

Suraksha Vyuha: Installing the Docker Image

The steps in this document are for running the surakshavyuha docker container. And are to be used in conjunction with the main SurakshaVyuha User Manual.

Creating docker container

1. Run the following command to import the surakshavyuha archive as an docker image:
`cat svbaseimage.tar | sudo docker import - surakshav-container`
Execution time : Around 20 minutes
Now we have a docker image containing the surakshavyuha complete product.
surakshav-container is the name of the docker image which when run through docker will start a container.

Running docker and opening 2 terminals of the **surakshav-container**

1. Now run a shell of the above docker container by the docker shell command:
`sudo docker run -it surakshav-container /bin/bash`

2. Open another shell of the same docker container, by running the command :

```
sudo docker ps
```

From the output which is as follows, Acquire the docker-container-id.
CONTAINER ID IMAGECOMMAND CREATED STATUS PORTS NAMES
523b1a8e352e surakshav-container "/bin/bash" 4 minutes ago Up 4 minutes sample_name

```
<docker_container_id> :523b1a8e352e
```

3. Open another shell of the above docker container:
`sudo docker exec -it <docker_container_id>/bin/bash`

Now there are 2 terminals of the above docker container to execute 2 programs for surakshavyuha.

Procuring and Applying license

The license is generated using the MAC address and interface id.

1. Steps to acquire the MAC address and interface id.
 1. Execute the **ifconfig** command from any of the 2 opened terminals.

From the output which looks as follows, acquire the **interface id, MAC Address and ip address**.

```
root@523b1a8e352e:/# ifconfig  
eth0 Link encap:Ethernet HWaddr02:42:ac:11:00:02  
inet addr:172.17.0.2 Bcast:172.17.255.255 Mask:255.255.0.0  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)  
Interrupt:16 Memory:dc200000-dc220000
```

IP Address of the container : **172.17.0.2** (Used while using the web page of surakshavyuha)

MAC Address of the container : **02:42:ac:11:00:02** (Used to generate a license file)
interface id of the container : **eth0** (Used to generate the license file)

2. Please contact for acquiring the license.
Only the following information has to be shared:
 1. MAC Address
 2. Interface id
3. The license will be provided inside a file.
Copy the license file to /home/sv-admin/license/ folder inside the docker container, by running the following command on the host OS.
NOT IN ANY OF THE CONTAINER TERMINALS.
`sudo docker cp <license.file> <docker_container_id>:/home/sv-admin/license/license.file`
Example : `sudo docker cp license.file 523b1a8e352e:/home/sv-admin/license/license.file`

Running SurakshaVyuha

1. Inside both the container terminals, change the user from root to **sv-admin** using the command `su - sv-admin`
The password for sv-admin is : **ncetis*SV1**
2. On the first terminal run the following commands:
 1. Go to /home/sv-admin/ folder using the command:
`cd /home/sv-admin/`
 2. Execute the script to initiate the mongod by running the command:
`./mongo_repair_script.sh`
 3. Go to /home/sv-admin/surakshavyuha/surakshavyuha-adapter/build/ folder using the command :
`cd /home/sv-admin/surakshavyuha/surakshavyuha-adapter/build/`
 4. Execute the command :
`./surakshavyuha-adapter 5010`
3. Wait for **around a minute** and On the second terminal run the following commands on another terminal :
 1. Go to /home/sv-admin/surakshavyuha/surakshavyuha-webapp/ folder using the command:
`cd /home/sv-admin/surakshavyuha/surakshavyuha-webapp/`
 2. Execute the command :
`yarn start`
4. Now on the web browser of the **HOST** machine, open the URL :
`http://<docker_container_ip_address>:/localhost`
Example : `http://172.17.0.2:4000`
Login using admin/admin
Voila !!!!