

Setup of Docsify using podman

Step:1 Open Terminal in Ubuntu by pressing **Ctrl+alt+t** button combinations.

```
Ctrl+Alt+t
```

Step :2

```
sudo apt update
```

sudo apt update command is used in Debian-based Linux distributions, such as Ubuntu, to update the package repository information on your system.

```
sudo apt upgrade
```

sudo apt upgrade command is used in Linux-based operating systems, such as Ubuntu, to update the installed packages on your system to their latest versions.

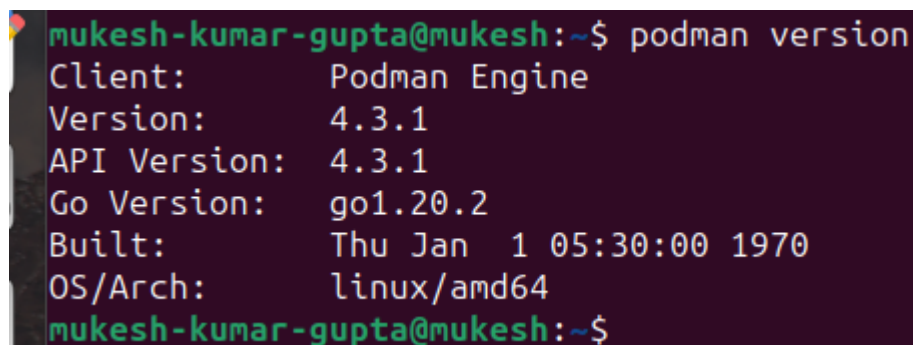
Step :3

```
sudo apt install podman
```

sudo apt install podman is used to install the Podman container management tool on a Debian-based Linux system using the Advanced Package Tool (APT).

Step :4

```
podman version
```

A terminal window with a dark purple background. The prompt is 'mukesh-kumar-gupta@mukesh:~\$'. The command 'podman version' has been executed, and the output is displayed in a light green monospace font. The output shows the client and engine version as 4.3.1, API version as 4.3.1, Go version as go1.20.2, and the build date as Thu Jan 1 05:30:00 1970. The OS/architecture is linux/amd64.

```
mukesh-kumar-gupta@mukesh:~$ podman version
Client:           Podman Engine
Version:          4.3.1
API Version:      4.3.1
Go Version:       go1.20.2
Built:            Thu Jan  1 05:30:00 1970
OS/Arch:          linux/amd64
mukesh-kumar-gupta@mukesh:~$
```

Step:5

```
systemctl status podman
```

systemctl status podman command is used to check the status of the Podman service on a Linux system.

```
podman restart service
mukesh-kumar-gupta@mukesh:~$ systemctl status podman.service
○ podman.service - Podman API Service
   Loaded: loaded (/lib/systemd/system/podman.service; enabled; preset: enabled)
   Active: inactive (dead) since Mon 2023-09-18 09:53:17 IST; 5h 15min ago
     Duration: 21.123s
   TriggeredBy: ● podman.socket
        Docs: man:podman-system-service(1)
   Process: 880 ExecStart=/usr/bin/podman $LOGGING system service (code=exited, status=0/SUCCESS)
    Main PID: 880 (code=exited, status=0/SUCCESS)
       CPU: 329ms

Sep 18 09:52:56 mukesh systemd[1]: Starting podman.service - Podman API Service.
Sep 18 09:52:56 mukesh systemd[1]: Started podman.service - Podman API Service.
Sep 18 09:53:04 mukesh podman[880]: time="2023-09-18T09:53:04+05:30" level=info>
Sep 18 09:53:09 mukesh podman[880]: time="2023-09-18T09:53:09+05:30" level=info>
Sep 18 09:53:12 mukesh podman[880]: 2023-09-18 09:53:12.321786291 +0530 IST m=+>
Sep 18 09:53:12 mukesh podman[880]: time="2023-09-18T09:53:12+05:30" level=info>
Sep 18 09:53:12 mukesh podman[880]: time="2023-09-18T09:53:12+05:30" level=info>
Sep 18 09:53:12 mukesh podman[880]: time="2023-09-18T09:53:12+05:30" level=info>
Sep 18 09:53:17 mukesh systemd[1]: podman.service: Deactivated successfully.
mukesh-kumar-gupta@mukesh:~$ podman version
```

Step:6

```
mkdir docs
```

```
demo-app docstry docstry-template Downloads mks
mukesh-kumar-gupta@mukesh:~$ mkdir docs
mukesh-kumar-gupta@mukesh:~$ cd docs
```

Step:7

```
cd docs
```

```
mukesh-kumar-gupta@mukesh:~$ cd docs
mukesh-kumar-gupta@mukesh:~/docs$ touch README.md
```

Step:8

Command for Create File.

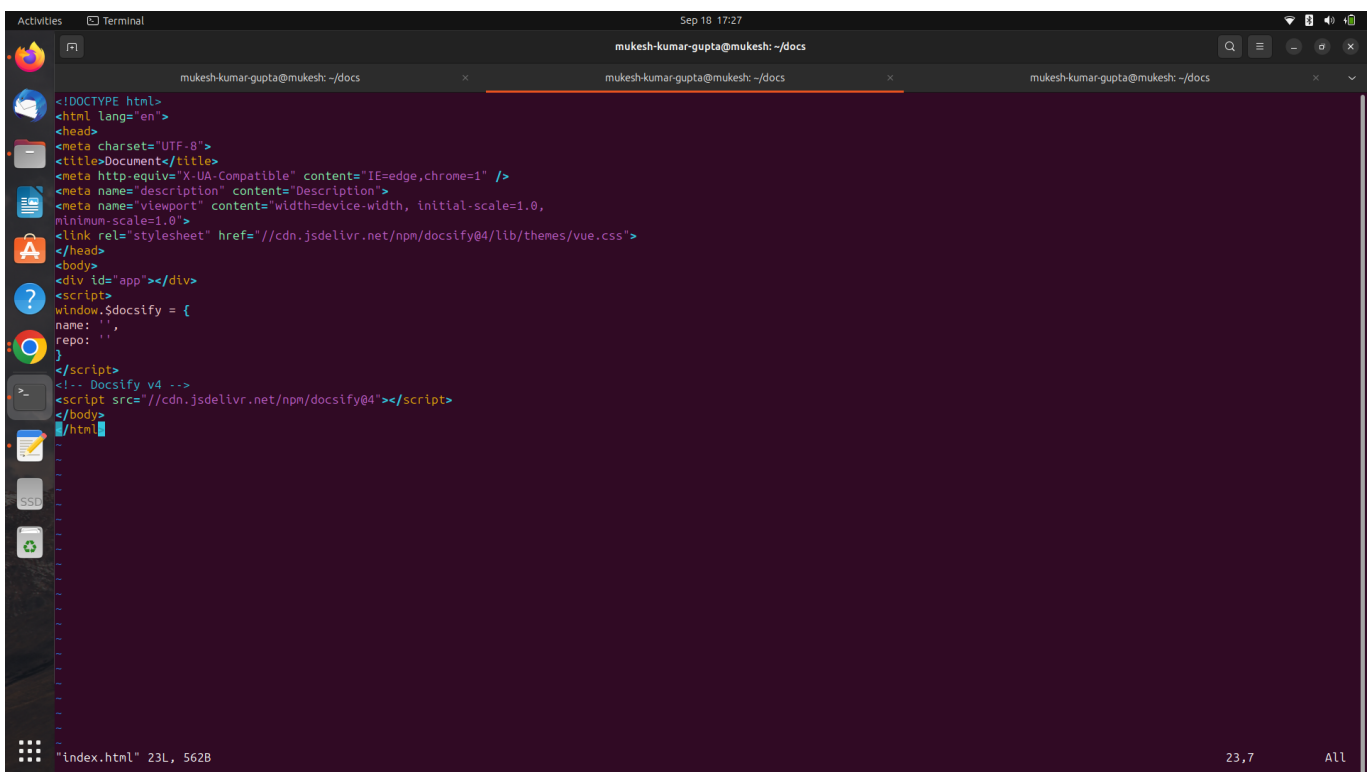
```
touch README.md
touch index.html
touch Dockerfile
```

```
mukesh-kumar-gupta@mukesh:~/docs$ touch README.md
mukesh-kumar-gupta@mukesh:~/docs$ ls
README.md
mukesh-kumar-gupta@mukesh:~/docs$
mukesh-kumar-gupta@mukesh:~/docs$ touch index.html
mukesh-kumar-gupta@mukesh:~/docs$ ls
index.html  README.md
mukesh-kumar-gupta@mukesh:~/docs$ touch Dockerfile
mukesh-kumar-gupta@mukesh:~/docs$
mukesh-kumar-gupta@mukesh:~/docs$
mukesh-kumar-gupta@mukesh:~/docs$ ls
Dockerfile  index.html  README.md
mukesh-kumar-gupta@mukesh:~/docs$
mukesh-kumar-gupta@mukesh:~/docs$
```

Step:9

```
vim index.html
```

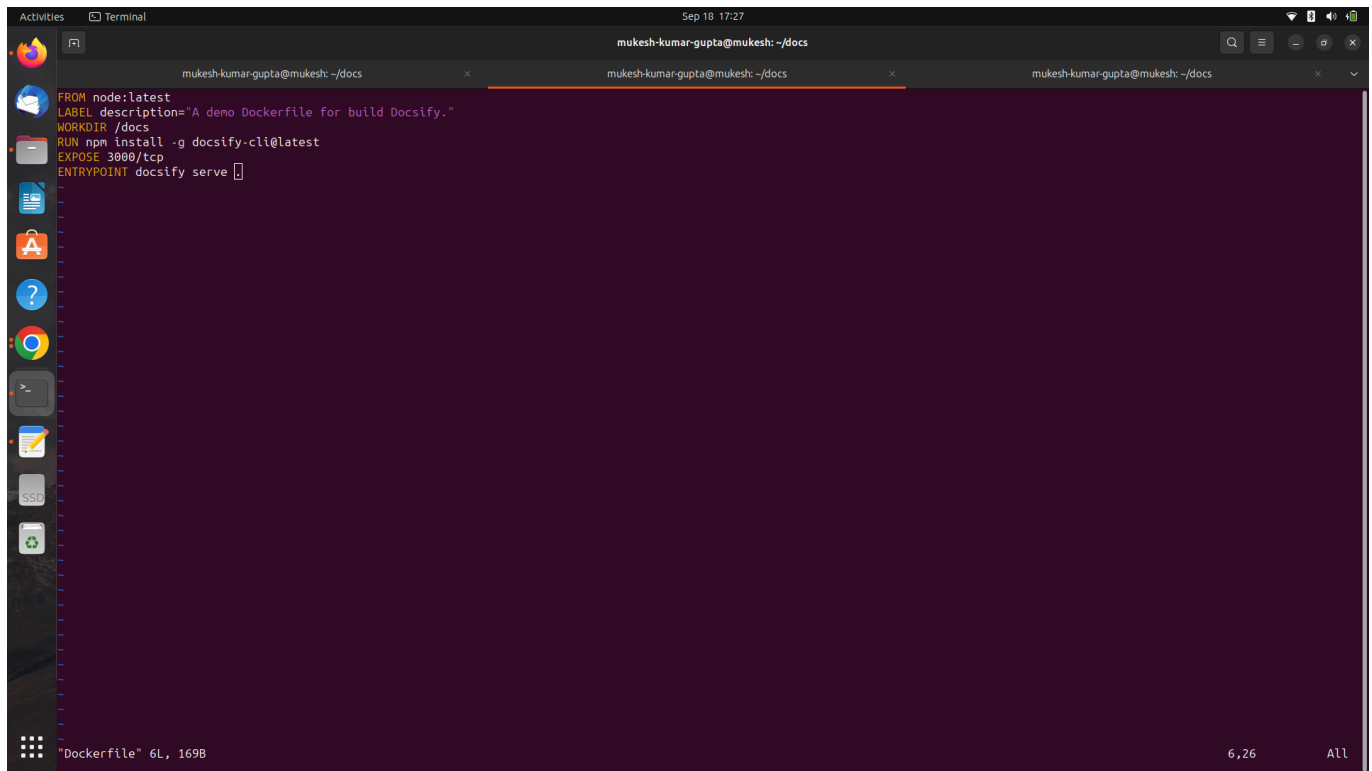
vim index.html is used to open or edit a file named index.html using the Vim text editor.



Step:10

```
vim Dockerfile
```

vim Dockerfile command is a way to open a file named Dockerfile for editing using the Vim text editor.

A screenshot of a Linux terminal window. The terminal title bar shows 'Sep 18 17:27' and 'mukesh-kumar-gupta@mukesh: ~/docs'. The terminal content shows a Dockerfile with the following lines: FROM node:latest, LABEL description="A demo Dockerfile for build Docsify.", WORKDIR /docs, RUN npm install -g docsify-cli@latest, EXPOSE 3000/tcp, and ENTRYPOINT docsify serve. The terminal has a dark purple background and a light blue cursor. The left sidebar shows various application icons, and the bottom status bar indicates '6,26' and 'All'.

Step:11

```
podman build -f Dockerfile -t docsify/demo images.
```

podman build -f Dockerfile -t docsify/demo images is used to build a container image using Podman. Let's break down the command

```

mukesh-kumar-gupta@mukesh:~/docs$ podman build -f Dockerfile -t docsify/demo .
STEP 1/6: FROM node:latest
Resolved "node" as an alias (/etc/containers/registries.conf.d/shortnames.conf)
Trying to pull docker.io/library/node:latest...
Getting image source signatures
Copying blob 2138282ff175 done
Copying blob 00046d1e755e done
Copying blob 012c0b3e998c done
Copying blob 95103e803d28 done
Copying blob e13e76ad6279 done
Copying blob 9f13f5a53d11 done
Copying blob 4f9fde731574 done
Copying blob 562365e2a70f done
Copying config af422ffafa done
Writing manifest to image destination
Storing signatures
STEP 2/6: LABEL description="A demo Dockerfile for build Docsify."
--> 028e5637e88
STEP 3/6: WORKDIR /docs
--> cd2e1d3af0a
STEP 4/6: RUN npm install -g docsify-cli@latest

added 204 packages in 13s

16 packages are looking for funding
  run `npm fund` for details
npm notice
npm notice New major version of npm available! 9.8.1 -> 10.1.0
npm notice Changelog: <https://github.com/npm/cli/releases/tag/v10.1.0>
npm notice Run `npm install -g npm@10.1.0` to update!
npm notice
--> 754e5696ee5
STEP 5/6: EXPOSE 3000/tcp
--> e165c3ed93f
STEP 6/6: ENTRYPOINT docsify serve .
COMMIT docsify/demo
--> 18d3c593629
Successfully tagged localhost/docsify/demo:latest
18d3c59362969bedf8d19bf68ff9b9c8203cf2bd07bcabc26a22fcef126fdeae

```

podman build This is the command for building container images using Podman,

-f Dockerfile This flag specifies the name of the Dockerfile to use for building the image. The Dockerfile is a script that contains a series of instructions to define the image. In this case, it's named Dockerfile.

-t docsify/demo flag names the image as docsify/demo, where "docsify" is the repository name and "demo" is the tag.

images: This is the context directory or build context. It specifies the location where the build process will look for the necessary files to build the image.

Step:12

```
podman images
```

podman images is used to list the container images that are available on your system when using Podman.

```
mukesh-kumar-gupta@mukesh:~/docs$ podman images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
localhost/docsify/demo  latest      18d3c5936296  30 minutes ago  1.15 GB
localhost/podman-pause  4.3.1-0     69192d11b64b  About an hour ago  835 kB
docker.io/library/node  latest      af422ffafa37  6 days ago     1.12 GB
mukesh-kumar-gupta@mukesh:~/docs$
mukesh-kumar-gupta@mukesh:~/docs$
```

Step:13

```
podman run -itp 3001:3000 --name-docsify -v /home/mukesh-kumar-gupta/docs:/docs docsify demo
```

podman run -itp 3001:3000 --name-docsify -v /home/mukesh-kumar-gupta/docs:/docs docsify demo, is used to run a containerized instance of Docsify, which is a lightweight documentation generator.

```
mukesh-kumar-gupta@mukesh:~/docs$
mukesh-kumar-gupta@mukesh:~/docs$
mukesh-kumar-gupta@mukesh:~/docs$ podman run -itp 3001:3000 --name=docsify1 -v /home/mukesh-kumar-gupta/docs:/docs docsify/demo
Serving /docs now.
Listening at http://localhost:3000
□
```

podman run: This is the command to run a container using Podman, which is a container management tool similar to Docker.

-itp 3001:3000 These are flags used to specify options for running the container:

-i Keep STDIN open even if not attached. This allows you to interact with the container's console if needed.

-t Allocate a pseudo-TTY. This simulates a terminal device for the container.

-p 3001:3000: This maps port 3000 from the container to port 3001 on the host. This allows you to access the Docsify application running inside the container using <http://localhost:3001>.

--name-docsify This gives a name (docsify) to the running container, allowing you to easily refer to it in the future.

-v /home/mukesh-kumar-gupta/docs:/docs This mounts the directory /home/mukesh-kumar-gupta/docs on the host to /docs inside the container. This is a way to share files or data between the host and the container. In this case, it's likely that the directory contains the documentation files that Docsify will use to generate the documentation site.

docsify demo This is the command that will be executed inside the container. docsify demo starts a local server to preview the documentation site.

Step:14

```
podman ps
```

podman ps command is used in Linux-based systems to display information about running containers and pods managed by Podman.

```
mukesh-kumar-gupta@mukesh:~/docs$ podman ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
fbc05e6eec90   localhost/docsify/demo:latest      docsify                 20 minutes ago Up 20 minutes ago 0.0.0.0:3001->3000/tcp docsify1
mukesh-kumar-gupta@mukesh:~/docs$
```

Step:15

Run the docsify on browser.

http://localhost:3001:3000

