

Sprint-4

Team ID	PNT2022TMID26787
Project Name	Smart Fashion Recommender Application
Date	11-november-2022

Building Docker:

```
C:\Users\SUGAIEL FATHIMA>cd C:\Users\SUGAIEL FATHIMA\Downloads\sprint2-main\sprint2-main\
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: 4.66kB                                                0.0s
=> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6 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 sha256:6ce2c074559a79aac76bd066243b3005317495bab99e1674c5f06142f9efdc0d 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
uifd/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:

The screenshot shows the Docker Hub interface for a repository named 'sugaielfathima / sp2-main'. At the top, there's a light blue banner prompting to 'Add a short description for this repository'. Below this, the repository name is displayed with a 'Description' section that states 'This repository does not have a description'. To the right, 'Docker commands' are shown, including a 'Public View' button and a command box with 'docker push sugaielfathima/sp2-main:tagname'. The 'Tags and scans' section indicates 'VULNERABILITY SCANNING - DISABLED' and shows a table with one tag, 'latest', pushed 8 minutes ago. An 'Automated Builds' section on the right explains how to connect to GitHub or Bitbucket. At the bottom, a 'README' section is empty.

hub.docker.com/repository/docker/sugaielfathima/sp2-main

sugaielfathima / sp2-main

Description

This repository does not have a description

Last pushed: 8 minutes ago

Docker commands

To push a new tag to this repository,

```
docker push sugaielfathima/sp2-main:tagname
```

Tags and scans

VULNERABILITY SCANNING - DISABLED

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest	linux	Image	—	8 minutes ago

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions.

README

Repository description is empty. Click here to edit.

Pushing Docker into Container:

The screenshot shows the Docker Desktop interface with the 'Containers' tab selected. A sidebar on the left contains navigation options: Containers, Images, Volumes, Dev Environments, Extensions, and Add Extensions. The main area displays a list of running containers. A toggle switch for 'Only show running containers' is active. The container list includes columns for checkboxes, NAME, IMAGE, STATUS, PORT(S), STARTED, and ACTIONS. Three containers are listed: 'trusting_carson' (image: au.icr.io/sampleapp/samplerepo:fashionapp), 'k8s_POD_kube-controller-manager-docker-deskt' (image: k8s.gcr.io/pause:3.8), and 'k8s_POD_kube-apiserver-docker-desktop_kube-s' (image: k8s.gcr.io/pause:3.8).

Docker Desktop

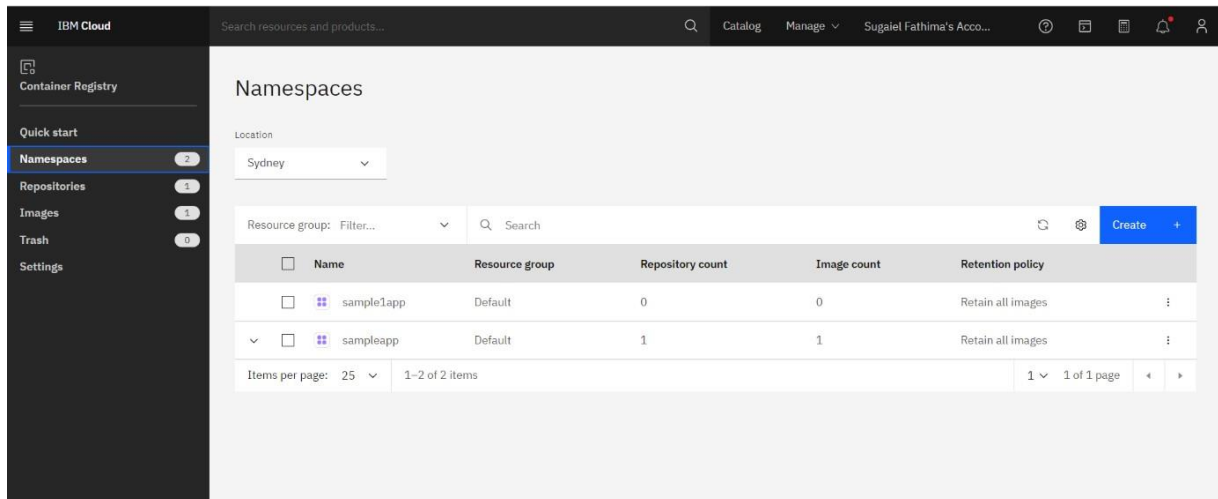
Containers

Only show running containers

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	trusting_carson f890d046a07d	au.icr.io/sampleapp/samplerepo:fashionapp	Running	5000:5000	2 minutes ago	Stop, Restart, Delete
<input type="checkbox"/>	k8s_POD_kube-controller-manager-docker-deskt bb134be81dca	k8s.gcr.io/pause:3.8	Running		1 hour ago	Stop, Restart, Delete
<input type="checkbox"/>	k8s_POD_kube-apiserver-docker-desktop_kube-s 1c6a282b3693	k8s.gcr.io/pause:3.8	Running		1 hour ago	Stop, Restart, Delete

Pushing Image to Container Registry:

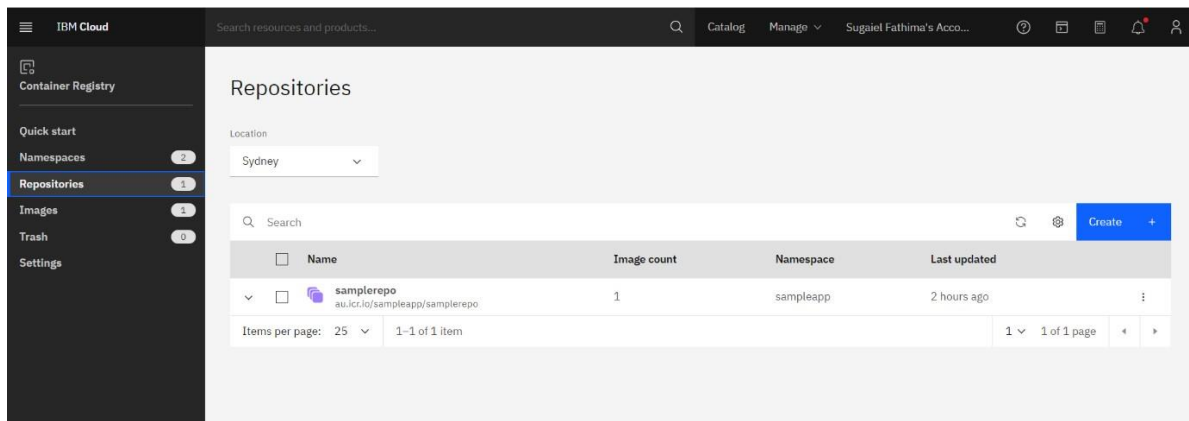
Creating Namespace:



The screenshot shows the IBM Cloud Container Registry interface. The left sidebar has a 'Namespaces' tab selected, showing 2 items. The main content area is titled 'Namespaces' and shows a table of existing namespaces. The table has columns for Name, Resource group, Repository count, Image count, and Retention policy. Two namespaces are listed: 'sample1app' and 'sampleapp'. The 'sampleapp' namespace has 1 repository and 1 image. A 'Create' button is visible in the top right of the table area.

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

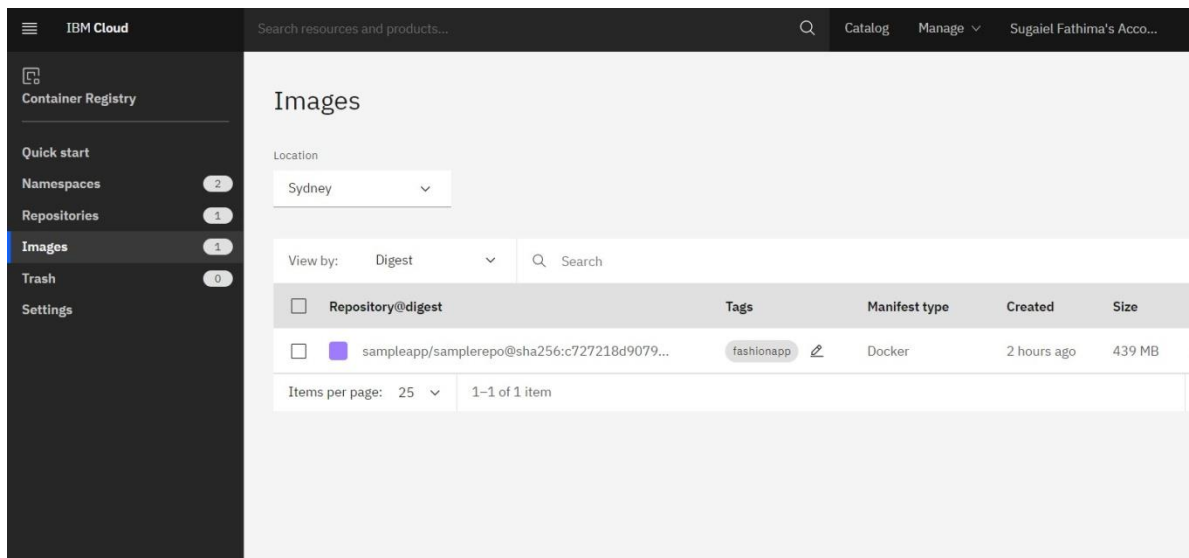
Creating Repository:



The screenshot shows the IBM Cloud Container Registry interface. The left sidebar has a 'Repositories' tab selected, showing 1 item. The main content area is titled 'Repositories' and shows a table of existing repositories. The table has columns for Name, Image count, Namespace, and Last updated. One repository is listed: 'samplerepo' under the 'sampleapp' namespace. A 'Create' button is visible in the top right of the table area.

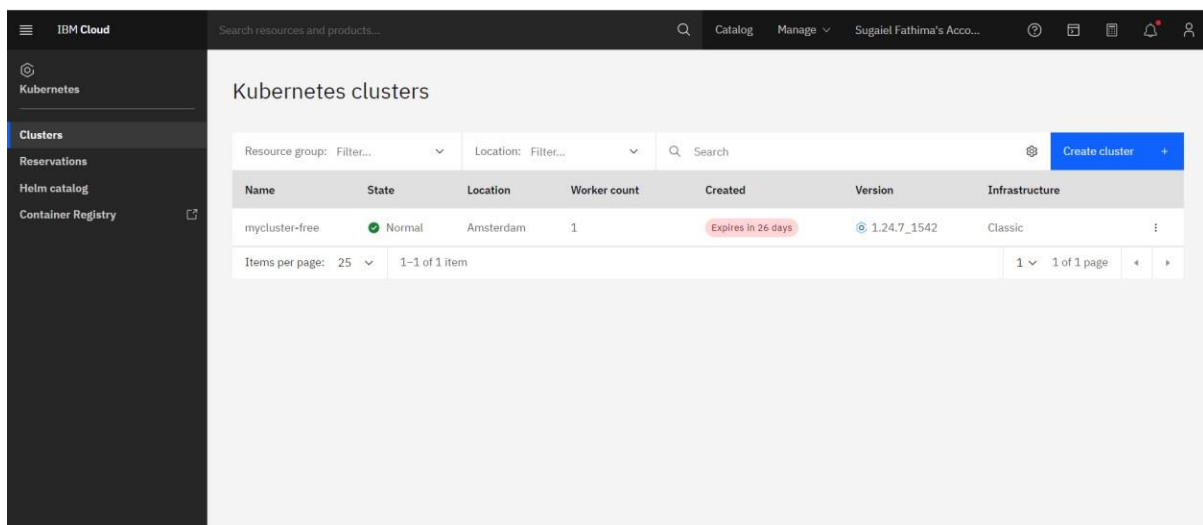
Name	Image count	Namespace	Last updated
samplerepo au.icr.io/sampleapp/samplerepo	1	sampleapp	2 hours ago

Creating Image:



Deploy in Kubernetes:

Creating Cluster:



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
  replace     Replace a resource by file name or stdin
  wait        Experimental: Wait for a specific condition on one or many resources
  kustomize   Build a kustomization target from a directory or URL.
```