

Team ID : PNT2022TMID20692

Project Name : News Tracker Application

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1.Pull an image from docker hub and run it in docker playground.

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:57:14, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button. Below that, a list of instances shows '192.168.0.28 node1'. The main area displays the instance details for 'cds896n9_cds899791rrg00cdn6h0', including IP '192.168.0.28', memory usage '1.20% (47.85MiB / 3.906GiB)', CPU usage '0.65%', and an SSH command. Below the details are 'DELETE' and 'EDITOR' buttons. The terminal window shows a warning message and the command to pull the 'hello-world' image from Docker Hub, which is successfully completed.

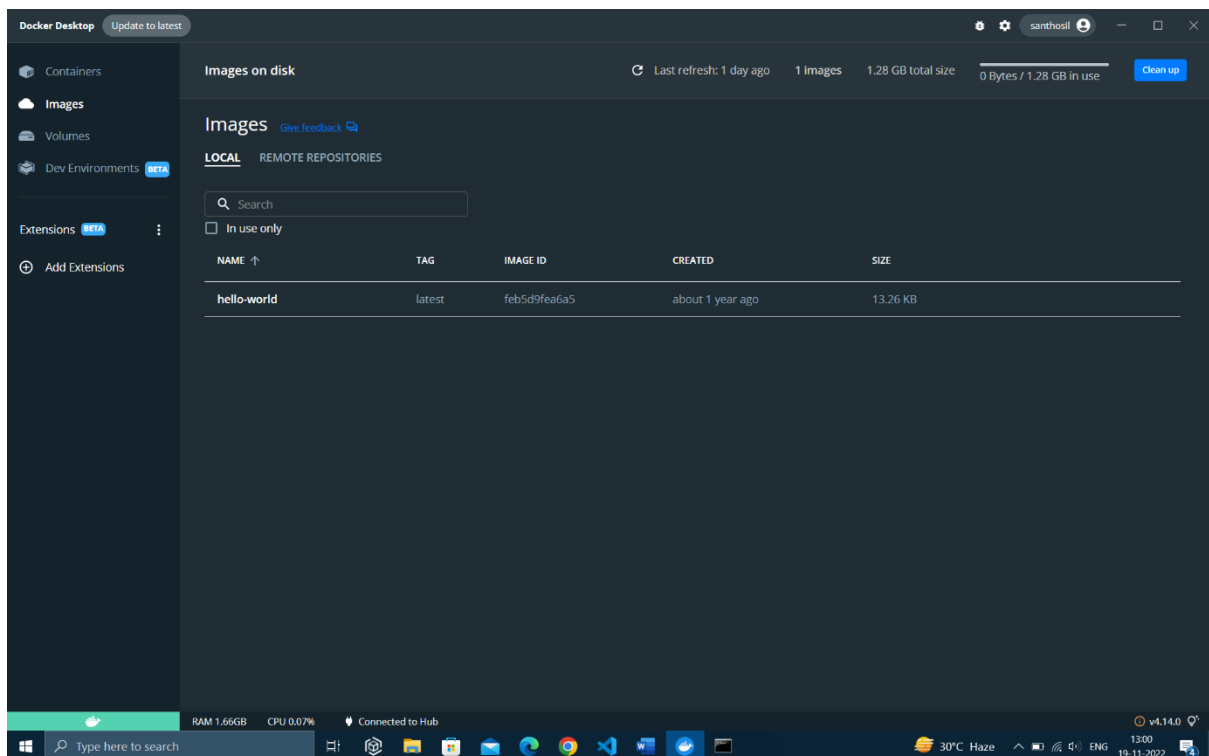
```
#####  
# WARNING!!!!  
# This is a sandbox environment. Using personal credentials  
# is HIGHLY! discouraged. Any consequences of doing so are  
# completely the user's responsibilities.  
#  
# The FWD team.  
#####  
(node1) (local) root@192.168.0.28 ~  
$ docker pull hello-world  
Using default tag: latest  
latest: Pulling from library/hello-world  
2db29710123e: Pull complete  
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af  
Status: Downloaded newer image for hello-world:latest  
docker.io/library/hello-world:latest  
(node1) (local) root@192.168.0.28 ~  
$
```

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:55:06, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button. Below that, a list of instances shows '192.168.0.28 node1'. The main area displays the instance details for 'cds896n9_cds899791rrg00cdn6h0', including IP '192.168.0.28', memory usage '1.23% (49.36MiB / 3.906GiB)', CPU usage '0.65%', and an SSH command. Below the details are 'DELETE' and 'EDITOR' buttons. The terminal window shows the output of the 'hello-world' container, which includes a list of steps explaining the Docker process and a link to the Docker Hub.

```
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.  
(amd64)  
3. The Docker daemon created a new container from that image which runs the  
executable that produces the output you are currently reading.  
4. The Docker daemon streamed that output to the Docker client, which sent it  
to your terminal.  
  
To try something more ambitious, you can run an Ubuntu container with:  
$ docker run -it ubuntu bash  
  
Share images, automate workflows, and more with a free Docker ID:  
https://hub.docker.com/  
  
For more examples and ideas, visit:  
https://docs.docker.com/get-started/  
  
(node1) (local) root@192.168.0.28 ~  
$ docker run hello-world
```

2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

```
FROM python:3.10
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python -m pip install -r requirements.txt
RUN python -m pip install ibm_db
EXPOSE 5001
ENTRYPOINT [ "python" ]
CMD [ "app.py" ]
```



3. Create a IBM container registry and deploy helloworld app or jobportalapp.