.10  
Home
```




```
faeze@faeze-VMware-Virtual-Platform: ~  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt upgrade  
The following packages were automatically installed and are no longer required:  
  linux-headers-6.11.0-8          linux-modules-extra-6.11.0-8-generic  
  linux-headers-6.11.0-8-generic  linux-tools-6.11.0-8  
  linux-modules-6.11.0-8-generic  linux-tools-6.11.0-8-generic  
Use 'sudo apt autoremove' to remove them.  
  
Upgrading:  
  distro-info-data  gnome-shell-common  grub-pc      grub2-common  
  gnome-shell       grub-common         grub-pc-bin  iproute2  
  
Summary:  
  Upgrading: 8, Installing: 0, Removing: 0, Not Upgrading: 0  
  Download size: 6,381 kB  
  Space needed: 13.3 kB / 19.7 GB available  
  
Continue? [Y/n] y  
Get:1 http://ir.archive.ubuntu.com/ubuntu oracular-updates/main amd64 distro-inf  
o-data all 0.62ubuntu0.1 [6,610 B]  
Get:2 http://ir.archive.ubuntu.com/ubuntu oracular-updates/main amd64 iproute2 a  
md64 6.10.0-2ubuntu1 [1,142 kB]  
Get:3 http://ir.archive.ubuntu.com/ubuntu oracular-updates/main amd64 gnome-shel  
l-common all 47.0-2ubuntu3 [250 kB]  
Get:4 http://ir.archive.ubuntu.com/ubuntu oracular-updates/main amd64 onome-shel
```

```
faeze@faeze-VMware-Virtual-Platform: ~  
Systems on them will not be added to the GRUB boot configuration.  
Check GRUB_DISABLE_OS_PROBER documentation entry.  
Adding boot menu entry for UEFI Firmware Settings ...  
done  
Processing triggers for install-info (7.1-3build2) ...  
Processing triggers for desktop-file-utils (0.27-2build1) ...  
Processing triggers for hicolor-icon-theme (0.18-1) ...  
Processing triggers for gnome-menus (3.36.0-1.1ubuntu3) ...  
Processing triggers for man-db (2.12.1-3) ...  
Processing triggers for libglib2.0-0t64:amd64 (2.82.1-0ubuntu1) ...  
Setting up gnome-shell (47.0-2ubuntu3) ...  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt install apt-transport-https ca-c  
ertificates curl software-properties-common  
ca-certificates is already the newest version (20240203).  
ca-certificates set to manually installed.  
software-properties-common is already the newest version (0.102).  
software-properties-common set to manually installed.  
The following packages were automatically installed and are no longer required:  
  linux-headers-6.11.0-8          linux-modules-extra-6.11.0-8-generic  
  linux-headers-6.11.0-8-generic  linux-tools-6.11.0-8  
  linux-modules-6.11.0-8-generic  linux-tools-6.11.0-8-generic  
Use 'sudo apt autoremove' to remove them.  
  
Installing:
```

```
faeze@faeze-VMware-Virtual-Platform: ~  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt install apt-transport-https ca-c  
ertificates curl software-properties-common  
ca-certificates is already the newest version (20240203).  
ca-certificates set to manually installed.  
software-properties-common is already the newest version (0.102).  
software-properties-common set to manually installed.  
The following packages were automatically installed and are no longer required:  
  linux-headers-6.11.0-8          linux-modules-extra-6.11.0-8-generic  
  linux-headers-6.11.0-8-generic  linux-tools-6.11.0-8  
  linux-modules-6.11.0-8-generic  linux-tools-6.11.0-8-generic  
Use 'sudo apt autoremove' to remove them.  
  
Installing:  
  apt-transport-https  curl  
  
Summary:  
  Upgrading: 0, Installing: 2, Removing: 0, Not Upgrading: 0  
  Download size: 244 kB  
  Space needed: 632 kB / 19.7 GB available  
  
Continue? [Y/n] y  
Get:1 http://ir.archive.ubuntu.com/ubuntu oracular/universe amd64 apt-transport-  
https all 2.9.8 [3,968 B]  
Get:2 http://ir.archive.ubuntu.com/ubuntu oracular/main amd64 curl amd64 8.9.1-2
```

```
faeze@faeze-VMware-Virtual-Platform: ~  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt install apt-transport-https curl  
  
Summary:  
  Upgrading: 0, Installing: 2, Removing: 0, Not Upgrading: 0  
  Download size: 244 kB  
  Space needed: 632 kB / 19.7 GB available  
  
Continue? [Y/n] y  
Get:1 http://ir.archive.ubuntu.com/ubuntu oracular/universe amd64 apt-transport-  
https all 2.9.8 [3,968 B]  
Get:2 http://ir.archive.ubuntu.com/ubuntu oracular/main amd64 curl amd64 8.9.1-2  
ubuntu2 [240 kB]  
Fetched 244 kB in 5s (53.6 kB/s)  
Selecting previously unselected package apt-transport-https.  
(Reading database ... 188863 files and directories currently installed.)  
Preparing to unpack .../apt-transport-https_2.9.8_all.deb ...  
Unpacking apt-transport-https (2.9.8) ...  
Selecting previously unselected package curl.  
Preparing to unpack .../curl_8.9.1-2ubuntu2_amd64.deb ...  
Unpacking curl (8.9.1-2ubuntu2) ...  
Setting up apt-transport-https (2.9.8) ...  
Setting up curl (8.9.1-2ubuntu2) ...  
Processing triggers for man-db (2.12.1-3) ...  
faeze@faeze-VMware-Virtual-Platform:~$
```


Summary:
Upgrading: 0, Installing: 3, Removing: 0, Not Upgrading: 0
Download size: 0 B / 5,076 kB
Space needed: 26.3 MB / 19.5 GB available

Continue? [Y/n] y
Selecting previously unselected package liberror-perl.
(Reading database ... 188878 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17029-2_all.deb ...
Unpacking liberror-perl (0.17029-2) ...
Selecting previously unselected package git-man.
Preparing to unpack .../git-man_1%3a2.45.2-1ubuntu1_all.deb ...
Unpacking git-man (1:2.45.2-1ubuntu1) ...
Selecting previously unselected package git.
Preparing to unpack .../git_1%3a2.45.2-1ubuntu1_amd64.deb ...
Unpacking git (1:2.45.2-1ubuntu1) ...
Setting up liberror-perl (0.17029-2) ...
Setting up git-man (1:2.45.2-1ubuntu1) ...
Setting up git (1:2.45.2-1ubuntu1) ...
Processing triggers for man-db (2.12.1-3) ...
faeze@faeze-VMware-Virtual-Platform:~\$ git version
git version 2.45.2
faeze@faeze-VMware-Virtual-Platform:~\$

Processing triggers for man-db (2.12.1-3) ...
faeze@faeze-VMware-Virtual-Platform:~\$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
curl: (35) OpenSSL SSL_connect: SSL_ERROR_SYSCALL in connection to download.docker.com:443
gpg: no valid OpenPGP data found.
faeze@faeze-VMware-Virtual-Platform:~\$ sudo apt install apt-transport-https ca-certificates curl software-properties-common
apt-transport-https is already the newest version (2.9.8).
ca-certificates is already the newest version (20240203).
curl is already the newest version (8.9.1-2ubuntu2).
software-properties-common is already the newest version (0.102).
The following packages were automatically installed and are no longer required:
linux-headers-6.11.0-8 linux-modules-extra-6.11.0-8-generic
linux-headers-6.11.0-8-generic linux-tools-6.11.0-8
linux-modules-6.11.0-8-generic linux-tools-6.11.0-8-generic
Use 'sudo apt autoremove' to remove them.

Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0
faeze@faeze-VMware-Virtual-Platform:~\$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
File '/usr/share/keyrings/docker-archive-keyring.gpg' exists. Overwrite? (y/N) y

```
faeze@faeze-VMware-Virtual-Platform: ~  
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0  
faeze@faeze-VMware-Virtual-Platform:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg  
File '/usr/share/keyrings/docker-archive-keyring.gpg' exists. Overwrite? (y/N) y  
faeze@faeze-VMware-Virtual-Platform:~$ echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt update  
Hit:1 http://security.ubuntu.com/ubuntu oracular-security InRelease  
Hit:2 http://ir.archive.ubuntu.com/ubuntu oracular InRelease  
Hit:3 http://ir.archive.ubuntu.com/ubuntu oracular-updates InRelease  
Hit:4 http://ir.archive.ubuntu.com/ubuntu oracular-backports InRelease  
Ign:5 https://download.docker.com/linux/ubuntu oracular InRelease  
Get:5 https://download.docker.com/linux/ubuntu oracular InRelease [29.1 kB]  
Get:6 https://download.docker.com/linux/ubuntu oracular/stable amd64 Packages [3,547 B]  
Fetched 32.7 kB in 46s (704 B/s)  
All packages are up to date.  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt install docker-ce  
The following packages were automatically installed and are no longer required:  
  linux-headers-6.11.0-8      linux-modules-extra-6.11.0-8-generic  
  linux-headers-6.11.0-8-generic  linux-tools-6.11.0-8
```

```
faeze@faeze-VMware-Virtual-Platform: ~  
All packages are up to date.  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt install docker-ce  
The following packages were automatically installed and are no longer required:  
  linux-headers-6.11.0-8      linux-modules-extra-6.11.0-8-generic  
  linux-headers-6.11.0-8-generic  linux-tools-6.11.0-8  
  linux-modules-6.11.0-8-generic  linux-tools-6.11.0-8-generic  
Use 'sudo apt autoremove' to remove them.  
  
Installing:  
  docker-ce  
  
Installing dependencies:  
  containerd.io      docker-ce-rootless-extras  git-man      pigz  
  docker-buildx-plugin  docker-compose-plugin      liberror-perl  slirp4netns  
  docker-ce-cli      git      libslirp0  
  
Suggested packages:  
  aufs-tools      git-daemon-run      git-email  gitweb      git-svn  
  cgroupfs-mount  | git-daemon-sysvinit  git-gui    git-cvs  
  | cgroup-lite    git-doc      gitk      git-mediawiki  
  
Summary:  
  Upgrading: 0, Installing: 12, Removing: 0, Not Upgrading: 0  
  Download size: 128 MB
```



```
faeze@faeze-VMware-Virtual-Platform: ~  
Installing dependencies:  
containerd.io      docker-ce-rootless-extras  git-man      pigz  
docker-buildx-plugin  docker-compose-plugin      liberror-perl  slirp4netns  
docker-ce-cli      git                        libslirp0  
  
Suggested packages:  
aufs-tools      git-daemon-run      git-email  gitweb      git-svn  
cgroupfs-mount  | git-daemon-sysvinit  git-gui    git-cvs  
| cgroup-lite   git-doc              gitk        git-mediawiki  
  
Summary:  
Upgrading: 0, Installing: 12, Removing: 0, Not Upgrading: 0  
Download size: 128 MB  
Space needed: 468 MB / 19.6 GB available  
  
Continue? [Y/n] y  
Get:1 https://download.docker.com/linux/ubuntu oracular/stable amd64 containerd.io amd64 1.7.22-1 [29.5 MB]  
Get:2 http://ir.archive.ubuntu.com/ubuntu oracular/universe amd64 pigz amd64 2.8-1 [65.6 kB]  
Get:3 http://ir.archive.ubuntu.com/ubuntu oracular/main amd64 liberror-perl all 0.17029-2 [25.6 kB]  
Get:4 http://ir.archive.ubuntu.com/ubuntu oracular/main amd64 git-man all 1:2.45-2ubuntu1 [1,122 kB]
```

```
faeze@faeze-VMware-Virtual-Platform: ~  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt install -f --fix-missing  
The following packages were automatically installed and are no longer required:  
linux-headers-6.11.0-8      linux-modules-extra-6.11.0-8-generic  
linux-headers-6.11.0-8-generic  linux-tools-6.11.0-8  
linux-modules-6.11.0-8-generic  linux-tools-6.11.0-8-generic  
Use 'sudo apt autoremove' to remove them.  
  
Summary:  
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0  
faeze@faeze-VMware-Virtual-Platform:~$ sudo apt install docker-ce  
The following packages were automatically installed and are no longer required:  
linux-headers-6.11.0-8      linux-modules-extra-6.11.0-8-generic  
linux-headers-6.11.0-8-generic  linux-tools-6.11.0-8  
linux-modules-6.11.0-8-generic  linux-tools-6.11.0-8-generic  
Use 'sudo apt autoremove' to remove them.  
  
Installing:  
docker-ce  
  
Installing dependencies:  
containerd.io      docker-ce-rootless-extras  git-man      pigz  
docker-buildx-plugin  docker-compose-plugin      liberror-perl  slirp4netns  
docker-ce-cli      git                        libslirp0
```


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faeze@faeze-VMware-Virtual-Platform: ~

```
Unpacking libslirp0:amd64 (4.8.0-1ubuntu1) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../8-slirp4netns_1.2.1-1build2_amd64.deb ...
Unpacking slirp4netns (1.2.1-1build2) ...
Setting up docker-buildx-plugin (0.17.1-1-ubuntu.24.10-oracular) ...
Setting up containerd.io (1.7.22-1) ...
Created symlink '/etc/systemd/system/multi-user.target.wants/containerd.service'
→ '/usr/lib/systemd/system/containerd.service'.
Setting up docker-compose-plugin (2.29.7-1-ubuntu.24.10-oracular) ...
Setting up docker-ce-cli (5:27.3.1-1-ubuntu.24.10-oracular) ...
Setting up libslirp0:amd64 (4.8.0-1ubuntu1) ...
Setting up pigz (2.8-1) ...
Setting up docker-ce-rootless-extras (5:27.3.1-1-ubuntu.24.10-oracular) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:27.3.1-1-ubuntu.24.10-oracular) ...
Created symlink '/etc/systemd/system/multi-user.target.wants/docker.service' → '
/usr/lib/systemd/system/docker.service'.
Created symlink '/etc/systemd/system/sockets.target.wants/docker.socket' → '/usr
/lib/systemd/system/docker.socket'.
Processing triggers for man-db (2.12.1-3) ...
Processing triggers for libc-bin (2.40-1ubuntu3) ...
faeze@faeze-VMware-Virtual-Platform:~$
```