

Assignment -4

Docker and Kubernetes

Assignment Date	1 November 2022
Student Name	NATARAJASIVAM R
Student Roll Number	113319205027
Maximum Marks	2 Marks

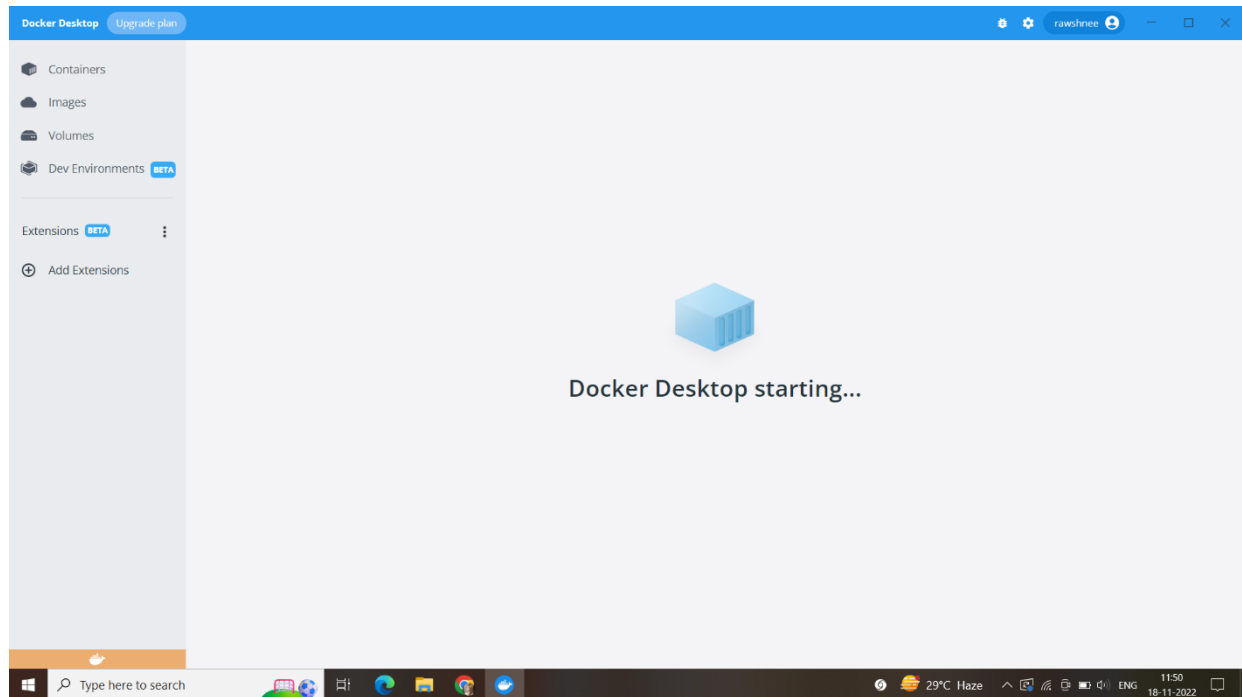
1. Step 1

A screenshot of a Google search results page for the query 'docker'. The search bar shows 'docker' and the results are filtered by 'All'. The top result is 'Docker: Accelerated, Containerized Application Development' with a brief description: 'Docker is a platform designed to help developers build, share, and run modern applications. We handle the tedious setup, so you can focus on the code.' Below this are links for 'Docker Desktop', 'Documentation', 'Hub', and 'Install on Windows'. To the right, there is a knowledge panel for Docker Software, featuring the Docker logo and a description: 'Docker is a set of platform as a service product that use OS-level virtualization to deliver software in packages called containers. The service has both free and premium tiers. The software that hosts the containers is called Docker Engine. It was first started in 2013 and is developed by Docker, Inc. Wikipedia'. The panel also lists: 'Initial release date: 20 March 2013', 'Original author: Docker, Inc.', 'License: Free / Paid', 'Platform: x86-64, ARM, s390x, ppc64le', 'Operating system: Linux, Windows, macOS', and 'Stable release: 20.10.21 / 25 October 2022; 21 days ago'. The browser's taskbar at the bottom shows several open files and the system clock indicating 10:13 on 18-11-2022.

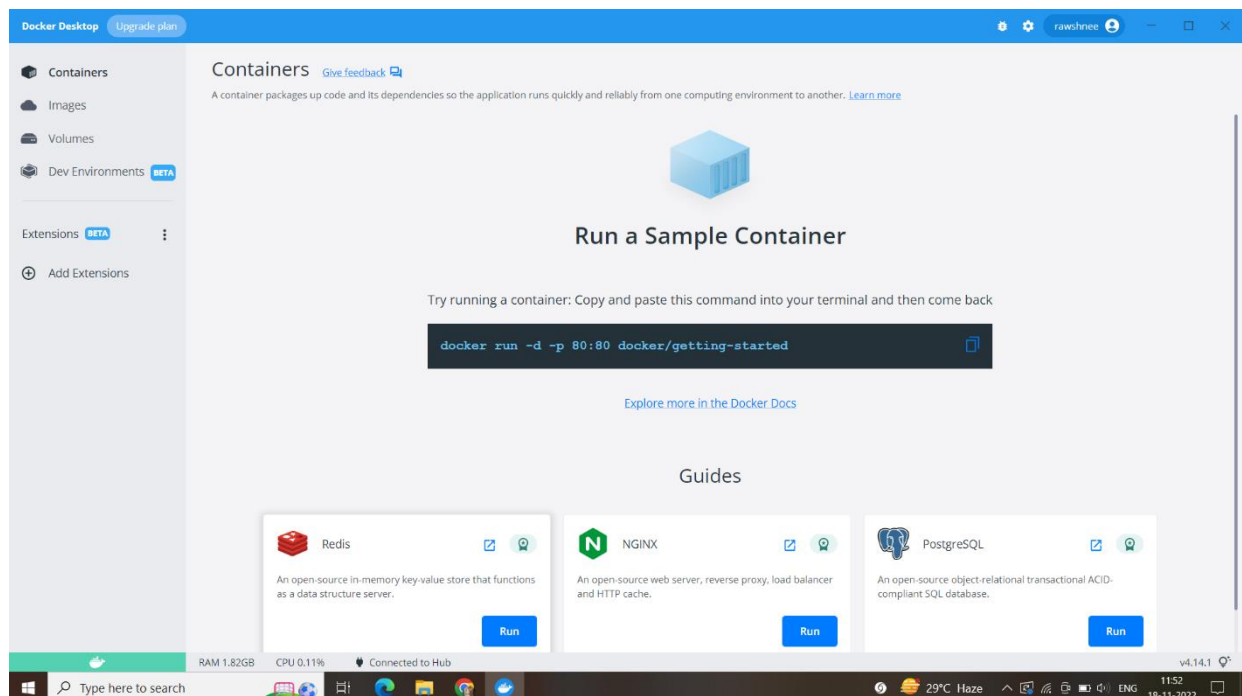
Step.2

A screenshot of the Docker website. The header features the Docker logo and navigation links for 'Products', 'Developers', 'Pricing', 'Blog', 'About Us', and 'Partners'. A 'Sign in' link and a 'Get Started' button are also present. The main content area has a large blue background with the text 'Develop faster. Run anywhere.' and 'The most-loved Tool in Stack Overflow's 2022 Developer Survey.' Below this is a prominent blue button that says 'Download Docker Desktop' with a Windows logo. At the bottom, there are logos for 'Apple Chip', 'Linux', and 'Intel Chip'. The browser's taskbar at the bottom shows the same open files and system clock as the previous screenshot.

Step.3



Step.4



Step.5

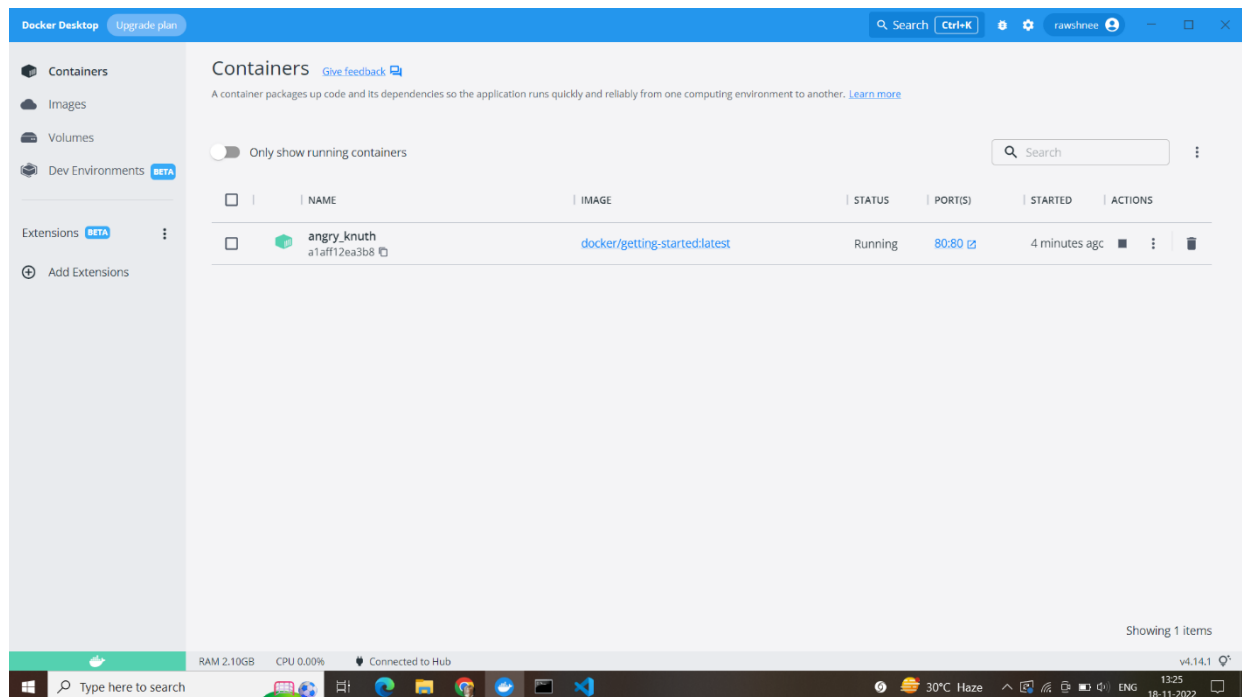
```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\rawsh>docker version
Client:
 Cloud integration: v1.0.29
 Version: 20.10.21
 API version: 1.41
 Go version: go1.18.7
 Git commit: baedelf
 Built: Tue Oct 25 18:08:16 2022
 OS/Arch: windows/amd64
 Context: default
 Experimental: true

Server: Docker Desktop 4.14.1 (91661)
 Engine:
  Version: 20.10.21
  API version: 1.41 (minimum version 1.12)
  Go version: go1.18.7
  Git commit: 3056208
  Built: Tue Oct 25 18:00:19 2022
  OS/Arch: linux/amd64
  Experimental: false
 containerd:
  Version: 1.6.9
  GitCommit: 1c98a442489720ecc95342e1789ee8a5e1b9536f
 runc:
  Version: 1.1.4
  GitCommit: v1.1.4-0-g5fd4c4d
 docker-init:
  Version: 0.19.0
  GitCommit: de4bad0

C:\Users\rawsh>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED   STATUS    PORTS   NAMES
C:\Users\rawsh>
```

Step.6



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

