

PROJECT DEVELOPMENT PHASE

SPRINT - 4

Date	24 November 2022
Team ID	PNT2022TMID43829
Project Name	Smart Fashion Recommender Application
Maximum Marks	

Building Docker :

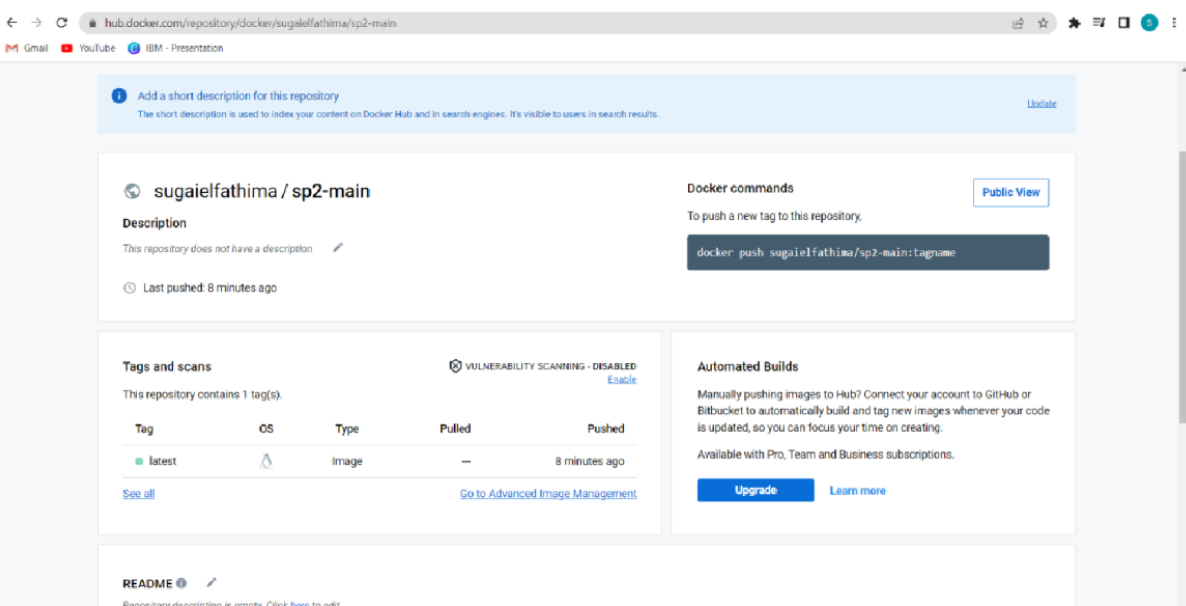
```
C:\Users\SUGAIEL FATHIMA\Downloads\sprint2-main\sprint2-main>docker build -t sprint2-main .
[+] Building 57.9s (12/12) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 32B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.6 4.3s
=> [auth] library/python:pull token for registry-1.docker.io 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 4.6kB 0.0s
=> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afa88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6 0.0s
=> CACHED [2/6] WORKDIR /app 0.0s
=> [3/6] ADD . /app 0.1s
=> [4/6] COPY requirements.txt /app 0.0s
=> [5/6] RUN python3 -m pip install -r requirements.txt 51.3s
=> [6/6] RUN python3 -m pip install ibm_db 1.0s
=> exporting to image 1.0s
=> => exporting layers 1.0s
=> => writing image sha256:6ce2c074559a79a6c76bd066243b3005317495bab99e1674c5f06142f9efdc0d 0.0s
=> => naming to docker.io/library/sprint2-main 0.0s

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

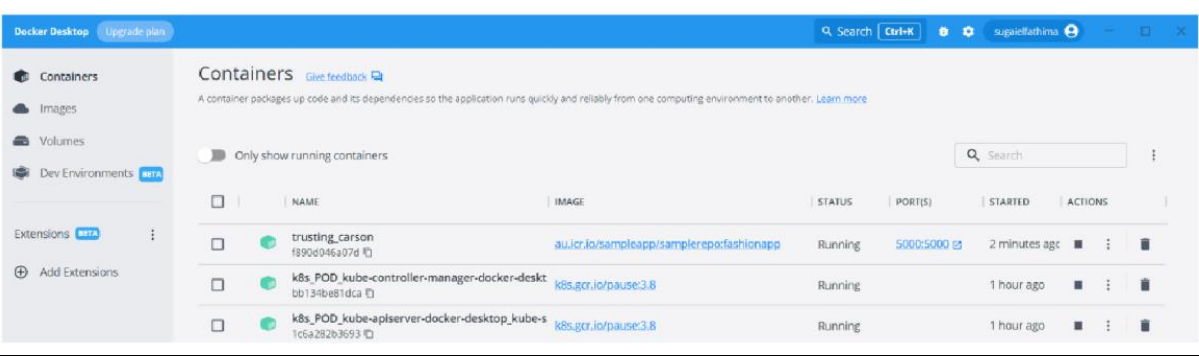
C:\Users\SUGAIEL FATHIMA\Downloads\sprint2-main\sprint2-main>docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
sprint2-main        latest         6ce2c074559a   28 seconds ago  1.08GB
<none>              <none>        35762d3ac67a   11 hours ago    1.08GB
bifd/ui-for-docker  latest       965940f98fa5   6 years ago     8.1MB

C:\Users\SUGAIEL FATHIMA\Downloads\sprint2-main\sprint2-main>docker run -p 5000:5000 sprint2-main
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET /static/home.css HTTP/1.1" 200 -
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET /static/img/accessories1.png HTTP/1.1" 200 -
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET /static/img/men1.png HTTP/1.1" 200 -
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET /static/img/women2.png HTTP/1.1" 200 -
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET /static/img/accessories2.png HTTP/1.1" 200 -
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET /static/img/women1.png HTTP/1.1" 200 -
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET /static/img/men2.png HTTP/1.1" 200 -
172.17.0.1 - - [17/Nov/2022 14:23:43] "GET /static/img/home2.jpg HTTP/1.1" 200 -
```

Creating Repository in Docker Hub :

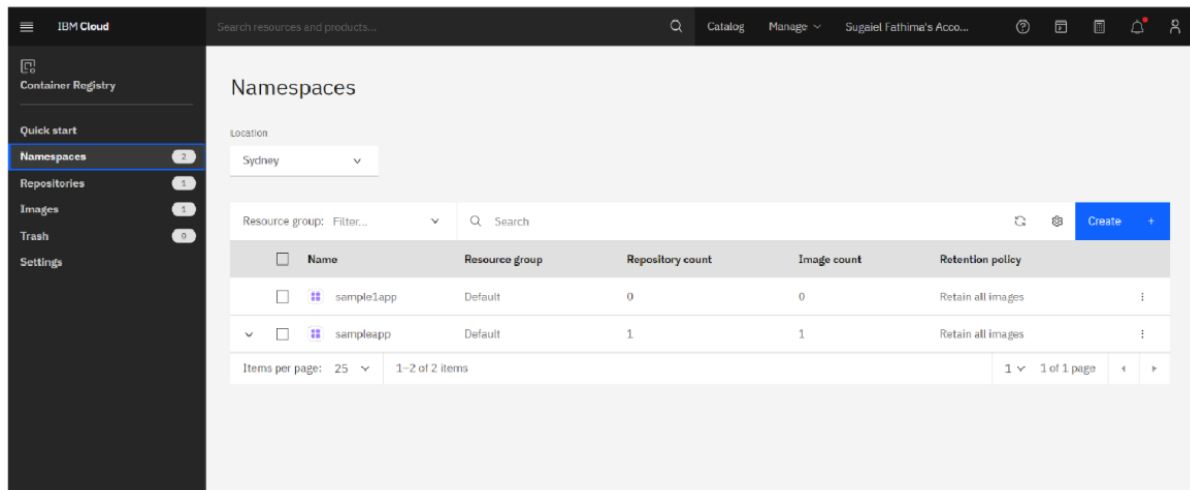


Pushing Docker into Container :



Pushing Image to Container Registry :

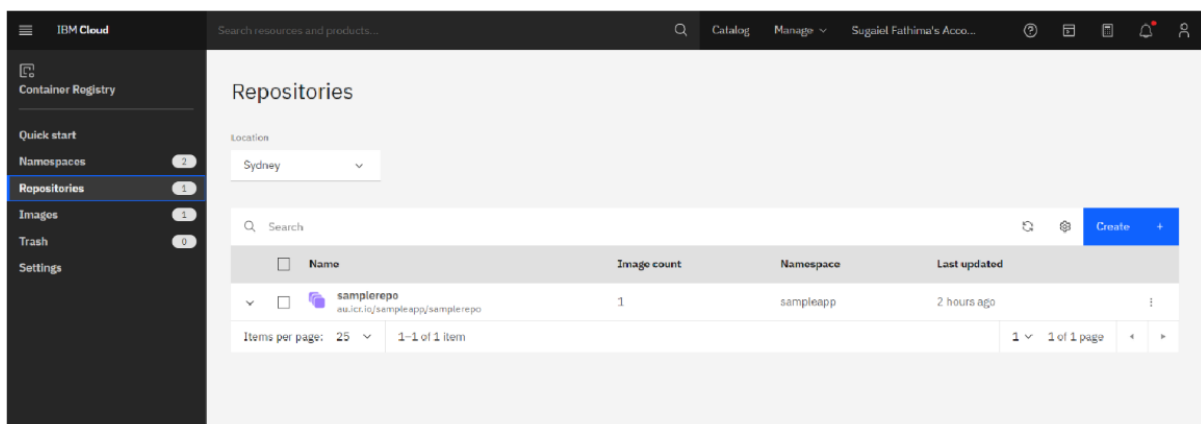
Creating Namespace -



The screenshot shows the IBM Cloud Container Registry interface. The left sidebar has a 'Namespaces' tab selected, showing 2 items. The main panel is titled 'Namespaces' and shows a table of existing namespaces. The location is set to 'Sydney'. A 'Create' button is visible in the top right of the main panel.

Name	Resource group	Repository count	Image count	Retention policy
sample1app	Default	0	0	Retain all images
sampleapp	Default	1	1	Retain all images

Creating Repository -



The screenshot shows the IBM Cloud Container Registry interface with the 'Repositories' tab selected in the sidebar. The main panel is titled 'Repositories' and shows a table of existing repositories. The location is set to 'Sydney'. A 'Create' button is visible in the top right of the main panel.

Name	Image count	Namespace	Last updated
samplerepo	1	sampleapp	2 hours ago

Creating Image

IBM Cloud

Search resources and products...

Container Registry

Quick start

Namespaces 2

Repositories 1

Images 1

Trash 0

Settings

Images

Location: Sydney

View by: Digest Search

Repository@digest	Tags	Manifest type	Created	Size
sampleapp/samplerepo@sha256:c727218d9079...	fashionapp	Docker	2 hours ago	439 MB

Items per page: 25 1-1 of 1 item

Deploy in Kubernetes :

Creating Cluster –

IBM Cloud

Search resources and products...

Kubernetes

Clusters

Reservations

Helm catalog

Container Registry

Kubernetes clusters

Resource group: Filter... Location: Filter... Search Create cluster +

Name	State	Location	Worker count	Created	Version	Infrastructure
mycluster-free	Normal	Amsterdam	1	Expires in 26 days	1.24.7_1542	Classic

Items per page: 25 1-1 of 1 item 1 1 of 1 page

Deployment -

```
Command Prompt
C:\Users\SUGAIEL FATHIMA>kubectl
kubectl controls the Kubernetes cluster manager.

Find more information at: https://kubernetes.io/docs/reference/kubectl/

Basic Commands (Beginner):
  create      Create a resource from a file or from stdin
  expose      Take a replication controller, service, deployment or pod and expose it as a new Kubernetes service
  run         Run a particular image on the cluster
  set         Set specific features on objects

Basic Commands (Intermediate):
  explain     Get documentation for a resource
  get         Display one or many resources
  edit        Edit a resource on the server
  delete      Delete resources by file names, stdin, resources and names, or by resources and label selector

Deploy Commands:
  rollout     Manage the rollout of a resource
  scale       Set a new size for a deployment, replica set, or replication controller
  autoscale   Auto-scale a deployment, replica set, stateful set, or replication controller

Cluster Management Commands:
  certificate  Modify certificate resources.
  cluster-info Display cluster information
  top          Display resource (CPU/memory) usage
  cordon      Mark node as unschedulable
  uncordon    Mark node as schedulable
  drain       Drain node in preparation for maintenance
  taint        Update the taints on one or more nodes

Troubleshooting and Debugging Commands:
  describe    Show details of a specific resource or group of resources
  logs        Print the logs for a container in a pod
  attach      Attach to a running container
  exec        Execute a command in a container
  port-forward Forward one or more local ports to a pod
  proxy        Run a proxy to the Kubernetes API server
  cp          Copy files and directories to and from containers
  auth        Inspect authorization
  debug        Create debugging sessions for troubleshooting workloads and nodes

Advanced Commands:
  diff        Diff the live version against a would-be applied version
  apply       Apply a configuration to a resource by file name or stdin
  patch       Update fields of a resource
```