

## Experiment No: 5

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Roll No : 05

Batch : A1

### 1. Docker version & Docker run

```
C:\Users\DYP-ATU>docker -v
Docker version 28.0.4, build b8034c0

C:\Users\DYP-ATU>docker run --detach --publish 80:80 --name webservice nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
254e724d7786: Pull complete
d3dc5ec71e9d: Pull complete
913115292750: Pull complete
4f21ed9ac0c0: Pull complete
d38f2ef2d6f2: Pull complete
40a6e9f4e456: Pull complete
3e544d53ce49: Pull complete
Digest: sha256:c15da6c91de8d2f436196f3a768483ad32c258ed4e1beb3d367a27ed67253e66
Status: Downloaded newer image for nginx:latest
ea1118cf8636ef5b98ff39a29837d3ca2aeb398d3ad9b99b228e53f80600a234
```

### 2. Docker image

```
C:\Users\DYP-ATU>docker image ls
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
nginx	latest	c15da6c91de8	3 weeks ago	279MB

### 3. Docker container

```
C:\Users\DYP-ATU>docker container ls
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
ea1118cf8636	nginx	"/docker-entrypoint..."	6 minutes ago	Up 6 minutes	0.0.0.0:80->80/tcp	webservice

## 4. Docker info

```
C:\Users\DYP-ATU>docker info
Client:
Version:      28.0.4
Context:      desktop-linux
Debug Mode:   false
Plugins:
ai: Docker AI Agent - Ask Gordon (Docker Inc.)
  Version:    v1.1.3
  Path:       C:\Program Files\Docker\cli-plugins\docker-ai.exe
buildx: Docker Buildx (Docker Inc.)
  Version:    v0.22.0-desktop.1
  Path:       C:\Program Files\Docker\cli-plugins\docker-buildx.exe
cloud: Docker Cloud (Docker Inc.)
  Version:    0.2.20
  Path:       C:\Program Files\Docker\cli-plugins\docker-cloud.exe
compose: Docker Compose (Docker Inc.)
  Version:    v2.34.0-desktop.1
  Path:       C:\Program Files\Docker\cli-plugins\docker-compose.exe
debug: Get a shell into any image or container (Docker Inc.)
  Version:    0.0.38
  Path:       C:\Program Files\Docker\cli-plugins\docker-debug.exe
desktop: Docker Desktop commands (Beta) (Docker Inc.)
  Version:    v0.1.6
  Path:       C:\Program Files\Docker\cli-plugins\docker-desktop.exe
dev: Docker Dev Environments (Docker Inc.)
  Version:    v0.1.2
  Path:       C:\Program Files\Docker\cli-plugins\docker-dev.exe
extension: Manages Docker extensions (Docker Inc.)
  Version:    v0.2.27
  Path:       C:\Program Files\Docker\cli-plugins\docker-extension.exe
init: Creates Docker-related starter files for your project (Docker Inc.)
  Version:    v1.4.0
  Path:       C:\Program Files\Docker\cli-plugins\docker-init.exe
sbom: View the packaged-based Software Bill Of Materials (SBOM) for an image (Anchore Inc.)
  Version:    0.6.0
  Path:       C:\Program Files\Docker\cli-plugins\docker-sbom.exe
scout: Docker Scout (Docker Inc.)
  Version:    v1.17.0
  Path:       C:\Program Files\Docker\cli-plugins\docker-scout.exe

Server:
Containers: 1
  Running: 1
  Paused: 0
  Stopped: 0
Images: 1
Server Version: 28.0.4
Storage Driver: overlayfs
  driver-type: io.containerd.snapshotter.v1
Logging Driver: json-file
Cgroup Driver: cgroupfs
Cgroup Version: 1
```

## 5. Docker inspect

```
C:\Users\DYP-ATU>docker inspect ea118cf8636
[
  {
    "Id": "ea118cf8636ef5b98ff39a29837d3ca2aeb398d3ad9b99b228e53f80600a234",
    "Created": "2025-05-09T04:26:13.813274292Z",
    "Path": "/docker-entrypoint.sh",
    "Args": [
      "nginx",
      "-g",
      "daemon off;"
    ],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 435,
      "ExitCode": 0,
      "Error": "",
      "StartedAt": "2025-05-09T04:26:14.13598374Z",
      "FinishedAt": "0001-01-01T00:00:00Z"
    },
    "Image": "sha256:c15da6c91de8d2f436196f3a768483ad32c258ed4e1beb3d367a27ed67253e66",
    "ResolvConfPath": "/var/lib/docker/containers/ea118cf8636ef5b98ff39a29837d3ca2aeb398d3ad9b99b228e53f80600a234/resolv.conf",
    "HostnamePath": "/var/lib/docker/containers/ea118cf8636ef5b98ff39a29837d3ca2aeb398d3ad9b99b228e53f80600a234/hostname",
    "HostsPath": "/var/lib/docker/containers/ea118cf8636ef5b98ff39a29837d3ca2aeb398d3ad9b99b228e53f80600a234/hosts",
    "LogPath": "/var/lib/docker/containers/ea118cf8636ef5b98ff39a29837d3ca2aeb398d3ad9b99b228e53f80600a234/log.json.log",
    "Name": "/webserver",
    "RestartCount": 0,
    "Driver": "overlayfs",
    "Platform": "linux",
    "MountLabel": "",
    "ProcessLabel": "",
    "AppArmorProfile": "",
    "ExecIDs": null,
    "HostConfig": {
      "Binds": null,
      "ContainerIDFile": "",
      "LogConfig": {
        "Type": "json-file",
        "Config": {}
      },
      "NetworkMode": "bridge",
      "PortBindings": {
        "80/tcp": [
          {
            "HostIp": "",
            "HostPort": "80"
          }
        ]
      }
    }
  }
]
```

## 6. Docker container

The screenshot shows the Docker Desktop application window. The top bar is blue with the Docker logo, 'docker desktop PERSONAL', a search bar, a 'Ctrl+K' button, and a 'Sign in' button. Below the top bar is a dark blue banner with a user icon and the text 'To access the latest features, sign in'. The left sidebar contains a list of navigation items: Containers (selected), Images, Volumes, Builds, Docker Hub, Docker Scout, and Extensions. The main content area is titled 'Containers' and includes a 'Give feedback' link. Below the title, it says 'View all your running containers and applications. Learn more'. Two summary cards are displayed: 'Container CPU usage' showing '0.00% / 1200% (12 CPUs available)' and 'Container memory usage' showing '10.84MB / 7.43GB'. A 'Show charts' link is to the right of the memory usage card. Below these cards is a search bar and a toggle switch for 'Only show running containers'. A table lists the running containers. The table has columns: Name, Container ID, Image, Port(s), CPU (%), Last state, and Actions. One container is listed: 'webserver' with ID 'ea1118cf8636', image 'nginx', port '80:80', CPU usage '0%', and last state '21 min'. The bottom status bar shows 'Engine running', system resources (RAM 0.97 GB, CPU 0.08%, Disk 1.39 GB used), a 'Terminal' button, and a 'New version available' notification.

**Containers** [Give feedback](#)

View all your running containers and applications. [Learn more](#)

Container CPU usage ⓘ  
0.00% / 1200% (12 CPUs available)

Container memory usage ⓘ  
10.84MB / 7.43GB [Show charts](#)

Search  Only show running containers

	Name	Container ID	Image	Port(s)	CPU (%)	Last state	Actions
<input type="checkbox"/>	webserver	ea1118cf8636	<a href="#">nginx</a>	<a href="#">80:80</a>	0%	21 min	<a href="#">Stop</a> <a href="#">Refresh</a> <a href="#">Delete</a>

Showing 1 item

**Walkthroughs** [X](#)

Engine running | RAM 0.97 GB CPU 0.08% Disk: 1.39 GB used (limit 1006.85 GB) [Terminal](#) [New version available](#)

