**Docker Swarm service**

\*Docker swarm is an orchestration service within docker that allows us to manage and handle multilple containers at the same time

\*it is used to manage the containers on multiple servers

\*docker engine helps to create docker swarm

\*thera are mainly worker nodes and manager nodes

\*the worker nodes are connected to the manager nodes

\*each worker node work on individual service fro better performance

\*mangaer nodes are used to devide the work among the workers nodes

**Setup;**

Create 3 node one is manager and 2 are wokers manager nodes

Manager node named as server

Worker nodes are named as slve 1 and 2

**CONNECT TO SERVER**

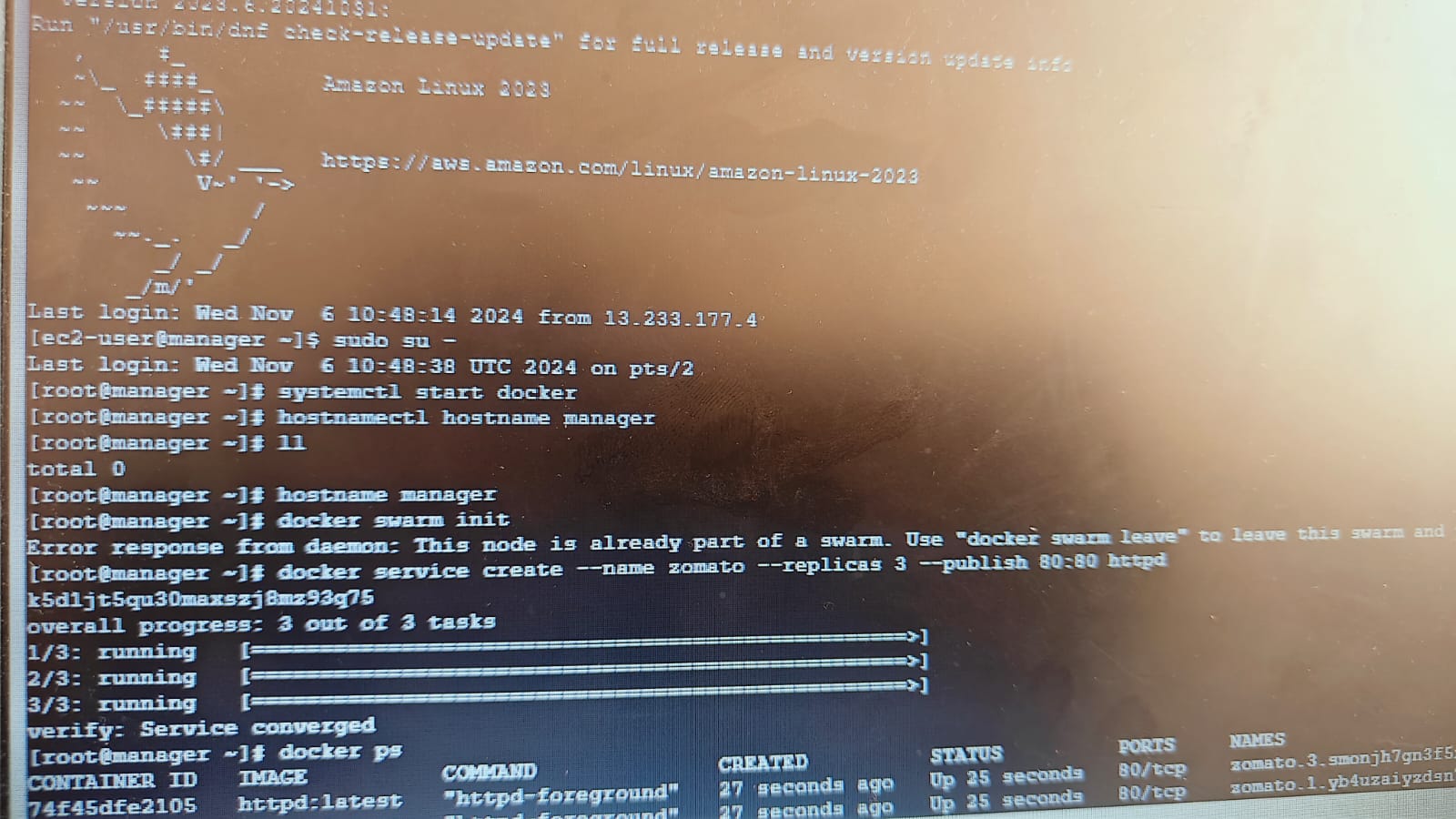
\*yum install docker –y

\*systemctl docker –y

\*Hostnamectl hostname manager

\*ll

\*hostname manager



**GOTO SLAVE 2**

* ALLOW ALLTRAFFIC

**GO TO SERVER**

* **Docker swarm init**

**GO TO SLAVE 1**

* **SUDO SU –**
* **Yum install docker –y**
* **Systemctl start docker**

**GO TO SLAVE 2**

* **ADD TRAFFIC**

**GO TO SLAVE1**

* **Systemctl start docker**
* **Paste swarm link from server**

**CONNECT SLAVE2**

* **Sudo su –**
* **Yum install docker –y**
* **Systemctl docker**

**GO TO SERVER**

* **Docker service –name zomato**
* **Docker service create –name zomato –replicas 3 –publish 80:80 httpd**
* **Docker ps**

**GO TO SLAVE2**

* **Docker ps**

**GO TO SLAVE1**

* **Docker ps**

**GO TO SERVER**

* **Docker service –name swiggy –replicas 4 –publish 81:80 httpd**
* **Docker ps**

**GO TO SLAVE2 AND SLAVE 1**

* **Docker ps (ceck containers)**

**GO TO SERVER**

* **Docker service create –name**

**GO TTO SLAVE1**

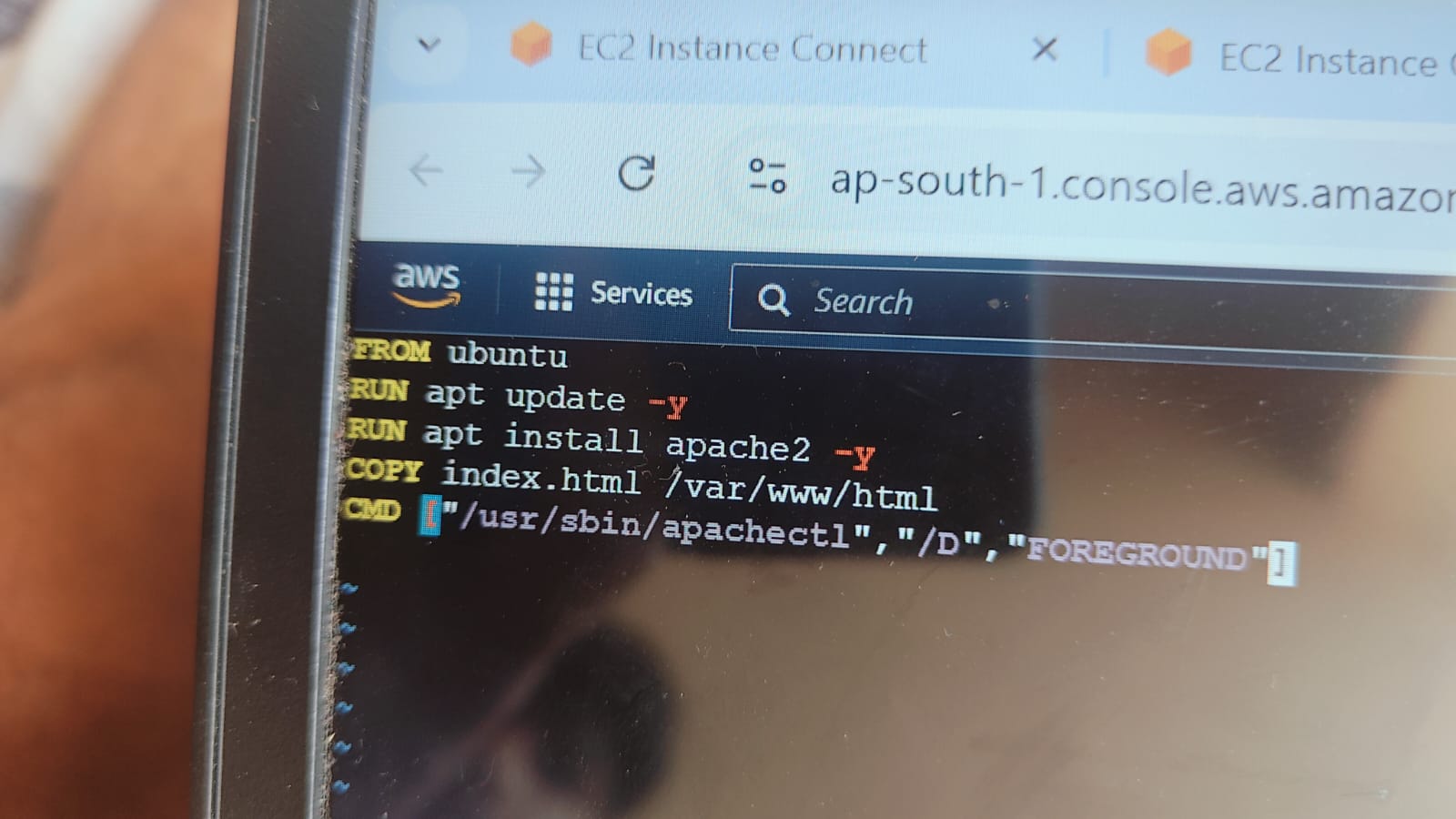
* **Add tocken from slave 1 paste to slave 2**

**GO TO SERVER**

* **Docker service create –name paytm –replicas 4 –publish 82:80 httpd**
* **Docker service ls**
* **Docker ps**

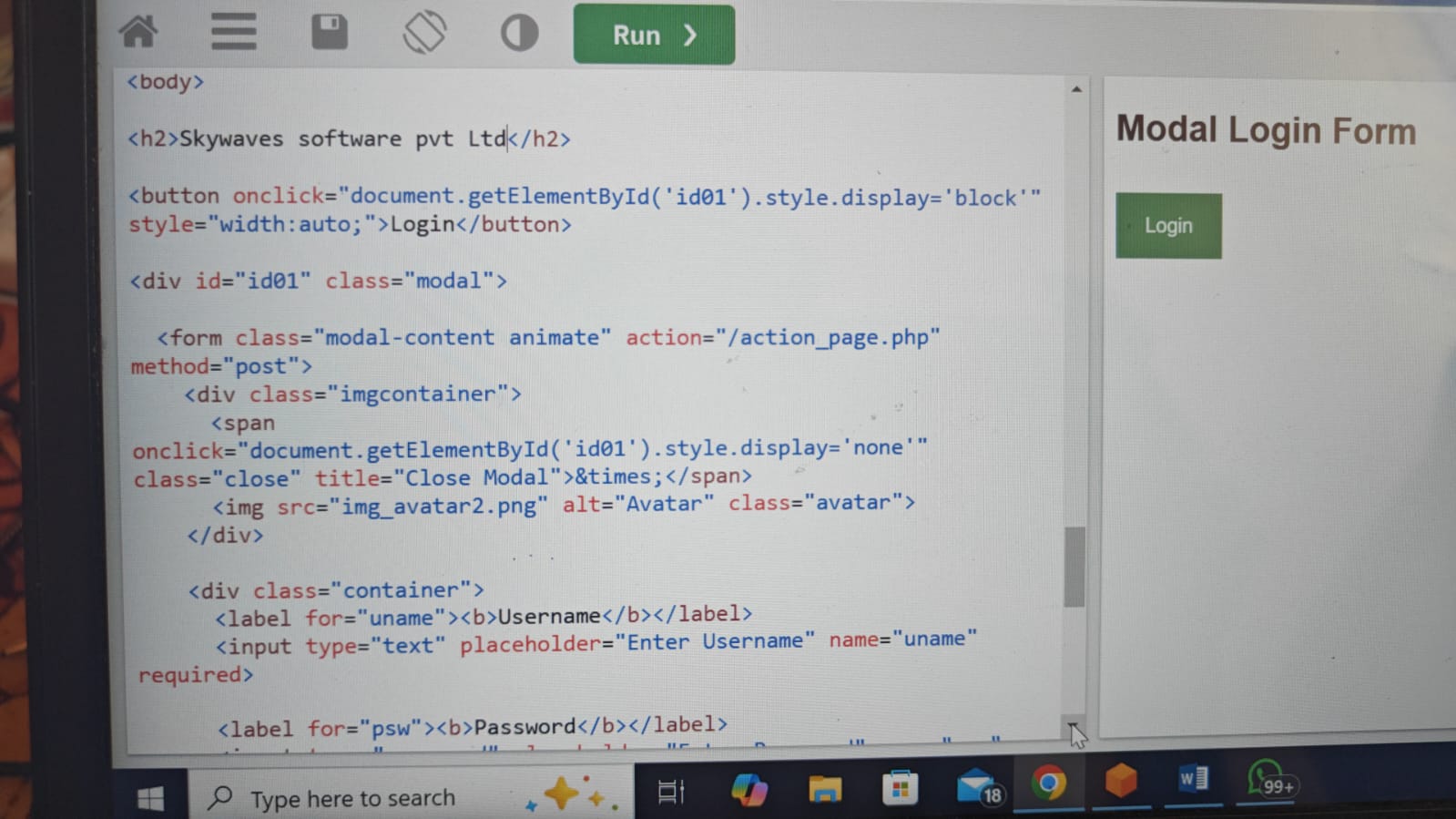
**GO TO SLAVE2**

* **Vi dockerfile**
* **Enter commands and save with wq1 like bellow**

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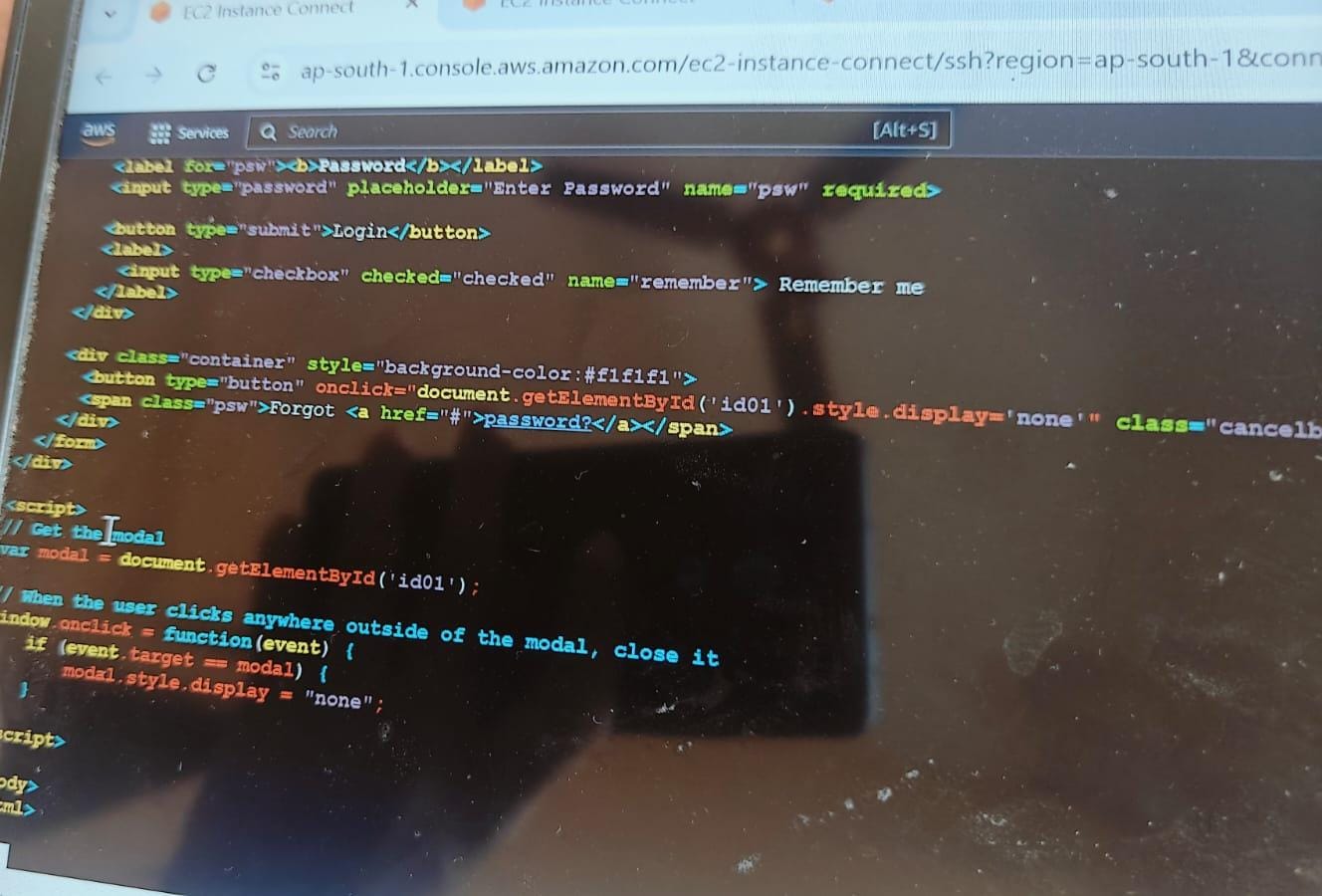
**GO TO GOOGLE**

* HTML LOGIN PAGE
* TRY IT YOURSELF
* MODIFY H2 AS SKYWAVES SOFTWARE PVT LTD
* RUN AND COPY



**GO TO SERVER**

* **Vi index.html**

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* **Ll**
* **Vi dockerfile**

**GO TO SLAVE 2**

* **Vi dockerfile (copy commands and paste in server docker file)**

**GO TO SERVER**

* **Docker build –t image .**
* **Docker service ls**
* **Docker images**
* **Docker service create –name ram –replicas 3 –publish 84:80 image**
* **Docker ps**

Copy public ip and check url with 84

GO TO SERVER

Docker service ls

GO TO SLAVE1

* Docker ps

GO TO GOOGLE

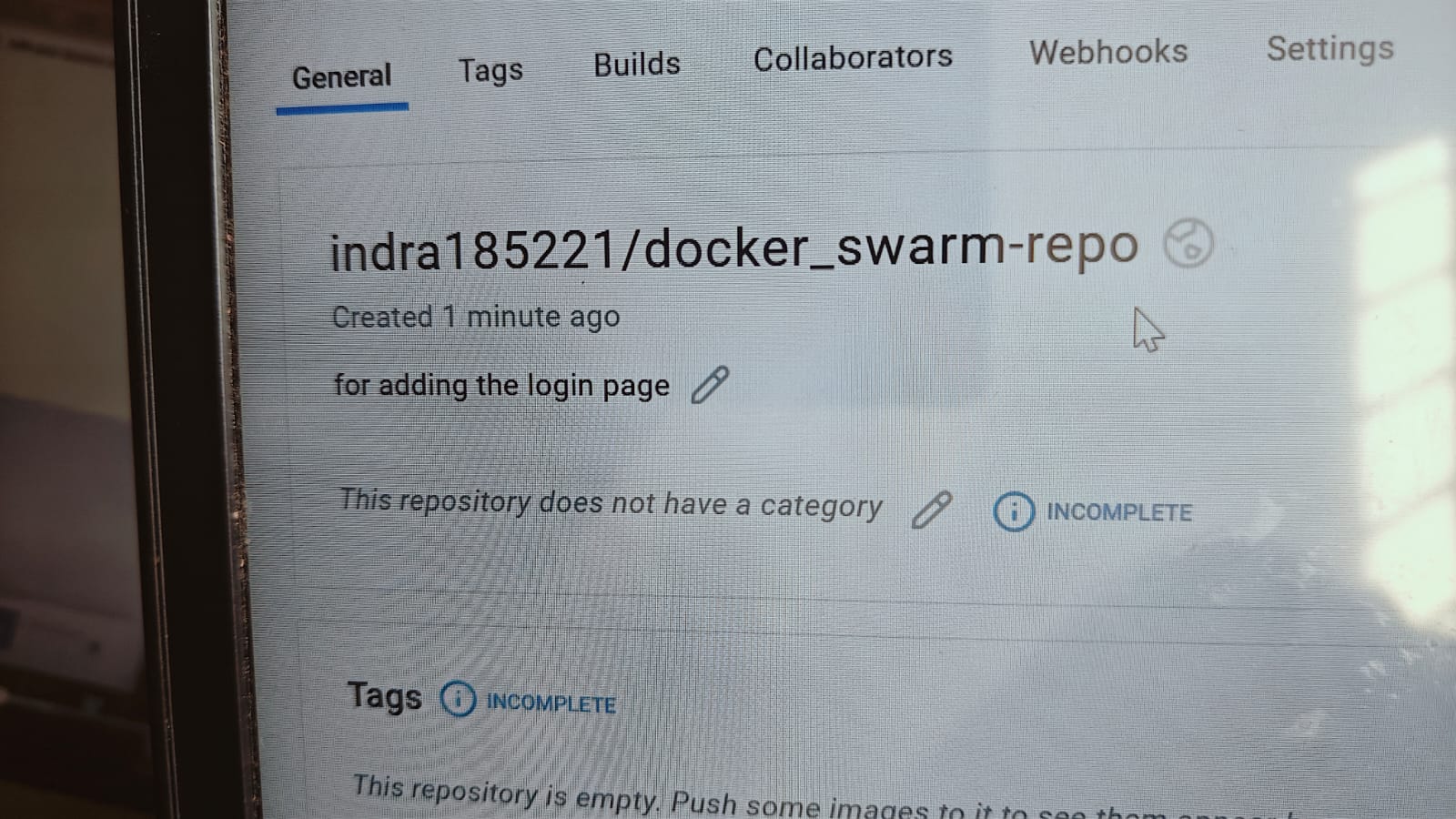
* Dockerhub
* Login

GO TO SERVER

* Docker login
* Username
* Password
* Docker images

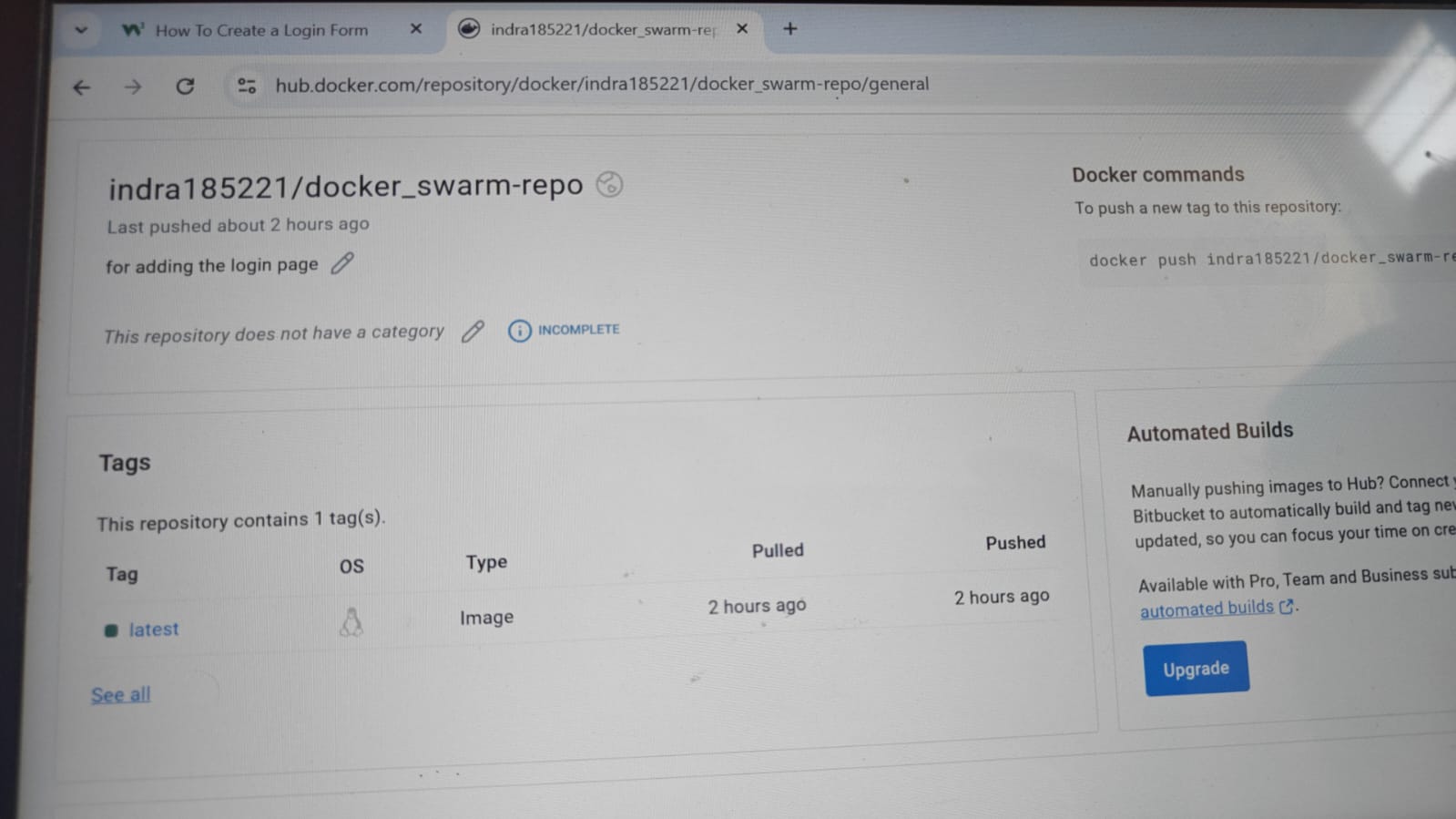
GO TO DOCKERHUB

* Create repository
* Name (docker\_swarm-repo)
* Descrbtion(for adding the login page)
* Public create



GO TO SERVER

* Docker tag image name (paste reo name)
* D0cker images
* Docker push (repo name)
* Then iamage was created in dockerhub we can check



* Docker service create –name ramu –replicas 10 –publish 90:80 image
* Docker ps
* By copying public ip and imageaddress 90 we can check through url
* Docker ps
* Docker stop cont id
* Docker ps
* Docker service ls

Go to slave 1 and 2 we can check containers

* Docker ps

GO TO SERVER

* Docker ps
* Docker ps –a

