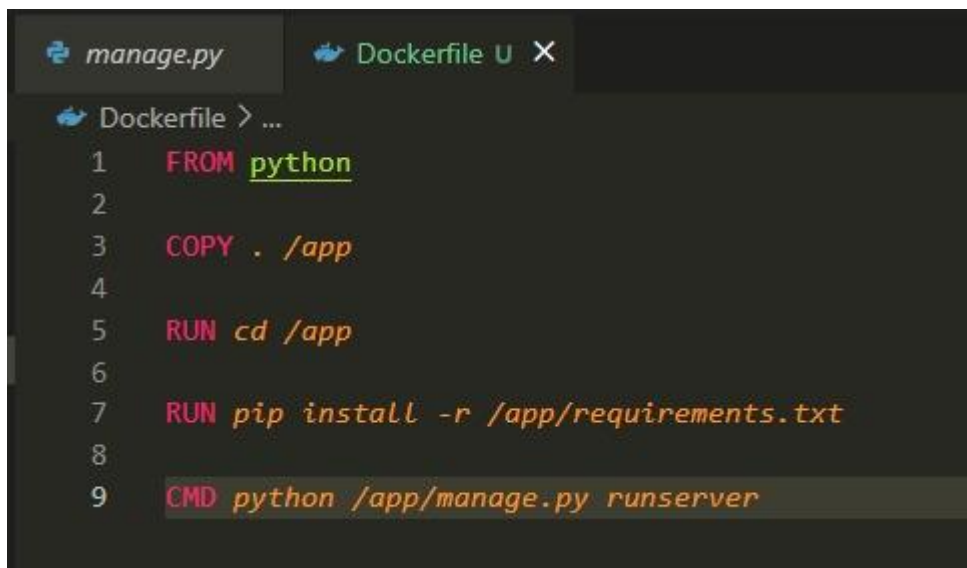


Docker File



```
manage.py Dockerfile U X
Dockerfile > ...
1 FROM python
2
3 COPY . /app
4
5 RUN cd /app
6
7 RUN pip install -r /app/requirements.txt
8
9 CMD python /app/manage.py runserver
```

Docker Build

```
PS C:\Users\shiva\Documents\Clg\Projects\cloud\News_API-main\News_API-main\NewsAPI PROJECT\newsProject> docker build .
[+] Building 39.4s (9/9) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 176B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/python:latest
=> [internal] load build context
=> => transferring context: 17.51kB
=> CACHED [1/4] FROM docker.io/library/python@sha256:10fc14aa6ae69f69e4c953cffd9b0964843d8c163950491d2138af891377bc1d
=> [2/4] COPY . /app
=> [3/4] RUN cd /app
=> [4/4] RUN pip install -r /app/requirements.txt
=> exporting to image
=> => exporting layers
=> => writing image sha256:41db5dcf261d75701b32d5260ed9b7ad958a64c2087f46d6d8971bc61ee04078
```

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

```
PS C:\Users\shiva\Documents\Clg\Projects\cloud\News_API-main\News_API-main\NewsAPI PROJECT\newsProject>
```

Docker Run

```
PS C:\Users\shiva\Documents\Clg\Projects\cloud\News_API-main\News_API-main\NewsAPI PROJECT\newsProject> docker run --rm -p 8720:8000 41
Watching for file changes with StatReloader
Performing system checks...

/app/newsapp/views.py:128: SyntaxWarning: "is not" with a literal. Did you mean "!="?
  if total_splits is not 7:
System check identified no issues (0 silenced).
November 25, 2022 - 08:43:43
Django version 4.0.5, using settings 'newsProject.settings'
Starting development server at http://0.0.0.0:8000/
Quit the server with CONTROL-C.
[25/Nov/2022 08:44:00] "GET / HTTP/1.1" 302 0
[25/Nov/2022 08:44:00] "GET /login HTTP/1.1" 200 2410
Not Found: /favicon.ico
[25/Nov/2022 08:44:00] "GET /favicon.ico HTTP/1.1" 404 3811
```

Website



Login

Username

Enter Username

Password

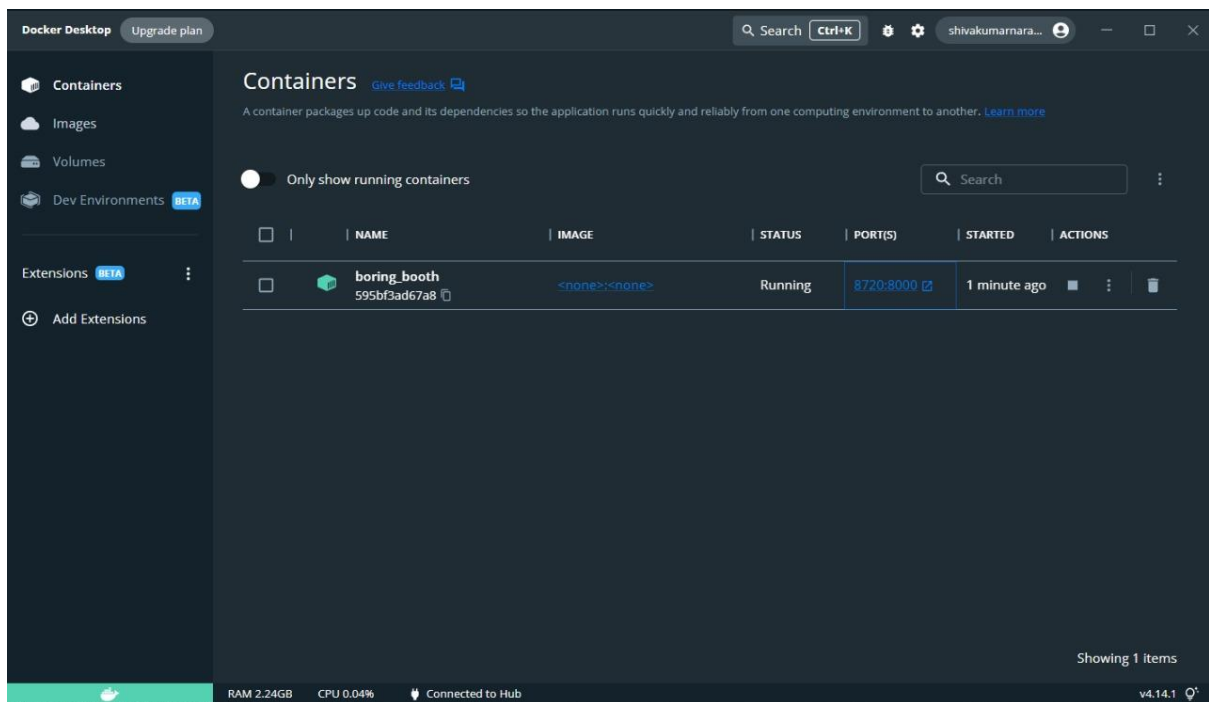
Password

Submit

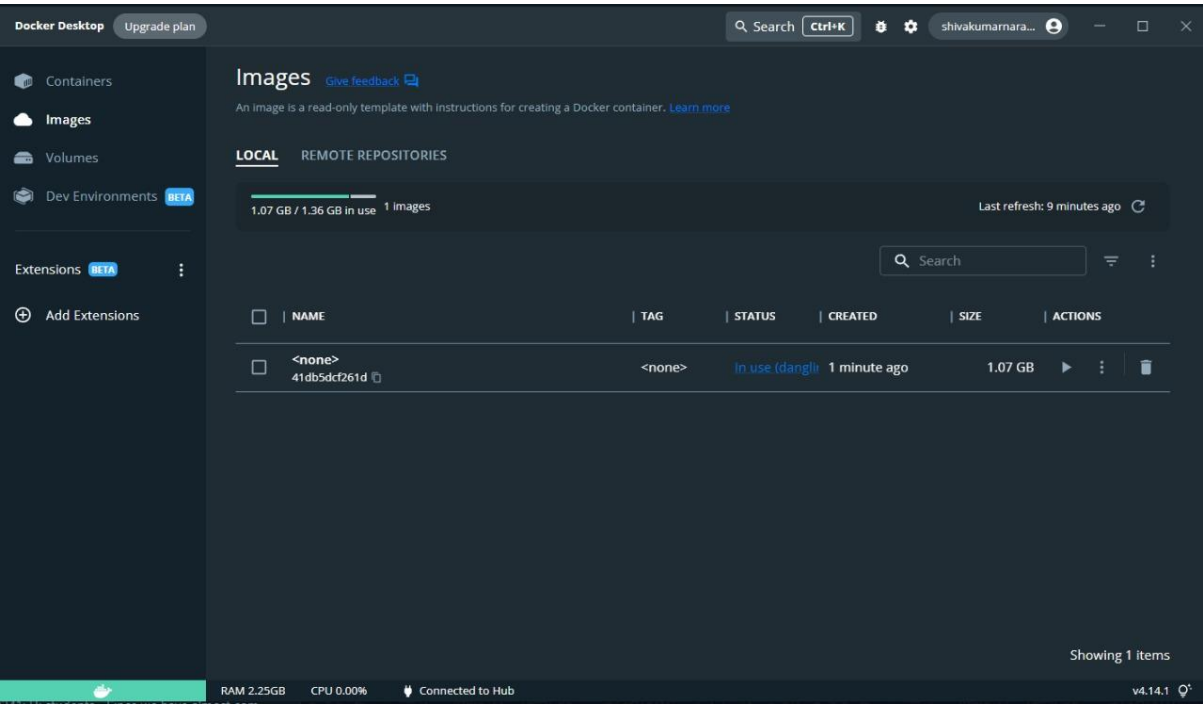
[Click here to Sign Up](#)



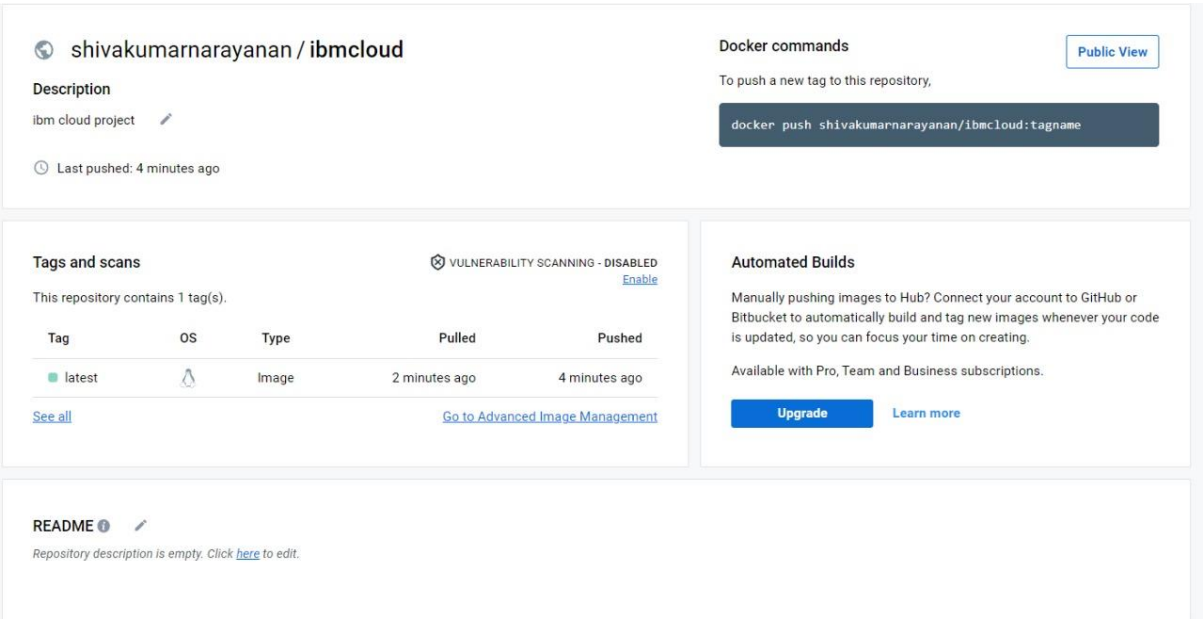
Container



Image



Uploaded Image



Kubernetes Cluster

The screenshot displays the IBM Cloud Kubernetes dashboard. At the top, there's a navigation bar with 'IBM Cloud', a search bar, and user account information. The main header shows 'Clusters / ibmcloudcluster' with a status indicator 'Preparing master, workers...' and a warning 'Expires in 30 days'. A sidebar on the left lists navigation options: Overview, Worker nodes, Worker pools, and DevOps. The main content area features a 'Node status' card showing '1 of 1' nodes in 'Pending' state. Other cards show 'Add-on status' (0 of 0, Normal), 'Master status' (Unknown), and 'Ingress status' (Pending). A 'Details' section provides metadata: Cluster ID 'ce88a7ff647132gf1mq9', Version '1.24.0_1544', Infrastructure 'Classic', Zones 'Milan 01', Created '11/25/2022, 2:34 PM', Resource group, Image pull secrets (Enable), and Image security enforcement (Enable). A 'Node health' section shows '1 total nodes' with a status bar indicating 0% Critical, 0% Warning, 0% Normal, and 100% Pending. A 'Networking' section is partially visible at the bottom. A right-hand sidebar contains a 'Help' menu with options like 'Log in to your cluster', 'Deploy your app', 'Expose your app', 'Add storage to your app', 'Connect integrations', 'Install add-ons', and 'Troubleshoot'.

Running on Kubernetes

The screenshot shows the Kubernetes dashboard interface. The top navigation bar includes the 'kubernetes' logo, a 'default' namespace selector, a search bar, and icons for adding resources, notifications, and user profile. The left sidebar contains a 'Workloads' menu with sub-items: Services, Config and Storage (Config Maps, Persistent Volume Claims, Secrets, Storage Classes), Cluster (Cluster Role Bindings, Cluster Roles, Events, Namespaces, Network Policies), Nodes, Persistent Volumes, Role Bindings, Roles, Service Accounts, and Custom Resource Definitions. The main area is titled 'Workload Status' and features three large green circular indicators for 'Deployments', 'Pods', and 'Replica Sets', each labeled 'Running: 1'. Below these are two tables. The 'Deployments' table has columns for Name, Images, Labels, Pods, and Created, showing one deployment named 'ibmcloud-deployment' with 1/1 pods created 10 minutes ago. The 'Pods' table has columns for Name, Images, Labels, Node, Status, Restarts, CPU Usage (cores), Memory Usage (bytes), and Created, showing one pod named 'ibmcloud-deployment-67586ff74-hmrt5' running on node '10.144.185.57' with 0 restarts, 6.90m CPU usage, and 72.46MiB memory usage, created 10 minutes ago.