Setup Docker/Docker Compose

- Docker Prep/Prerequisites (Debian)
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Docker Prep/Prerequisites (Debian)

This guide assumes you are running a Debian based OS. So, it will work regardless of whether you are using Proxmox, OMV, Ubuntu Server, Linux Mint or anything else that uses APT. If you are using some flavor of Arch, Fedora, FreeBSD or any of their derivatives, you'll have to use their version of these commands. For example, Arch uses AUR. I don't know what the others use. I might change the guide to support other OSs, if I feel energetic enough.

Do note that you may want/need to alter the process quite a bit for stuff like Proxmox and OMV, since they use a GUI that is very different from a normal desktop/server distro like Mint or Ubuntu Server. For example, you'll probably want to use a Docker LXC under Proxmox, rather than running Docker directly on the host OS. For OMV, you'll have to decide whether to install everything directly from the command line (as this guide covers) or to install it from OMV-extras. I do cover how to install OMV-extras in the OMV Setup guide. If you need to access the command line in OMV, there are two ways. One way is to remote connect with SSH and the other is to install a plugin called WeTTY, which is also requires OMV-extras but the OMV Setup guide covers this too.

Install prerequisites:

```
sudo apt update
sudo apt install apt-transport-https ca-certificates curl gnupg
```

Add Docker's Official GPG Key: `curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker.gpg`

Add Docker Repo: `echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu jammy stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null`

Refresh package list again: `sudo apt update`

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The actual setup is fairly easy. However, you have to do some prep work first.

You can skip using sudo and entering your password over and over with: `sudo -i`

Install docker:

Debian: `sudo apt install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin`
Arch: `sudo pacman -Syu docker docker-compose containerd`

Optional: Enable and Start the Docker Service: `sudo systemctl enable --now docker`
If it gives an error, you probably need to reboot.

Verify: `sudo systemctl is-active docker`

Add your user to Docker group: `sudo usermod -aG docker ${USER}`

Reboot server for permissions to take effect or run this command: `newgrp docker`

Verify docker access with one of these:

`docker ps`
`docker compose version`

References:

https://www.reddit.com/r/portainer/comments/lykvxb/export_your_docker_containers_to_a_docker/

https://github.com/Red5d/docker-autocompose

https://linuxiac.com/how-to-install-docker-on-linux-mint-21/

https://docs.docker.com/engine/install/