

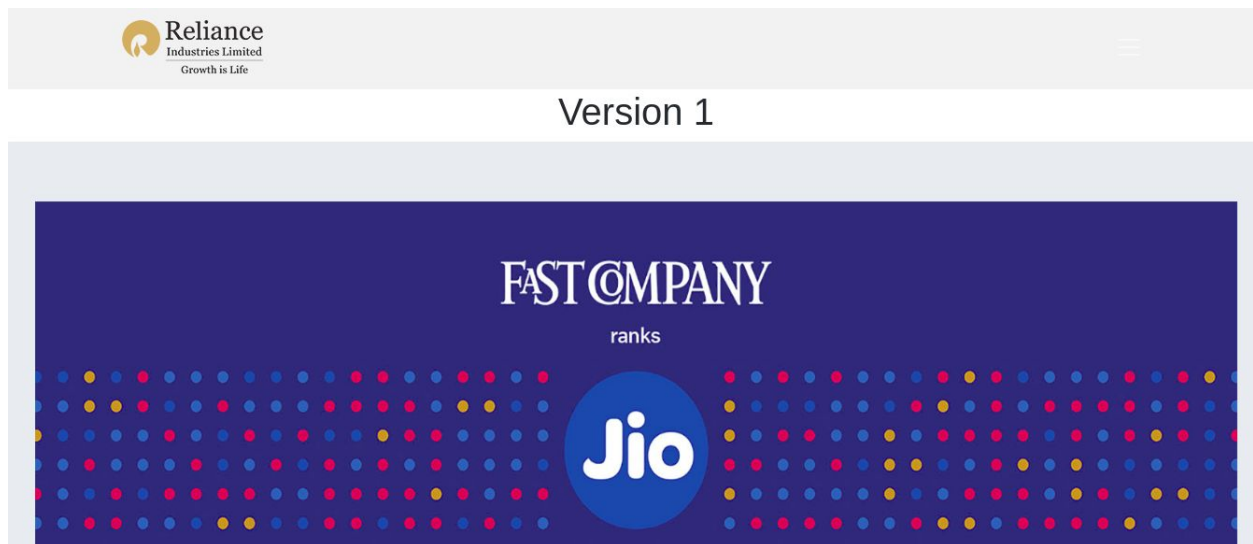
Using Docker Commit to Create and Change an Image

We will do this using the docker commit command.

First we need an image to

```
$ docker pull asyed755/ril:v1 # pull the docker image from the docker hub that we will modify
$ docker images # to list the docker images in the local repo
$ docker run -d -p 80:80 asyed755/ril:v1 -t <your-app-name> # to create a container from the image
$ docker ps # to list the running containers
```

Try to browse the IP-addr of your instance to review the changes.



Now, before we proceed we need to login to our docker hub account so that we can push the changes to our docker hub account.

```
$ docker login ( login to the Docker Hub account)
Export your DockerHub user ID as $ echo $DOCKER_ID_USER
$ export DOCKER_ID_USER=<Your DockerHub UserID>
$ echo $DOCKER_ID_USER
```

Now, login to the running container to modify the index.html file.

```
$ docker ps # to get the docker container id
```

```

arshad@arshad-Latitude-E6330: ~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
3403485ec617   asyed755/ril.v1  "nginx -g 'daemon of..." 16 minutes ago Up 16 minutes  0.0.0.0:80->80/tcp  cranky_edison
arshad@arshad-Latitude-E6330: ~$

```

\$ docker exec -it 34034 /bin/bash # 34034 is the container ID, it is not necessary the type the whole ID

root@3403485ec617:/# “This is the docker container shell”

root@3403485ec617:/# vim /data/www/index.html ##edit the index.html file

Once you are into the vim editor do

:set number # to set number for each line.

Now, edit the line no. 75 and again do ##### You can add your name instead of Loves cloud V1

:wq (to exit the vim editor)

```

58         </ul>
59     </div>
60 </div>
61 </div>
62 </div>
63 <div class="navbar navbar-dark bg-dark box-shadow" style=" background-color:#f2f2f2!important;">
64     <div class="container d-flex justify-content-between">
65         <a href="#" class="navbar-brand d-flex align-items-center">
66             
67         </a>
68         <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarHeader" aria-controls="navbarHeader" aria-expanded="false" aria-label="Toggle navigation">
69             <span class="navbar-toggler-icon"></span>
70         </button>
71     </div>
72 </div>
73 </div>
74 </header>
75 <div align="center"> <h1> LOVES CLOUD Version 1 </h1></div>
76 <main role="main">
77
78     <section class="jumbotron text-center">
79         <div class="container banner-nissan" >
80
81
82     </div>
83 </section>
84
85
86 <div class="album py-5 bg-light">
87     <div class="container">
88
89         <div class="row">
90             <div class="col-md-4">
91                 <div class="card mb-4 box-shadow">
92                     
93                     <div class="card-body">

```

root@3403485ec617:/# exit # to exit the container gracefully

Now, again try to browse the IP-addr of your instance to review the changes.



Once the changes are reviewed, we can commit these changes to the docker image and push to Docker hub account with a specific tag.

Tag the Image appropriately

`$ docker tag <image name or Image id> $DOCKER_ID_USER/<repo_name> :<tag_name if required or pushing to an existing repo> (this can be anything)`

Example `$ docker commit 3403485ec617 asyed755/ril:v3` **#committing changes to a new tag & replace asyed755 with your docker hub username**

`$ docker images`

```
arshad@arshad-Latitude-E6330 ~$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
3403485ec617       asyed755/ril:v1    "nginx -g 'daemon of..." 30 minutes ago      Up 30 minutes      0.0.0.0:80->80
arshad@arshad-Latitude-E6330 ~$ docker images
REPOSITORY          TAG                 IMAGE ID
asyed755/ril        v3                 388d3cf7913c
asyed755/ril        v1                 af44dc2a2c30
asyed755/composetest_frontend    v1                 55f6b36f03c1
```

We can see that a new image has been created with tag v3.

Now, we can push this to your docker hub account.

`$ docker push $DOCKER_ID_USER/<tag_name>`

Example

`$ docker push asyed755/ril:v3` **# pushing the fs layer to the docker hub account with v3 tag**

Note : These image will be used in the later Kubernetes labs.

DIY

Please create a v2 of this image by editing the docker container index.html file from v1 to v2 and push it to your docker hub account with v2 tag.

You will pull the version v1 and v2 in the upcoming labs from your docker hub account.