

```
mkanisetty@server: ~/scripts
```

Current Date and Time:  
Tue Jun 18 10:49:20 AM IST 2024

```
mkanisetty@server:~/scripts$ ./execute_commands.sh
```

Executing commands on vardhan@10.0.2.4...  
Uptime:  
10:51:25 up 50 min, 2 users, load average: 0.00, 0.00, 0.08

System Information:  
Linux client1 6.8.0-35-generic #35-Ubuntu SMP PREEMPT\_DYNAMIC Mon May 20 15:51:52 UTC 2024 x86\_64 x86\_64 x86\_64 GNU/Linux

Current Date and Time:  
Tue Jun 18 10:51:27 AM IST 2024

Executing commands on dhanush@10.0.2.6...  
Uptime:  
10:51:28 up 50 min, 2 users, load average: 0.04, 0.02, 0.00

System Information:  
Linux mkanisetty-VirtualBox 6.8.0-35-generic #35-Ubuntu SMP PREEMPT\_DYNAMIC Mon May 20 15:51:52 UTC 2024 x86\_64 x86\_64 x86\_64 GNU/Linux

Current Date and Time:  
Tue Jun 18 10:51:29 AM IST 2024

```
mkanisetty@server:~/scripts$ touch important_information
```

```
mkanisetty@server:~/scripts$ ls
```

```
execute_commands.sh  important_information
```

```
mkanisetty@server:~/scripts$ nano important_information
```

```
mkanisetty@server:~/scripts$ pwd
```

```
/home/mkanisetty/scripts
```

```
mkanisetty@server:~/scripts$ scp /home/mkanisetty/scripts/important_information vardhan@10.0.2.4:/home/vardhan/
```

```
important_information      100% 2787   554.9KB/s  00:00
```

```
mkanisetty@server:~/scripts$ scp /home/mkanisetty/scripts/important_information dhanush@10.0.2.6:/home/dhanush/
```

```
important_information      100% 2787    1.0MB/s  00:00
```

```
mkanisetty@server:~/scripts$ █
```

```
mkanisetty@server: ~/scripts
Executing commands on dhanush@10.0.2.6...
Uptime:
 10:51:28 up 50 min,  2 users,  load average: 0.04, 0.02, 0.00
System Information:
Linux mkanisetty-VirtualBox 6.8.0-35-generic #35-Ubuntu SMP PREEMPT_DYNAMIC Mon May 20 15:51:52 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
Current Date and Time:
Tue Jun 18 10:51:29 AM IST 2024
mkanisetty@server:~/scripts$ touch important_information
mkanisetty@server:~/scripts$ ls
execute_commands.sh  important_information
mkanisetty@server:~/scripts$ nano important_information
mkanisetty@server:~/scripts$ pwd
/home/mkanisetty/scripts
mkanisetty@server:~/scripts$ scp /home/mkanisetty/scripts/important_information vardhan@10.0.2.4:/home/vardhan/
important_information          100% 2787  554.9KB/s  00:00
mkanisetty@server:~/scripts$ scp /home/mkanisetty/scripts/important_information dhanush@10.0.2.6:/home/dhanush/
important_information          100% 2787   1.0MB/s  00:00
mkanisetty@server:~/scripts$ touch secure_transfer.sh
mkanisetty@server:~/scripts$ ls
execute_commands.sh  important_information  secure_transfer.sh
mkanisetty@server:~/scripts$ nano secure_transfer.sh
mkanisetty@server:~/scripts$ ./secure_transfer.sh
bash: ./secure_transfer.sh: Permission denied
mkanisetty@server:~/scripts$ chmod 700 secure_transfer.sh
mkanisetty@server:~/scripts$ ls
execute_commands.sh  important_information  secure_transfer.sh
mkanisetty@server:~/scripts$ ./secure_transfer.sh
Transferring file to dhanush@10.0.2.6:/home/dhanush...
important_information
File transferred successfully to dhanush@10.0.2.6.
Transferring file to vardhan@10.0.2.4:/home/vardhan...
important_information
File transferred successfully to vardhan@10.0.2.4.
mkanisetty@server:~/scripts$
```

```
mkanisetty@server: ~/scripts
Executing commands on dhanush@10.0.2.6...
Uptime:
10:51:28 up 50 min, 2 users, load average: 0.04, 0.02, 0.00
System Information:
Linux mkanisetty-VirtualBox 6.8.0-35-generic #35-Ubuntu SMP PREEMPT_DYNAMIC Mon May 20 15:51:52 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
Current Date and Time:
Tue Jun 18 10:51:29 AM IST 2024
mkanisetty@server:~/scripts$ touch important_information
mkanisetty@server:~/scripts$ ls
execute_commands.sh  important_information
mkanisetty@server:~/scripts$ nano important_information
mkanisetty@server:~/scripts$ pwd
/home/mkanisetty/scripts
mkanisetty@server:~/scripts$ scp /home/mkanisetty/scripts/important_information vardhan@10.0.2.4:/home/vardhan/
important_information          100% 2787   554.9KB/s  00:00
mkanisetty@server:~/scripts$ scp /home/mkanisetty/scripts/important_information dhanush@10.0.2.6:/home/dhanush/
important_information          100% 2787   1.0MB/s  00:00
mkanisetty@server:~/scripts$ touch secure_transfer.sh
mkanisetty@server:~/scripts$ ls
execute_commands.sh  important_information  secure_transfer.sh
mkanisetty@server:~/scripts$ nano secure_transfer.sh
mkanisetty@server:~/scripts$ ./secure_transfer.sh
bash: ./secure_transfer.sh: Permission denied
mkanisetty@server:~/scripts$ chmod 700 secure_transfer.sh
mkanisetty@server:~/scripts$ ls
execute_commands.sh  important_information  secure_transfer.sh
mkanisetty@server:~/scripts$ ./secure_transfer.sh
Transferring file to dhanush@10.0.2.6:/home/dhanush...
important_information          100% 2787   573.6KB/s  00:00
File transferred successfully to dhanush@10.0.2.6.
Transferring file to vardhan@10.0.2.4:/home/vardhan...
important_information          100% 2787   1.2MB/s  00:00
File transferred successfully to vardhan@10.0.2.4.
mkanisetty@server:~/scripts$
```

```
mkanisetty@server:~/flask-app
```

```
mkanisetty@server:~$ mkdir flask-app
mkanisetty@server:~$ cd flask-app
mkanisetty@server:~/flask-app$ touch app.py
mkanisetty@server:~/flask-app$ ls
app.py
mkanisetty@server:~/flask-app$ touch requirements.txt
mkanisetty@server:~/flask-app$ ls
app.py requirements.txt
mkanisetty@server:~/flask-app$ mkdir static
mkanisetty@server:~/flask-app$ mkdir templates
mkanisetty@server:~/flask-app$ ls
app.py requirements.txt static templates
mkanisetty@server:~/flask-app$ nano app.py
mkanisetty@server:~/flask-app$ cd templates
mkanisetty@server:~/flask-app/templates$ ls
mkanisetty@server:~/flask-app/templates$ touch index.html
mkanisetty@server:~/flask-app/templates$ ls
index.html
mkanisetty@server:~/flask-app/templates$ nano index.html
mkanisetty@server:~/flask-app/templates$ cd ..
mkanisetty@server:~/flask-app$ ls
app.py requirements.txt static templates
mkanisetty@server:~/flask-app$ nano requirements.txt
mkanisetty@server:~/flask-app$ touch Dockerfile
mkanisetty@server:~/flask-app$ nano Dockerfile
mkanisetty@server:~/flask-app$ ls
app.py Dockerfile requirements.txt static templates
mkanisetty@server:~/flask-app$
```

```
mkanisetty@server: ~/flask-app
Unit docker.service could not be found.
mkanisetty@server:~/flask-app$ sudo apt update
[sudo] password for mkanisetty:
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Fetched 126 kB in 1s (105 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
20 packages can be upgraded. Run 'apt list --upgradable' to see them.
mkanisetty@server:~/flask-app$ sudo apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages will be upgraded:
ghostscript libgs-common libgs10 libgs10-common libipa-hbac0t64 libnss-sss libpam-sss libsss-certmap0 libsss-idmap0 libsss-nss-idmap0 python3-sss sssd sssd-ad sssd-ad-common
sssd-common sssd-ipa sssd-krb5 sssd-krb5-common sssd-ldap sssd-proxy
20 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
20 standard LTS security updates
Need to get 0 B/6,606 kB of archives.
After this operation, 8,192 B of additional disk space will be used.
Do you want to continue? [Y/n] y
(Reading database ... 188770 files and directories currently installed.)
Preparing to unpack .../00-ghostscript_10.02.1~dfsg1-0ubuntu7.1_amd64.deb ...
Unpacking ghostscript (10.02.1~dfsg1-0ubuntu7.1) over (10.02.1~dfsg1-0ubuntu7) ...
Preparing to unpack .../01-libgs10_10.02.1~dfsg1-0ubuntu7.1_amd64.deb ...
Unpacking libgs10:amd64 (10.02.1~dfsg1-0ubuntu7.1) over (10.02.1~dfsg1-0ubuntu7) ...
Preparing to unpack .../02-libgs10-common_10.02.1~dfsg1-0ubuntu7.1_all.deb ...
Unpacking libgs10-common (10.02.1~dfsg1-0ubuntu7.1) over (10.02.1~dfsg1-0ubuntu7) ...
Preparing to unpack .../03-libgs-common_10.02.1~dfsg1-0ubuntu7.1_all.deb ...
Unpacking libgs-common (10.02.1~dfsg1-0ubuntu7.1) over (10.02.1~dfsg1-0ubuntu7) ...
Preparing to unpack .../04-sssd_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../05-python3-sss_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking python3-sss (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6)
```

mkanisetty@server: ~/flask-app

```
Preparing to unpack .../05-python3sss_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking python3sss (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../06-sssd-ad_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd-ad (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../07-sssd-ldap_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd-ldap (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../08-sssd-krb5_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd-krb5 (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../09-sssd-ipa_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd-ipa (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../10-sssd-krb5-common_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd-krb5-common (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../11-libsss-certmap0_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking libsss-certmap0 (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../12-sssd-proxy_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd-proxy (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../13-sssd-ad-common_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd-ad-common (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../14-sssd-common_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking sssd-common (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../15-libnss-sss_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking libnss-sss:amd64 (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../16-libpam-sss_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking libpam-sss:amd64 (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../17-libsss-nss-idmap0_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking libsss-nss-idmap0 (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../18-libsss-idmap0_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking libsss-idmap0 (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Preparing to unpack .../19-libipa-hbac0t64_2.9.4-1.1ubuntu6.1_amd64.deb ...
Unpacking libipa-hbac0t64 (2.9.4-1.1ubuntu6.1) over (2.9.4-1.1ubuntu6) ...
Setting up libsss-idmap0 (2.9.4-1.1ubuntu6.1) ...
Setting up libipa-hbac0t64 (2.9.4-1.1ubuntu6.1) ...
Setting up libgs-common (10.02.1~dfsg1-0ubuntu7.1) ...
Setting up python3sss (2.9.4-1.1ubuntu6.1) ...
Setting up libsss-certmap0 (2.9.4-1.1ubuntu6.1) ...
Setting up libsss-nss-idmap0 (2.9.4-1.1ubuntu6.1) ...
Setting up libpam-sss:amd64 (2.9.4-1.1ubuntu6.1) ...
Setting up libipa-hbac0t64 (2.9.4-1.1ubuntu6.1) ...
```

```
mkanisetty@server: ~/flask-app
Setting up libpam-sss:amd64 (2.9.4-1.1ubuntu6.1) ...
Setting up libnss-sss:amd64 (2.9.4-1.1ubuntu6.1) ...
Setting up libgs10-common (10.02.1-dfsg1-0ubuntu7.1) ...
Setting up sssd-common (2.9.4-1.1ubuntu6.1) ...
Setting up libpam-sss in /etc/apparmor.d/force-complain, forcing complain mode
Warning from /etc/apparmor.d/usr.sbin.sssd (/etc/apparmor.d/usr.sbin.sssd line 63): Caching disabled for: 'usr.sbin.sssd' due to force complain
sssd-autofs.service is a disabled or a static unit not running, not starting it.
sssd-nss.service is a disabled or a static unit not running, not starting it.
sssd-pam.service is a disabled or a static unit not running, not starting it.
sssd-ssh.service is a disabled or a static unit not running, not starting it.
sssd-sudo.service is a disabled or a static unit not running, not starting it.
Could not execute systemctl: at /usr/bin/deb-systemd-invoke line 148.
Setting up sssd-proxy (2.9.4-1.1ubuntu6.1) ...
Setting up sssd-ad-common (2.9.4-1.1ubuntu6.1) ...
sssd-pac.service is a disabled or a static unit not running, not starting it.
Could not execute systemctl: at /usr/bin/deb-systemd-invoke line 148.
Setting up sssd-krb5-common (2.9.4-1.1ubuntu6.1) ...
Setting up sssd-krb5 (2.9.4-1.1ubuntu6.1) ...
Setting up sssd-ldap (2.9.4-1.1ubuntu6.1) ...
Setting up libgs10:amd64 (10.02.1-dfsg1-0ubuntu7.1) ...
Setting up sssd-ad (2.9.4-1.1ubuntu6.1) ...
Setting up ghostscript (10.02.1~dfsg1-0ubuntu7.1) ...
Setting up sssd-ipa (2.9.4-1.1ubuntu6.1) ...
Setting up sssd (2.9.4-1.1ubuntu6.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
mkanisetty@server:~/flask-app$ sudo apt install apt-transport-https ca-certificates curl software-properties-common
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
ca-certificates is already the newest version (20240203).
ca-certificates set to manually installed.
software-properties-common is already the newest version (0.99.48).
software-properties-common set to manually installed.
The following NEW packages will be installed:
  apt-transport-https curl
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 220 kB of archives.
```

```
mkanisetty@server: ~/flask-app
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.
Need to get 230 kB of archives.
After this operation, 568 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 apt-transport-https all 2.7.14build2 [3,974 B]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 curl amd64 8.5.0-2ubuntu10.1 [227 kB]
Fetched 230 kB in 2s (102 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 188770 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.7.14build2_all.deb ...
Unpacking apt-transport-https (2.7.14build2) ...
Selecting previously unselected package curl.
Preparing to unpack .../curl_8.5.0-2ubuntu10.1_amd64.deb ...
Unpacking curl (8.5.0-2ubuntu10.1) ...
Setting up apt-transport-https (2.7.14build2) ...
Setting up curl (8.5.0-2ubuntu10.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
mkanisetty@server:~/flask-app$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
mkanisetty@server:~/flask-app$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
Repository: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu noble stable'
Description:
Archive for codename: noble components: stable
More info: https://download.docker.com/linux/ubuntu
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Adding deb entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-noble.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-https_download_docker_com_linux_ubuntu-noble.list
Get:1 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:4 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [8,005 B]
Hit:5 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Fetched 56.9 kB in 1s (62.6 kB/s)
Reading package lists... Done
http://download.docker.com/linux/ubuntu/dists/noble/InRelease:1: warning: DEPRECATION: This is a legacy URL for the Docker package repository. It is recommended to use https://get.docker.com/ instead. See https://docs.docker.com/installation/debian/ for details.
```

```
mkanisetty@server: ~/flask-app
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
mkanisetty@server:~/flask-app$ sudo apt update
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
W: https://download.docker.com/linux/ubuntu/dists/noble/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
mkanisetty@server:~/flask-app$ sudo apt install docker-ce docker-ce-cli containerd.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  docker-buildx-plugin docker-ce-rootless-extras docker-compose-plugin git git-man liberror-perl libslirp0 pigz slirp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-rootless-extras docker-compose-plugin git git-man liberror-perl libslirp0 pigz slirp4netns
0 upgraded, 12 newly installed, 0 to remove and 0 not upgraded.
Need to get 126 MB of archives.
After this operation, 459 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io amd64 1.6.33-1 [30.0 MB]
Get:2 http://archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble/main amd64 liberror-perl all 0.17029-2 [25.6 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 git-man all 1:2.43.0-1ubuntu7.1 [1,100 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 git amd64 1:2.43.0-1ubuntu7.1 [3,679 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 libslirp0 amd64 4.7.0-1ubuntu3 [63.8 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 slirp4netns amd64 1.2.1-1build2 [34.9 kB]
Get:8 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-buildx-plugin amd64 0.14.1-1-ubuntu.24.04-noble [29.6 MB]
Get:9 https://download.docker.com/linux/ubuntu/noble/stable amd64 docker-ce-all amd64 5.26.1-1-ubuntu.24.04-noble [14.6 MB]
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mkanisetty@server: ~/flask-app
Get:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 slirp4netns amd64 1.2.1-1build2 [34.9 kB]
Get:8 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-buildx-plugin amd64 0.14.1-1~ubuntu.24.04~noble [29.6 MB]
Get:9 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cli amd64 5:26.1.4-1~ubuntu.24.04~noble [14.6 MB]
Get:10 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:26.1.4-1~ubuntu.24.04~noble [25.3 MB]
Get:11 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-rootless-extras amd64 5:26.1.4-1~ubuntu.24.04~noble [9,318 kB]
Get:12 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-compose-plugin amd64 2.27.1-1~ubuntu.24.04~noble [12.5 MB]
Fetched 126 MB in 25s (4,997 kB/s)
Selecting previously unselected package pigz.
(Reading database ... 188781 files and directories currently installed.)
Preparing to unpack .../00-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
Selecting previously unselected package containerd.io.
Preparing to unpack .../01-containerd.io_1.6.33-1_amd64.deb ...
Unpacking containerd.io (1.6.33-1) ...
Selecting previously unselected package docker-buildx-plugin.
Preparing to unpack .../02-docker-buildx-plugin_0.14.1-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-buildx-plugin (0.14.1-1~ubuntu.24.04~noble) ...
Selecting previously unselected package docker-ce-cli.
Preparing to unpack .../03-docker-ce-cli_5%3a26.1.4-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-ce-cli (5:26.1.4-1~ubuntu.24.04~noble) ...
Selecting previously unselected package docker-ce.
Preparing to unpack .../04-docker-ce_5%3a26.1.4-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-ce (5:26.1.4-1~ubuntu.24.04~noble) ...
Selecting previously unselected package docker-ce-rootless-extras.
Preparing to unpack .../05-docker-ce-rootless-extras_5%3a26.1.4-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-ce-rootless-extras (5:26.1.4-1~ubuntu.24.04~noble) ...
Selecting previously unselected package docker-compose-plugin.
Preparing to unpack .../06-docker-compose-plugin_2.27.1-1~ubuntu.24.04~noble_amd64.deb ...
Unpacking docker-compose-plugin (2.27.1-1~ubuntu.24.04~noble) ...
Selecting previously unselected package liberror-perl.
Preparing to unpack .../07-liberror-perl_0.17029-2_all.deb ...
Unpacking liberror-perl (0.17029-2) ...
Selecting previously unselected package git-man.
Preparing to unpack .../08-git-man_1%3a2.43.0-1ubuntu7.1_all.deb ...
Unpacking git-man (1:2.43.0-1ubuntu7.1) ...
Selecting previously unselected package git.
Preparing to unpack .../09-git_1%3a2.43.0-1ubuntu7.1_amd64.deb ...
Unpacking git (1:2.43.0-1ubuntu7.1)
```

```
mkanisetty@server: ~/flask-app
Selecting previously unselected package git-man.
Preparing to unpack .../08-git-man_1%3a2.43.0-1ubuntu7.1_all.deb ...
Unpacking git-man (1:2.43.0-1ubuntu7.1) ...
Selecting previously unselected package git.
Preparing to unpack .../09-git_1%3a2.43.0-1ubuntu7.1_amd64.deb ...
Unpacking git (1:2.43.0-1ubuntu7.1) ...
Selecting previously unselected package libslirp0:amd64.
Preparing to unpack .../10-libslirp0_4.7.0-1ubuntu3_amd64.deb ...
Unpacking libslirp0:amd64 (4.7.0-1ubuntu3) ...
Selecting previously unselected package slirp4netns.
Preparing to unpack .../11-slirp4netns_1.2.1-1build2_amd64.deb ...
Unpacking slirp4netns (1.2.1-1build2) ...
Setting up liberror-perl (0.17029-2) ...
Setting up docker-buildx-plugin (0.14.1-1~ubuntu.24.04-noble) ...
Setting up containerd.io (1.6.33-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.27.1-1~ubuntu.24.04-noble) ...
Setting up docker-ce-cli (5:26.1.4-1~ubuntu.24.04-noble) ...
Setting up libslirp0:amd64 (4.7.0-1ubuntu3) ...
Setting up pigz (2.8-1) ...
Setting up git-man (1:2.43.0-1ubuntu7.1) ...
Setting up docker-ce-rootless-extras (5:26.1.4-1~ubuntu.24.04-noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:26.1.4-1~ubuntu.24.04-noble) ...
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.
Setting up git (1:2.43.0-1ubuntu7.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
mkanisetty@server:~/flask-app$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:d1b0b5888fbb5911dbf2b3ed698489c41046cb9d6d61743e37ef8d9f3dda06f
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message means that your Docker installation is working correctly.
```

```
mkanisetty@server: ~/flask-app
Setting up docker-ce-rootless-extras (5:26.1.4-1~ubuntu.24.04~noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:26.1.4-1~ubuntu.24.04~noble) ...
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.
Setting up git (1:2.43.0-1ubuntu7.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.2) ...
mkanisetty@server:~/flask-app$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:d1b0b588fbb59111dbf2b3ed698489c41046cb9d6d61743e37ef8d9f3dda06f
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
mkanisetty@server:~/flask-app$
```

```
mkanisetty@server:~/flask-app$ ls
app.py Dockerfile requirements.txt static templates
mkanisetty@server:~/flask-app$ docker build -t my-flask-app-image ./flask-app
ERROR: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://%2Fvar%2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect: permission denied
mkanisetty@server:~/flask-app$ sudo getent group docker
docker:x:984:
mkanisetty@server:~/flask-app$ sudo usermod -aG docker mkanisetty
mkanisetty@server:~/flask-app$ sudo getent group docker
docker:x:984:mkanisetty
mkanisetty@server:~/flask-app$ groups mkanisetty
mkanisetty : mkanisetty adm cdrom sudo dip plugdev users lpadmin docker
mkanisetty@server:~/flask-app$
```

```
mkanisetty@server:~/flask-app
mkanisetty@server:~/flask-app$ cd flask-app
mkanisetty@server:~/flask-app$ sudo systemctl restart docker
[sudo] password for mkanisetty:
mkanisetty@server:~/flask-app$ docker build -t my-flask-app-image ./flask-app
ERROR: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://var%2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect: permission denied
mkanisetty@server:~/flask-app$ groups mkanisetty
mkanisetty : mkanisetty adm cdrom sudo dip plugdev users lpadmin docker
mkanisetty@server:~/flask-app$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Tue 2024-06-18 15:22:01 IST; 1min 4s ago
     TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
   Main PID: 10822 (dockerd)
     Tasks: 8
    Memory: 27.8M (peak: 29.1M)
      CPU: 171ms
     CGroup: /system.slice/docker.service
             └─10822 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/con

Jun 18 15:22:00 server dockerd[10822]: time="2024-06-18T15:22:00.896771013+05:30"
Jun 18 15:22:00 server dockerd[10822]: time="2024-06-18T15:22:00.898335328+05:30"
Jun 18 15:22:00 server dockerd[10822]: time="2024-06-18T15:22:00.941436625+05:30"
Jun 18 15:22:00 server dockerd[10822]: time="2024-06-18T15:22:00.943558872+05:30"
Jun 18 15:22:01 server dockerd[10822]: time="2024-06-18T15:22:01.050757318+05:30"
Jun 18 15:22:01 server dockerd[10822]: time="2024-06-18T15:22:01.080760476+05:30"
Jun 18 15:22:01 server dockerd[10822]: time="2024-06-18T15:22:01.098745237+05:30"
Jun 18 15:22:01 server dockerd[10822]: time="2024-06-18T15:22:01.098798137+05:30"
Jun 18 15:22:01 server dockerd[10822]: time="2024-06-18T15:22:01.119578678+05:30"
Jun 18 15:22:01 server systemd[1]: Started docker.service - Docker Application >
lines 1-22/22 (END)
mkanisetty@server:~/flask-app$ ls -l /var/run/docker.sock
srw-rw---- 1 root docker 0 Jun 18 15:04 /var/run/docker.sock
mkanisetty@server:~/flask-app$ sudo systemctl restart docker
mkanisetty@server:~/flask-app$ docker build -t my-flask-app-image ./flask-app
ERROR: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://var%2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect: permission denied
```

```
mkanisetty@server: ~/flask-app
```

```
# Check if the image pull was successful
if [ $? -ne 0 ]; then
    echo "Error: Failed to pull the Docker image 'my-flask-app-image'. Exiting."
    exit 1
fi

# Stop and remove the existing container if it exists
docker stop my-flask-app-container > /dev/null 2>&1 || true
docker rm my-flask-app-container > /dev/null 2>&1 || true

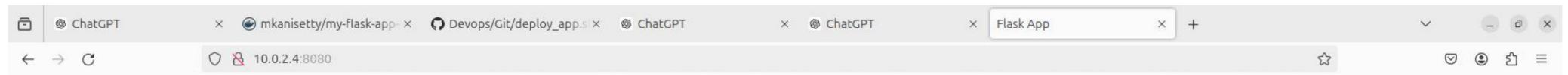
# Run the Docker container
docker run -d --name my-flask-app-container \
    -p 8080:5000 \
    my-flask-app-image

# Check if the container started successfully
if [ $? -ne 0 ]; then
    echo "Error: Failed to start the Docker container 'my-flask-app-container'. Exiting."
    exit 1
else
    echo "Docker container 'my-flask-app-container' started successfully."
fi

# Optional: Add logging for deployment process
echo "$(date +'%Y-%m-%d %H:%M:%S') - Deployment of my-flask-app completed successfully."

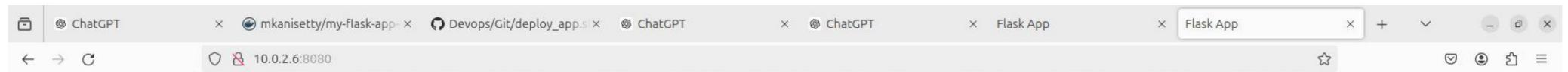
exit 0

$ nano deploy_app.sh
$ ./deploy_app.sh
latest: Pulling from mkanisetty/my-flask-app-image
Digest: sha256:11eee3baa9f79786ac33dc63e5549a5f8aea13ae80eed6b5698c43e10dd0642
Status: Image is up to date for mkanisetty/my-flask-app-image:latest
docker.io/mkanisetty/my-flask-app-image:latest
68bd307483679c3d205c40096fa25ee9ab5fa9620bea60082bb9c60dc56c67ff
Deployment completed successfully.
$
```



## Welcome to my Flask App!

This is a simple Flask application.



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