

# Docsify setup in podman and integrate with github

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## Requirement of docsify setup:

Docsify is a lightweight, flexible, and easy-to-set-up documentation generator that can turn your Markdown documentation into a website.

## Linux distribution:

- Distributor ID: Ubuntu
- Description: Ubuntu 20.04.6 LTS
- Release: 20.04
- Codename: focal

## Prerequisites tools:

- Podman
- Github

### Podman

Podman is a tool that helps you run and manage software packages called containers on your computer.

### Github

GitHub is an online software development platform. It's used for storing, tracking, and collaborating on software projects.

Now start a setup by following these steps:

## Step-1:- Install podman

First update and upgrade by using this command :

```
sudo apt update  
sudo apt upgrade
```

Then use podman installation command:

```
sudo apt install -y podman
```

- **sudo** : Superuser do
- **apt** : This stands for "Advanced Package Tool. apt is used to install, update, and manage software packages on your sysytem.

- **-y** : Automatically confirms the installation without asking for user input.
- **podman** : It is the name of the package you want to install.

## Step-2:- Create directory.

```
mkdir docs
```

- **mkdir** : This command use for making a new directory
- **docs** : Name of new directory.

## Step-3:- Create Dockerfile

```
vim Dockerfile
```

- **vim** : Use for create and edit a file.
- **Dockerfile** : Name of file.

Add details in Dockerfile:

```
FROM node:latest
LABEL description="A demo Dockerfile for build Docsify."
WORKDIR /docs
RUN npm install -g docsify-cli@latest
EXPOSE 3000/tcp
ENTRYPOINT docsify serve .
```

## Step-4:-Create index.html

```
vim index.html
```

Add details in html file:

```
<!-- index.html -->

<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <meta charset="UTF-8" />
    <link
```

```
    rel="stylesheet"
    href="//cdn.jsdelivr.net/npm/docsify@4/themes/vue.css"
  />
</head>
<body>
  <div id="app"></div>
  <script>
    window.$docsify = {
      //...
    };
  </script>
  <script src="//cdn.jsdelivr.net/npm/docsify@4"></script>
</body>
</html>
```

## Step-5:- Create new file in md format

```
touch README.md
```

- **touch** : Use for creating new file.

Here we can check all files by using this command:

- **ls** : It is a Linux shell command that lists directory contents of files and directories.

```
ritu@ritupal:~/Desktop/docs$ ls
Dockerfile  index.html  README.md
```

## Step-6:- Build docker image

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

- **podman build** : Initiating the container image building process means starting the procedure to create a new container image.
- **-f** : It stands for file.
- **Dockerfile** : It specifies the name of the Dockerfile that should be used for the container image build.
- **-t** : It stands for tag.
- **docsify** : This is the name for the image.
- **/** : It uses for path separator in file and directory path.
- **demo** : This is the tag for the image.

This command is used to manage container images in Podman.

```
ritu@ritupal:~/Desktop/docs$ podman images
REPOSITORY          TAG          IMAGE ID      CREATED      SIZE
localhost/docsify/demo latest       5ef647dc27ef  3 days ago  1.15 GB
docker.io/library/node latest       341640cdfda9  12 days ago  1.12 GB
```

## Step-7:-Run podman

Create a podman container for docsify.

```
podman run -d -p 3000:3000 -v /home/ritu/Desktop/docs:/docs
localhost/docsify/demo
```

This command will run a container based on the docsify/demo image.

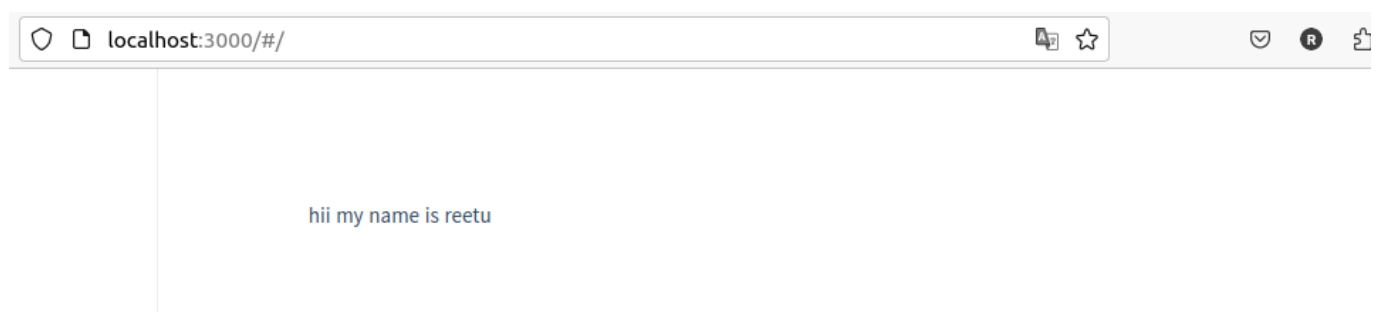
- **Podman run** : It is used to run a container from the docsify/demo image.
- **-d (detach mode)**: It allows the container to run in the background. It's useful for users who don't want to see the container's output in the terminal.
- **-p (port forwarding)**: It enables port forwarding between the container and the host system.
- **-v** : It indicates volume mounted from your host's into the container

```
podman ps -a
```

This command is used to see all containers on your system, both running and stopped.

```
ritu@ritupal:~/Desktop/docs$ podman ps -a
CONTAINER ID   IMAGE                      COMMAND                  CREATED        STATUS        PORTS                    NAMES
2b93d95e276f   localhost/docsify/demo:latest  /bin/sh -c 'sleep 1; echo hii my name is reetu'  19 hours ago  Up 19 hours ago  0.0.0.0:3000->3000/tcp  docsify
```

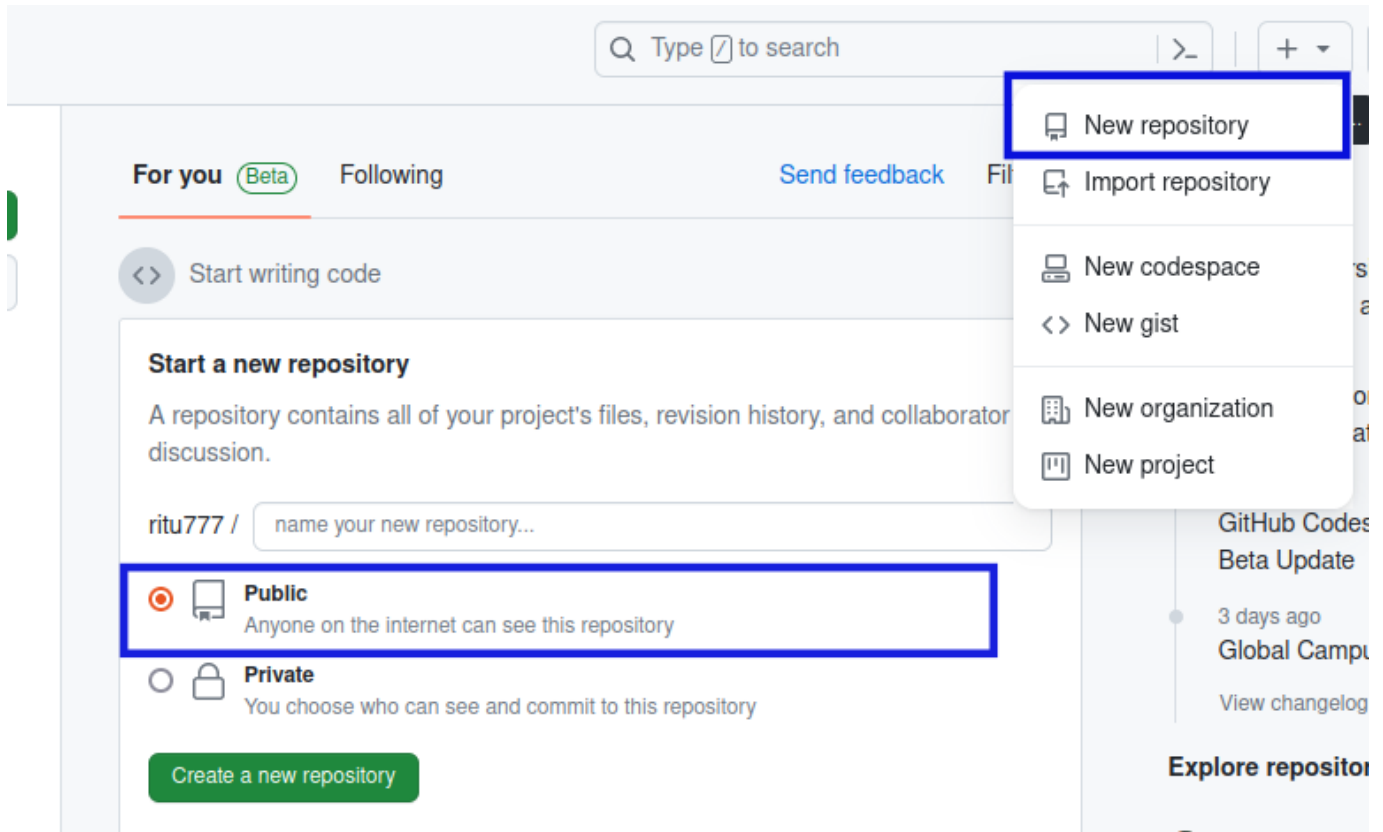
## Step-8:- Preview Output



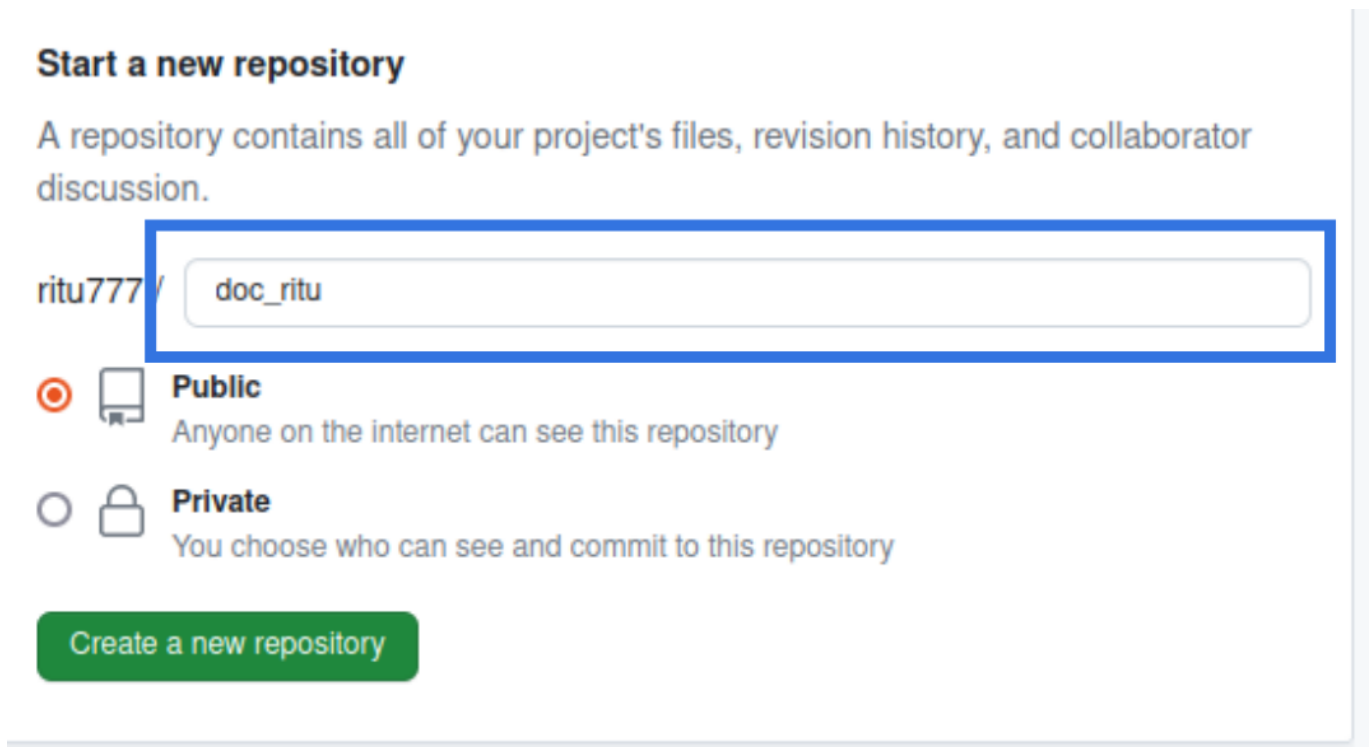
## Github

### Step-1:-Create repository

Make a new repository with public account.



Give a name to new repository.



After entering the name, It will show like this:



Get started by creating a new file or uploading an existing file. We recommend every repository include a `README`, `LICENSE`, and `.gitignore`.

### ...or create a new repository on the command line

```
echo "# Docsify.io" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M master
git remote add origin https://github.com/ritu777/Docsify.io.git
git push -u origin master
```

### ...or push an existing repository from the command line

```
git remote add origin https://github.com/ritu777/Docsify.io.git
git branch -M master
git push -u origin master
```

### ...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

[Import code](#)

## Step-2:-Clone the repository

```
git clone https://github.com/ritu777/Docsify.io
```

```
ritu@ritupal:~/Desktop/docs$ git clone https://github.com/ritu777/Docsify.io
Cloning into 'Docsify.io'...
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 5 (delta 0), reused 5 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 753 bytes | 251.00 KiB/s, done.
```

- **git clone** : It is the Git command used to create a copy of a Git repository.
- **https://github.com/ritu777/Docsify.io** : It is the URL of the remote Git repository you want to clone.

## Step-3:- Integrate with Github

By following these commands:

```
git init

git add .

git commit -m "first commit"

git branch -M master

git remote add origin https://github.com/ritu777/...p.git

git push -u origin master
```

```
ritu@ritupal:~/Desktop/docs$ git init
Initialized empty Git repository in /home/ritu/Desktop/docs/.git/
```

- **git init** : This command is used to initialize a new git repository in a directory.

```
ritu@ritupal:~/Desktop/docs$ git add .
ritu@ritupal:~/Desktop/docs$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Dockerfile
        new file:   README.md
        new file:   index.html
```

- **git add .** : Any modifications you've made to files, any new files you've created, or any file deletions you've performed within the current directory and its subdirectories will be staged and ready for the next commit.

```
ritu@ritupal:~/Desktop/docs$ git commit -m "first commit"
[master (root-commit) 231e7cd] first commit
 3 files changed, 31 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 README.md
 create mode 100644 index.html
```

### git commit -m "first commit"

- **git commit** : This is the core Git command for creating a new commit.
- **-m** : It stands for message.
- **"first commit"** : This is the actual commit message you provide. It should be enclosed in double or single quotes.

```
ritu@ritupal:~/Desktop/docs$ git branch -M master
ritu@ritupal:~/Desktop/docs$
ritu@ritupal:~/Desktop/docs$
ritu@ritupal:~/Desktop/docs$
ritu@ritupal:~/Desktop/docs$ git remote add origin https://github.com/ritu777/Docsify.io.git
ritu@ritupal:~/Desktop/docs$
ritu@ritupal:~/Desktop/docs$
ritu@ritupal:~/Desktop/docs$ git push -u origin master
Username for 'https://github.com': reetu.x.pal@fosteringlinux.com
Password for 'https://reetu.x.pal@fosteringlinux.com@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 773 bytes | 193.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0)
To https://github.com/ritu777/Docsify.io.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

### git branch -M master

- **git branch** : This is the Git command for working with branches.
- **-M** : It stands for "move" or "rename", When used with git branch, it renames the current branch to the specified name.
- **master** : It is the new name you're assigning to the current branch.

**git remote add origin https://github.com/ritu777/...p.git**

- **git remote add** : It is the Git command used to add a repository.
- **origin** : It is the default name used by Git when you clone a repository.
- **https://github.com/ritu777/...p.git** - It is the URL of the remote Git repository you want to add as a remote.

### **git push -u origin master**

- **git push** : It is the command for pushing your local changes to a remote repository.
- **-u** : It stands for "set upstream", When we use -u with git push.

It establishes a tracking relationship between your local branch (in this case, "master") and the corresponding branch on the remote repository.

- **origin** : Name of the remote repository.
- **master** : It is the name of the local branch you want to push to the remote repository.