

Experiment No. 09

AIM: To study and implement Docker basics

THEORY:

Containerization is a lightweight virtualization technique that allows applications to run in isolated environments called containers. Unlike traditional virtual machines, containers share the host operating system's kernel, making them more efficient and faster to start. Docker is one of the most popular platforms for containerization.

Docker allows developers to package an application along with all its dependencies, libraries, and configuration files into a single unit called a Docker container. This ensures the application runs consistently across different environments—whether it's development, testing, or production. Docker uses a file called a *Dockerfile* to automate the creation of images, which are then used to spin up containers.

With Docker, scaling applications becomes simpler, and deployment is faster and more reliable. It also helps in reducing conflicts between environments and improves CI/CD pipelines.

In this experiment, we aim to understand how Docker works, how to build Docker images, and how to run and manage containers. Through hands-on implementation, we'll explore Docker commands and learn how containerization can streamline development workflows.

IMPLEMENTATION:

A terminal window with a dark background showing Docker commands and their output. The commands executed are 'docker -v', 'docker pull nginx:1.23', and 'docker images'. The output shows the Docker version, the pull progress for nginx:1.23, and a table of local Docker images.

```
/d/MiscRepos/sepm_lab/files git:(master)±9 (0.675s)
docker -v
Docker version 28.0.1, build 068a01e

/d/MiscRepos/sepm_lab/files git:(master)±9 (40.969s)
docker pull nginx:1.23
1.23: Pulling from library/nginx
9989f7b33228: Pull complete
f03b40093957: Pull complete
6c1a86118ade: Pull complete
a85095acb896: Pull complete
d24b987aa74e: Pull complete
0972072e0e8a: Pull complete
Digest: sha256:f5747a42e3adcb3168049d63278d7251d91185bb5111d2563d58729a5c9179b0
Status: Downloaded newer image for nginx:1.23
docker.io/library/nginx:1.23

/d/MiscRepos/sepm_lab/files git:(master)±9 (0.721s)
docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
nginx	1.23	f5747a42e3ad	22 months ago	214MB

Name: Harshi Lodha

Roll NO: 55

Batch: t13

```
/d/MiscRepos/sepm_lab/files git:(master)±9 (16.855s)
docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
6e989acdb798: Pull complete
97f5c0f51d43: Pull complete
5eaa34f5b0c2: Pull complete
417c4bccf534: Pull complete
e7e0ca015e55: Pull complete
c22eb46e871a: Pull complete
373fe654e984: Pull complete
Digest: sha256:124b44bfc9ccd1f3cedf4b592d4d1e8bddb78b51ec2ed5056c52d3692baebc19
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest

/d/MiscRepos/sepm_lab/files git:(master)±9 (1.127s)
docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 124b44bfc9cc 7 weeks ago 279MB
nginx 1.23 f5747a42e3ad 22 months ago 214MB
```

```
/d/MiscRepos/sepm_lab/files git:(master)±9
docker run nginx:1.23
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/04/02 13:34:51 [notice] 1#1: using the "epoll" event method
2025/04/02 13:34:51 [notice] 1#1: nginx/1.23.4
2025/04/02 13:34:51 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2025/04/02 13:34:51 [notice] 1#1: OS: Linux 5.15.167.4-microsoft-standard-WSL2
2025/04/02 13:34:51 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/04/02 13:34:51 [notice] 1#1: start worker processes
2025/04/02 13:34:51 [notice] 1#1: start worker process 29
2025/04/02 13:34:51 [notice] 1#1: start worker process 30
2025/04/02 13:34:51 [notice] 1#1: start worker process 31
2025/04/02 13:34:51 [notice] 1#1: start worker process 32
```

```
/d/MiscRepos/sepm_lab/files git:(master)±9 (2.813s)
docker run -d nginx:1.23
a8c8bd4b3b4912b37e3d40742e795a56fd722df027f0012e2c03c4199f77291

/d/MiscRepos/sepm_lab/files git:(master)±9 (0.784s)
docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
a8c8bd4b3b49 nginx:1.23 "/docker-entrypoint..." 8 seconds ago Up 6 seconds 80/tcp amazing_jeepsen

/d/MiscRepos/sepm_lab/files git:(master)±9 (0.647s)
docker logs a8c8bd4b3b49
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/04/02 13:40:12 [notice] 1#1: using the "epoll" event method
2025/04/02 13:40:12 [notice] 1#1: nginx/1.23.4
2025/04/02 13:40:12 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2025/04/02 13:40:12 [notice] 1#1: OS: Linux 5.15.167.4-microsoft-standard-WSL2
2025/04/02 13:40:12 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/04/02 13:40:12 [notice] 1#1: start worker processes
2025/04/02 13:40:12 [notice] 1#1: start worker process 29
2025/04/02 13:40:12 [notice] 1#1: start worker process 30
2025/04/02 13:40:12 [notice] 1#1: start worker process 31
2025/04/02 13:40:12 [notice] 1#1: start worker process 32

/d/MiscRepos/sepm_lab/files git:(master)±9
```

```
/d/MiscRepos/sepm_lab/files git:(master)±9
docker run nginx:latest
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/04/02 13:43:21 [notice] 1#1: using the "epoll" event method
2025/04/02 13:43:21 [notice] 1#1: nginx/1.27.4
2025/04/02 13:43:21 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2025/04/02 13:43:21 [notice] 1#1: OS: Linux 5.15.167.4-microsoft-standard-WSL2
2025/04/02 13:43:21 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/04/02 13:43:21 [notice] 1#1: start worker processes
2025/04/02 13:43:21 [notice] 1#1: start worker process 29
2025/04/02 13:43:21 [notice] 1#1: start worker process 30
2025/04/02 13:43:21 [notice] 1#1: start worker process 31
2025/04/02 13:43:21 [notice] 1#1: start worker process 32
```

```
/d/MiscRepos/sepm_lab/files git:(master)±9 (0.668s)
docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
b59d07d59184   nginx:latest  "/docker-entrypoint..."  11 seconds ago  Up 10 seconds  80/tcp       intelligent_beaver
a8c8bd4b3b49   nginx:1.23   "/docker-entrypoint..."  3 minutes ago   Up 3 minutes   80/tcp       amazing_jepsen

/d/MiscRepos/sepm_lab/files git:(master)±9
```

```
/d/MiscRepos/sepm_lab/files git:(master)±9 (0.775s)
docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
a8c8bd4b3b49   nginx:1.23   "/docker-entrypoint..."  6 minutes ago   Up 6 minutes   80/tcp       amazing_jepsen

/d/MiscRepos/sepm_lab/files git:(master)±9 (1.199s)
docker stop a8c8bd4b3b49
a8c8bd4b3b49

/d/MiscRepos/sepm_lab/files git:(master)±9 (0.668s)
docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES

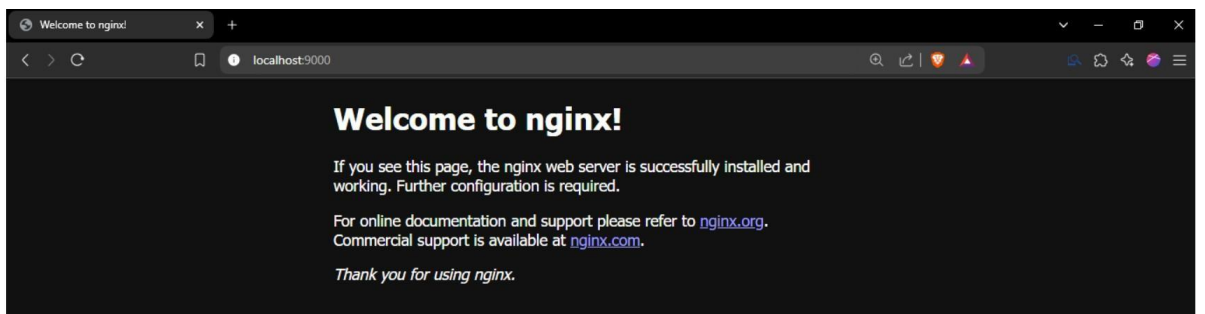
/d/MiscRepos/sepm_lab/files git:(master)±9
```

```
/d/MiscRepos/sepm_lab/files git:(master)±9 (1.164s)
docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
nginx         latest    124b44bfc9cc   7 weeks ago   279MB
nginx         1.23     f5747a42e3ad   22 months ago  214MB

/d/MiscRepos/sepm_lab/files git:(master)±9 (2.851s)
docker run -d -p 9000:80 nginx:1.23
e84b49b3ac88f8be69f82ce3fc6032c1294c29506389674099762f43d0c0fe93

/d/MiscRepos/sepm_lab/files git:(master)±9 (0.729s)
docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
e84b49b3ac88   nginx:1.23   "/docker-entrypoint..."  17 seconds ago  Up 15 seconds  0.0.0.0:9000->80/tcp  happy_torvalds

/d/MiscRepos/sepm_lab/files git:(master)±9
```



```
/d/MiscRepos/sepm_lab/files git:(master)±9 (1.145s)
docker logs e84b49b3ac88
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2025/04/02 13:48:40 [notice] 1#1: using the "epoll" event method
2025/04/02 13:48:40 [notice] 1#1: nginx/1.23.4
2025/04/02 13:48:40 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2025/04/02 13:48:40 [notice] 1#1: OS: Linux 5.15.167.4-microsoft-standard-WSL2
2025/04/02 13:48:40 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2025/04/02 13:48:40 [notice] 1#1: start worker processes
2025/04/02 13:48:40 [notice] 1#1: start worker process 30
2025/04/02 13:48:40 [notice] 1#1: start worker process 31
2025/04/02 13:48:40 [notice] 1#1: start worker process 32
2025/04/02 13:48:40 [notice] 1#1: start worker process 33
172.17.0.1 - - [02/Apr/2025:13:49:09 +0000] "GET / HTTP/1.1" 200 615 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/134.0.0.0 Safari/537.36" "-"
2025/04/02 13:49:09 [error] 31#31: *1 open() "/usr/share/nginx/html/favicon.ico" failed (2: No such file or directory), client: 172.17.0.1, server: localhost, request: "GET /favicon.ico HTTP/1.1", host: "localhost:9000", referer: "http://localhost:9000/"
172.17.0.1 - - [02/Apr/2025:13:49:09 +0000] "GET /favicon.ico HTTP/1.1" 404 555 "http://localhost:9000/" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/134.0.0.0 Safari/537.36" "-"

/d/MiscRepos/sepm_lab/files git:(master)±9
```

Name: Harshi Lodha

Roll NO: 55

Batch: t13

```

/d/MiscRepos/sepm_lab/files git:(master)±9 (0.728s)
docker ps -a

CONTAINER ID   IMAGE     COMMAND                  CREATED         STATUS      PORTS                    NAMES
e84b49b3ac88   nginx:1.23    "/docker-entrypoint..."  4 minutes ago   Up 4 minutes   0.0.0.0:9000->80/tcp      happy_torvalds
b59d8d759184   nginx:latest  "/docker-entrypoint..."  10 minutes ago   Exited (0) 7 minutes ago   intelligent_beaaver
a8c8bd4b3b49   nginx:1.23    "/docker-entrypoint..."  13 minutes ago   Exited (0) 6 minutes ago   amazing_jepsen
4ede9b099710   nginx:1.23    "/docker-entrypoint..."  18 minutes ago   Exited (0) 13 minutes ago   epic_mirzakhani

/d/MiscRepos/sepm_lab/files git:(master)±9 (3.44s)
docker stop happy_torvalds
happy_torvalds

/d/MiscRepos/sepm_lab/files git:(master)±9 (2.124s)
docker run --name web_app -d -p 9000:80 nginx:1.23
7427673945sec2a4857141364b221bd3042ecce05d0ebd96141161e79aa81ee35

/d/MiscRepos/sepm_lab/files git:(master)±9 (0.789s)
docker ps

CONTAINER ID   IMAGE     COMMAND                  CREATED         STATUS      PORTS                    NAMES
7427673945sec   nginx:1.23    "/docker-entrypoint..."  5 seconds ago   Up 4 seconds   0.0.0.0:9000->80/tcp      web_app

/d/MiscRepos/sepm_lab/files git:(master)√ ±9

```

```
aws [Option+S] Asia Pacific (Mumbai)

Amazon Linux 2023

https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-4-25 ~]$ sudo systemctl start docker
Failed to start docker.service: Unit docker.service not found.
[ec2-user@ip-172-31-4-25 ~]$ sudo yum install docker -y
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
109 kB/s | 15 kB

Package Architecture Version Repository
-----
Installing:
docker x86_64 25.0.8-1.amzn2023.0.1 amazonlinux
Installing dependencies:
containerd x86_64 1.7.27-1.amzn2023.0.1 amazonlinux
iptables-libs x86_64 1.8.8-3.amzn2023.0.2 amazonlinux
iptables-nft x86_64 1.8.8-3.amzn2023.0.2 amazonlinux
libcgroup x86_64 3.0-1.amzn2023.0.1 amazonlinux
libnetfilter_conntrack x86_64 1.0.8-2.amzn2023.0.2 amazonlinux
libnftnl x86_64 1.0.1-19.amzn2023.0.2 amazonlinux

i-0789a83885455376f (RDS-Experiment)
PublicIPs: 3.110.163.1 PrivateIPs: 172.31.4.25

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```



```
aws [Search] [Option+S] Asia Pacific (Mumbai)

Complete!
[ec2-user@ip-172-31-4-25 ~]$ sudo systemctl start docker
[ec2-user@ip-172-31-4-25 ~]$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; preset: disabled)
   Active: active (running) since Sun 2025-04-13 07:04:54 UTC; 11s ago
 TriggeredBy: ● docker.socket
    Docs: https://docs.docker.com
   Process: 27208 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
   Process: 27209 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
   Main PID: 27210 (dockerd)
     Tasks: 8
    Memory: 29.7M
       CPU: 264ms
   CGroup: /system.slice/docker.service
           └─27210 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nofile=32768:65536

Apr 13 07:04:54 ip-172-31-4-25.ap-south-1.compute.internal systemd[1]: Starting docker.service - Docker Application Container Engine
Apr 13 07:04:54 ip-172-31-4-25.ap-south-1.compute.internal dockerd[27210]: time="2025-04-13T07:04:54.243553265Z" level=info msg="Sta
Apr 13 07:04:54 ip-172-31-4-25.ap-south-1.compute.internal dockerd[27210]: time="2025-04-13T07:04:54.299559512Z" level=info msg="Loa
Apr 13 07:04:54 ip-172-31-4-25.ap-south-1.compute.internal dockerd[27210]: time="2025-04-13T07:04:54.680891728Z" level=info msg="Loa
Apr 13 07:04:54 ip-172-31-4-25.ap-south-1.compute.internal dockerd[27210]: time="2025-04-13T07:04:54.702039972Z" level=info msg="Doc
Apr 13 07:04:54 ip-172-31-4-25.ap-south-1.compute.internal dockerd[27210]: time="2025-04-13T07:04:54.702260732Z" level=info msg="Dae
Apr 13 07:04:54 ip-172-31-4-25.ap-south-1.compute.internal dockerd[27210]: time="2025-04-13T07:04:54.750954608Z" level=info msg="API
Apr 13 07:04:54 ip-172-31-4-25.ap-south-1.compute.internal systemd[1]: Started docker.service - Docker Application Container Engine.
lines 1-22/22 (END)
```

i-0789a83885455376f (RDS-Experiment)

PublicIPs: 3.110.163.1 PrivateIPs: 172.31.4.25

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```
aws [Search] [Option+S] Asia Pacific (Mumbai)

5f32ed3c3f27: Pull complete
0c8cc2f24a4d: Pull complete
0d27a8e86132: Pull complete
b35ca9a95db0: Pull complete
46a182df3db1: Pull complete
f5b1a7eb9e7: Pull complete
ff7978b844b1: Pull complete
Digest: sha256:f7c1cfff42a2f4a40b626b0d03f8b83bbc8ef3f88d0682cd43f395bf9e42966b
Status: Downloaded newer image for philippaul/node-mysql-app:02
docker.io/philippaul/node-mysql-app:02
[ec2-user@ip-172-31-4-25 ~]$ docker run --rm -p 80:3000 -e DB_HOST="database-shreezy.clsak8qycavh.ap-south-1.rds.amazonaws.com" -e
"admin" -e DB_PASSWORD="123456789" -d philippaul/node-mysql-app:02
docker: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://%2Fvar%2F
cker.sock/ping": dial unix /var/run/docker.sock: connect: permission denied.
See 'docker run --help'.
[ec2-user@ip-172-31-4-25 ~]$ sudo docker run --rm -p 80:3000 \
-e DB_HOST="database-shreezy.clsak8qycavh.ap-south-1.rds.amazonaws.com" \
-e DB_USER="admin" \
-e DB_PASSWORD="123456789" \
-d philippaul/node-mysql-app:02
3239e6a22b7d22d1e17ee326f7ddeec4016da731f84fe187681fa2b5aa30a58
[ec2-user@ip-172-31-4-25 ~]$ sudo docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
NAMES
3239e6a22b7d   philippaul/node-mysql-app:02        "docker-entrypoint.s..." About a minute ago Up 58 seconds  0.0.0.0:80->3000/tcp, ::
0/tcp        blissful_joliot
[ec2-user@ip-172-31-4-25 ~]$
```

i-0789a83885455376f (RDS-Experiment)

PublicIPs: 3.110.163.1 PrivateIPs: 172.31.4.25

CloudShell Feedback

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```
aws [Search] [Option+S] Stockholm Paul Philip

[ec2-user@ip-172-31-36-167 ~]$
[ec2-user@ip-172-31-36-167 ~]$ sudo docker run -it --rm mysql:8.0 mysql -h database-1.cls848ms4r8r.eu-north-1.rds.amazona
ws.com -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 181
Server version: 8.0.39 Source distribution

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

The image shows two screenshots from the AWS console. The top screenshot is a CloudShell terminal window with the MySQL monitor interface. It displays the MySQL prompt, connection details (id 181, version 8.0.39), and the output of the 'show databases;' command, which lists 'information_schema', 'my_app_db', 'mysql', 'performance_schema', and 'sys'. The bottom screenshot is the AWS RDS console for the 'database-shreezy' instance. It shows the 'Monitoring' tab with a summary of the instance (Status: Available, Role: Instance, Engine: MySQL Community, Region & AZ: ap-south-1b). A notification banner indicates that 'Database Insights is now available'. Below the banner, the 'CloudWatch (25)' section shows a search bar for metrics and a 'Monitoring' dropdown menu.

CloudShell Terminal Output:

```
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 181
Server version: 8.0.39 Source distribution

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| my_app_db |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.01 sec)

mysql>
```

AWS RDS Console - database-shreezy

Summary

DB identifier	Status	Role	Engine
database-shreezy	Available	Instance	MySQL Community

CPU 3.66%

Class db.t4g.micro

Current activity 0 Connections

Region & AZ ap-south-1b

Recommendations

Monitoring

Database Insights is now available
Database Insights combines database metrics and logs into a unified view in CloudWatch to speed up database troubleshooting. To access the Database Insights, select **Modify** to modify your database and enable Database Insights.

CloudWatch (25) Period: 5 minutes

Search by metric

CONCLUSION: Hence, we have successfully studied and implemented the basics of Docker.