

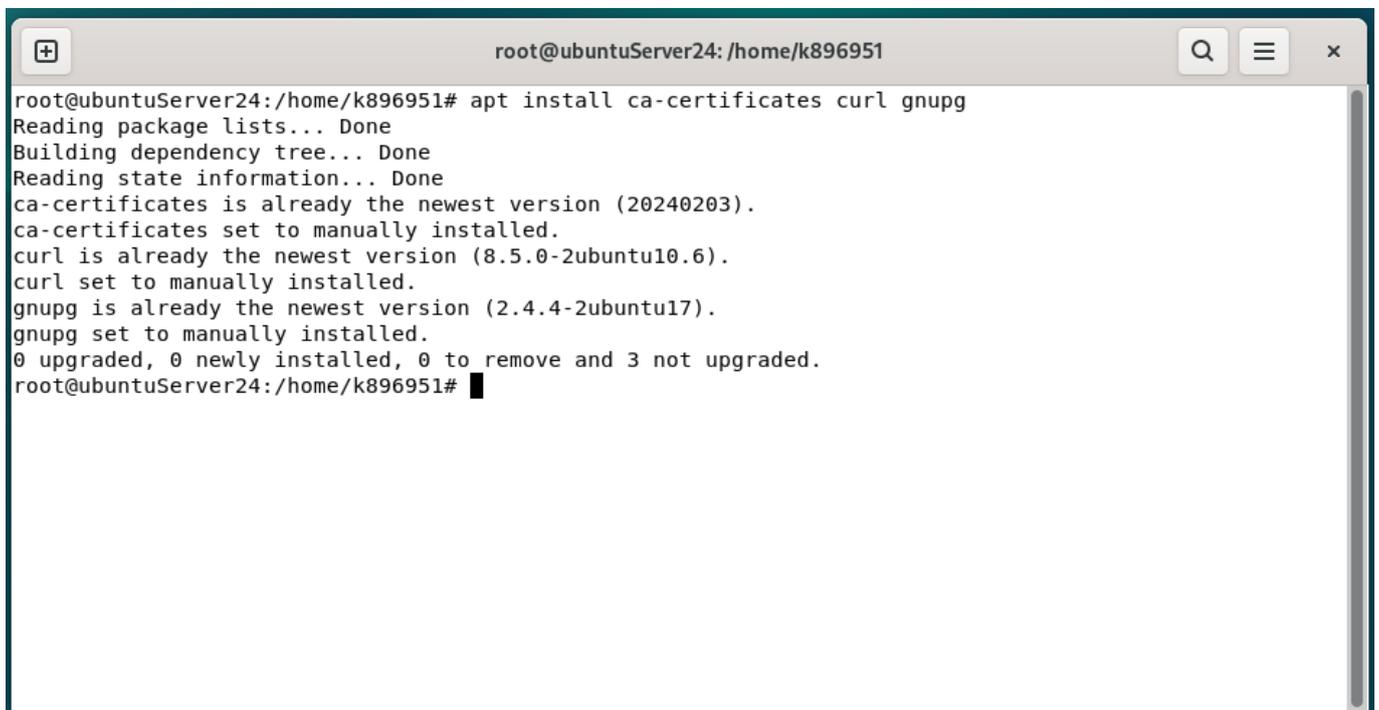
002.Docker Engine 導入

2025-01-22
自分用メモ

必要ファイル、アプリ更新

rootにスイッチしてから、必要なファイル、アプリケーションの更新を行う。この例だと最新になっているので更新が行われていない。

```
apt install ca-certificates curl gnupg
```



```
root@ubuntuServer24: /home/k896951
root@ubuntuServer24:/home/k896951# apt install ca-certificates curl gnupg
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.
curl is already the newest version (8.5.0-2ubuntu10.6).
curl set to manually installed.
gnupg is already the newest version (2.4.4-2ubuntu17).
gnupg set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
root@ubuntuServer24:/home/k896951#
```

GPG鍵取得

ディレクトリ /etc/apt/keyrings を設定し、download.docker.com から gpg鍵を取得しておく。取得情報の検証に使われる(※)

```
install -m 0755 -d /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o
/etc/apt/keyrings/docker.asc
chmod a+r /etc/apt/keyrings/docker.asc
```

```
root@ubuntuServer24: /home/k896951
root@ubuntuServer24:/home/k896951# install -m 0755 -d /etc/apt/keyrings
root@ubuntuServer24:/home/k896951# curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
root@ubuntuServer24:/home/k896951# chmod a+r /etc/apt/keyrings/docker.asc
root@ubuntuServer24:/home/k896951#
```

リポジトリにdocker情報追加

リポジトリにdockerの情報を追加する。以下のコマンドで追加する内容をファイル x.txt に書き出し、この情報をリポジトリに追加する。

```
echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu $(. /etc/os-release && echo "$VERSION_CODENAME") stable" > x.txt
cat x.txt | tee /etc/apt/sources.list.d/docker.list
apt update
```

```
root@ubuntuServer24: /home/k896951
root@ubuntuServer24:/home/k896951# echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu $(. /etc/os-release && echo "$VERSION_CODENAME") stable" > x.txt
root@ubuntuServer24:/home/k896951# cat x.txt
deb [arch=amd64 signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu noble stable
root@ubuntuServer24:/home/k896951# cat x.txt|tee /etc/apt/sources.list.d/docker.list
deb [arch=amd64 signed-by=/etc/apt/keyrings/docker.asc] https://download.docker.com/linux/ubuntu noble stable
root@ubuntuServer24:/home/k896951# apt update
Get:1 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:3 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [18.2 kB]
Hit:4 http://jp.archive.ubuntu.com/ubuntu noble InRelease
Hit:5 http://jp.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:6 http://jp.archive.ubuntu.com/ubuntu noble-backports InRelease
Fetched 67.1 kB in 1s (47.0 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
3 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ubuntuServer24:/home/k896951#
```

グループDocker作成

グループ docker を作り、ユーザを所属させる。この例ではユーザ k896951 を所属させている。

```
root@ubuntuServer24: /home/k896951
root@ubuntuServer24:/home/k896951# groupadd docker
root@ubuntuServer24:/home/k896951# usermod -aG docker k896951
root@ubuntuServer24:/home/k896951#
```

dockerインストール

コマンド `apt -y install docker-ce docker-ce-cli` を実行する。この実行で `containerd.io`、`docker-buildx-plugin`、`docker-compose-plugin` も依存関係によりインストールされる。

```
apt -y install docker-ce docker-ce-cli
```

```
root@ubuntuServer24: /home/k896951
root@ubuntuServer24:/home/k896951# apt -y install docker-ce docker-ce-cli
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  containerd.io docker-buildx-plugin docker-ce-rootless-extras docker-compose-plugin libslirp0 pigz slirp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
The following NEW packages will be installed:
  containerd.io docker-buildx-plugin docker-ce docker-ce-cli docker-ce-rootless-extras docker-compose-plugin libslirp0 pigz
  slirp4netns
0 upgraded, 9 newly installed, 0 to remove and 3 not upgraded.
Need to get 124 MB of archives.
After this operation, 447 MB of additional disk space will be used.
Get:1 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io amd64 1.7.25-1 [29.6 MB]
Get:2 http://jp.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:3 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-buildx-plugin amd64 0.19.3-1~ubuntu.24.04~noble [30.7 MB]
Get:4 http://jp.archive.ubuntu.com/ubuntu noble/main amd64 libslirp0 amd64 4.7.0-1ubuntu3 [63.8 kB]
Get:5 http://jp.archive.ubuntu.com/ubuntu noble/universe amd64 slirp4netns amd64 1.2.1-1build2 [34.9 kB]
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cli amd64 5:27.5.0-1~ubuntu.24.04~noble [15.2 MB]
Get:7 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:27.5.0-1~ubuntu.24.04~noble [26.1 MB]
Get:8 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-rootless-extras amd64 5:27.5.0-1~ubuntu.24.04~noble [9,589 kB]
```

```
root@ubuntuServer24: /home/k896951
Setting up docker-compose-plugin (2.32.4-1~ubuntu.24.04~noble) ...
Setting up docker-ce-cli (5:27.5.0-1~ubuntu.24.04~noble) ...
Setting up libslirp0:amd64 (4.7.0-1ubuntu3) ...
Setting up pigz (2.8-1) ...
Setting up docker-ce-rootless-extras (5:27.5.0-1~ubuntu.24.04~noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:27.5.0-1~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.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ubuntuServer24: /home/k896951#
```

バージョン確認のコマンド `docker -version` を実行する。

```
docker --version
```

```
root@ubuntuServer24: /home/k896951# docker --version
Docker version 27.5.0, build a187fa5
root@ubuntuServer24: /home/k896951#
```

ubuntu, docker

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