

Docker intermediates:

Activity: Dockerizing MySQL with Custom Image and Port Publishing

```
Terminal + ▾ ×

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\sreev> mkdir mysqlprac

Directory: C:\Users\sreev

Mode                LastWriteTime         Length Name
----                -----           ----- 
d----        14-02-2026     10:06          mysqlprac

RAM: 1.95 GB CPU: 0.08% Disk: 5.82 GB used (limit 1006.85 GB) ➔ Terminal ⚡ Update available
```

```
Terminal + ▾ ×

Mode LastWriteTime Length Name
---- ----- ------
-a-- 14-02-2026 10:07 46 dockerfile

PS C:\Users\sreev\mysqlprac> docker build -t mysqlpract .
[+] Building 0.9s (5/5) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 83B
=> [internal] load metadata for docker.io/library/mysql:latest
=> [internal] load .dockerignore
docker:desktop-linux
          0.1s
          0.0s
          0.1s
          0.1s
          ↓

RAM 1.96 GB CPU 0.25% Disk: 5.82 GB used (limit 1006.85 GB) > Terminal ⓘ Update available
```

```
Terminal + ▾

Run 'docker run --help' for more information
PS C:\Users\sreev\mysqlprac> docker run -d -p 3307:3306 --name mysqlport1 -e MYSQL_ROOT_PASSWORD=rootpassword mysqlpract
0b39d36816409ac7852f334f712ef2ead0c7838e675607fa98833f48d770f18
PS C:\Users\sreev\mysqlprac> docker exec -it mysqlport1 mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 9.6.0 MySQL Community Server - GPL

Copyright (c) 2000, 2026, Oracle and/or its affiliates.

RAM 1.07 GB CPU 0.00% Disk 5.97 GB used (limit 1006.85 GB) > Terminal ⚡ Update available
```

```
Terminal

Server version: 9.6.0 MySQL Community Server - GPL

Copyright (c) 2000, 2026, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
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> █

RAM 1.96 GB CPU 0.75% Disk: 5.82 GB used (limit 1006.85 GB)
```

Activity: “Container-to-Container Communication Using Custom Dockerfiles and Bridge Network”

Terminal

```
PS C:\Users\sreev\customnetdemo> notepad dockerfile
PS C:\Users\sreev\customnetdemo> ls

Directory: C:\Users\sreev\customnetdemo

Mode                LastWriteTime         Length Name
----                -----           -----    -----
-a---- 14-02-2026 10:37                 79 dockerfile

RAM 1.13 GB CPU 0.08% Disk: 5.97 GB used (limit 1006.85 GB)
```

Terminal

```
PS C:\Users\sreev\customnetdemo> type dockerfile
FROM ubuntu:latest
RUN apt update && apt install -y iputils-ping
CMD ["bash"]
PS C:\Users\sreev\customnetdemo> docker build -t netdemo .
[+] Building 26.4s (6/6) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 116B
=> [internal] load metadata for docker.io/library/ubuntu:latest
=> [internal] load .dockerignore
RAM 1.13 GB CPU 0.25% Disk: 5.97 GB used (limit 1006.85 GB)
```

Terminal

```
=> [2/2] RUN apt update && apt install -y iputils-ping
=> exporting to image
=> exporting layers
=> => exporting manifest sha256:f74d565a85c8f9c43f01d5909f7038209ce21058aa84e6572d59b797eda60a99
=> => exporting config sha256:95d6733c7fb2ebfb8eb160c594350979fcf93f56dec14572195372603a2b6
=> => exporting attestation manifest sha256:b3ca0dff7071a1ed2893527fa2f2fa79c6649c4e5733c584e69ba29142f08fa7
=> => exporting manifest list sha256:91ba0f5d9b14312f2f011c0796f26374697b1a5d09fecdf67d614cf66a1c72f
=> => naming to docker.io/library/netdemo:latest
=> => unpacking to docker.io/library/netdemo:latest
PS C:\Users\sreev\customnetdemo> docker network create mynetwork
c8715ec2b823158f111653bc/01b512f8bdb8ad0f772989649b32cd63eced23e9
```

Terminal

```
Run 'docker --help' for more information
PS C:\Users\sreev\customnetdemo> docker run -dit --name container1 --network mynetwork netdemo
8874afa3be1edd917e698ddeabacc9acf2491f0885b1b9ac001759c5951ba
PS C:\Users\sreev\customnetdemo> docker run -dit --name container2 --network mynetwork netdemo
b6fa23432fd9a19d33a01025c0e0e41b025a1d9871577a57ff619c440ef7ddac0
PS C:\Users\sreev\customnetdemo> docker exec -it container1 bash
root@8874afa3be1a:/# ping container2
^C
root@8874afa3be1a:/# ping container2
PING container2 (172.19.0.3) 56(84) bytes of data.
64 bytes from container2.mynetwork (172.19.0.3): icmp_seq=1 ttl=64 time=1.00 ms
RAM 1.12 GB CPU 0.25% Disk: 5.97 GB used (limit 1006.85 GB)
```

Terminal

```
64 bytes from container2.mynetwork (172.19.0.3): icmp_seq=3 ttl=64 time=0.107 ms
64 bytes from container2.mynetwork (172.19.0.3): icmp_seq=4 ttl=64 time=0.205 ms
64 bytes from container2.mynetwork (172.19.0.3): icmp_seq=5 ttl=64 time=0.157 ms
64 bytes from container2.mynetwork (172.19.0.3): icmp_seq=6 ttl=64 time=0.123 ms
64 bytes from container2.mynetwork (172.19.0.3): icmp_seq=7 ttl=64 time=0.069 ms
64 bytes from container2.mynetwork (172.19.0.3): icmp_seq=8 ttl=64 time=0.145 ms
^C
--- container2 ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7137ms
rtt min/avg/max/mdev = 0.069/0.308/1.003/0.316 ms
root@8874afa3be1a:/#
```

Activity: Implementing Persistent Storage in Docker Using Volumes (MySQL Example)

```
Terminal
container2
PS C:\Users\sreev\customnetdemo> docker run -d --name mysqlnovol -e MYSQL_ROOT_PASSWORD=rootpassword mysql
062fd201cadad9bcab351c450407779d68aab869362151217644667d47a90de8
PS C:\Users\sreev\customnetdemo> docker exec -it mysqlnovol -u root -p
OCI runtime exec failed: exec failed: unable to start container process: exec: "-u": executable file not found in $PATH
PS C:\Users\sreev\customnetdemo> docker exec -it mysqlnovol mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 9.6.0 MySQL Community Server - GPL

RAM 1.57 GB CPU 9.34% Disk: 6.58 GB used (limit 1006.85 GB)
>_ Terminal ⚡ Update available
```

```
Terminal
mysql> CREATE DATABASE testdb;
Query OK, 1 row affected (0.018 sec)

mysql> USE testdb;
Database changed
mysql> CREATE TABLE users(id INT,name VARCHAR(50));
Query OK, 0 rows affected (0.065 sec)

mysql> INSERT INTO users VALUES (1,"vishnu")
-> ;
Query OK, 1 row affected (0.028 sec)

RAM 1.57 GB CPU 15.60% Disk: 6.58 GB used (limit 1006.85 GB)
>_ Terminal ⚡ Update available
```

```
Terminal
mysql> SELECT* from users
-> ;
+----+-----+
| id | name |
+----+-----+
| 1 | vishnu |
+----+-----+
1 row in set (0.001 sec)

mysql> exit
Bye

RAM 1.57 GB CPU 0.17% Disk: 6.58 GB used (limit 1006.85 GB)
>_ Terminal ⚡ Update available
```

```
Terminal
PS C:\Users\sreev\customnetdemo> docker rm -f mysqlnovol
mysqlnovol
PS C:\Users\sreev\customnetdemo> docker run -d --name mysqlnovol -e MYSQL_ROOT_PASSWORD=rootpassword mysql
dafa17139a4a3099404ea8814f89c1837098e600fb6a236d97c97ecae36a95a
PS C:\Users\sreev\customnetdemo> docker exec -it mysqlnovol mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 9.6.0 MySQL Community Server - GPL

Copyright (c) 2000, 2026, Oracle and/or its affiliates.

RAM 1.57 GB CPU 15.66% Disk: 6.58 GB used (limit 1006.85 GB)
>_ Terminal ⚡ Update available
```

```
Terminal
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.017 sec)

RAM 1.57 GB CPU 0.17% Disk: 6.58 GB used (limit 1006.85 GB)
>_ Terminal ⚡ Update available
```

```
Terminal
PS C:\Users\sreev\customnetdemo> docker volume create mysqldata
mysqldata
PS C:\Users\sreev\customnetdemo> docker volume ls
DRIVER VOLUME NAME
local 2b46a1e926b377fdafcc2bf47ec9a717cebe1428d930de2ad6bbcbe5ea908e
local 2f46deacd69ac1736e54c338ac2f788c0f42f5eb2f808343d53af44d00e6c964
local 88bf5d65b5c531b423b9abc79cf97ff05735514e26d11fb1c4db7ffdd2c53b8
local 292d36e61a3fb725b68a1c41f1edsf8d959552e31e01c755764dea00f01883
local 553d10dbc8bb109e4110db5ca8923300f8953e7188b9dab36f026209a63e734
local 7289a087504578219afe185cacfc14c7453f996c79f1b15bcc7677eb9253643
local a06a9de2a6c86004aec5446f449cf76bf91ebd327650368478c0443fe8cc1eaa

RAM 1.57 GB CPU 13.62% Disk: 6.58 GB used (limit 1006.85 GB)
>_ Terminal ⚡ Update available
```

```

Terminal
local  studentdata
PS C:\Users\sreev\customnetdemo> docker run -d --name mysqlwithvol -e MYSQL_ROOT_PASSWORD=rootpassword -v mysqldata:/var/lib/mysql mysql
3a0072cf60a29bfff61ab0e4cc6b968e1128850f86401f0be28be2dc91bd5353b
PS C:\Users\sreev\customnetdemo> docker exec -it mysqlwithvol u root -p
OCI runtime exec failed: exec failed: unable to start container process: exec: "-u": executable file not found in $PATH
PS C:\Users\sreev\customnetdemo> docker exec -it mysqlwithvol mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 9.6.0 MySQL Community Server - GPL

RAM 1.57 GB CPU 0.25% Disk: 6.58 GB used (limit 1006.85 GB)

```

```

Terminal
mysql> CREATE database testdb;
Query OK, 1 row affected (0.018 sec)

mysql> use testdb;
Database changed
mysql> CREATE TABLE users(id INT,name VARCHAR(50));
Query OK, 0 rows affected (0.057 sec)

mysql> INSERT INTO users VALUES(1,"vtishnu");
Query OK, 1 row affected (0.031 sec)

RAM 1.57 GB CPU 13.46% Disk: 6.58 GB used (limit 1006.85 GB)

```

```

Terminal
mysql> select* from users;
+----+-----+
| id | name |
+----+-----+
| 1 | vishnu |
+----+-----+
1 row in set (0.001 sec)

mysql> exit
Bye

RAM 1.57 GB CPU 14.06% Disk: 6.58 GB used (limit 1006.85 GB)

```

```

Terminal
PS C:\Users\sreev\customnetdemo> docker rm -f mysqlwithvol
mysqlwithvol
PS C:\Users\sreev\customnetdemo> docker run -d --name mysqlwithvol -e MYSQL_ROOT_PASSWORD=rootpassword -v mysqldata:/var/lib/mysql mysql
8ace28b476c9f9aa3777bb0d885d95e2ccb940d02c2b87a62a73eda88b6ed637
PS C:\Users\sreev\customnetdemo> docker exec -it mysqlwithvol mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 9.6.0 MySQL Community Server - GPL

Copyright (c) 2000, 2026, Oracle and/or its affiliates.

RAM 1.57 GB CPU 0.08% Disk: 6.58 GB used (limit 1006.85 GB)

```

```

Terminal
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
| testdb |
+-----+
5 rows in set (0.013 sec)

RAM 1.57 GB CPU 14.32% Disk: 6.58 GB used (limit 1006.85 GB)

```

Activity: Demonstrating Bind Mounts in Docker and Comparing with Named Volumes

```

mysqlwithvol
PS C:\Users\sreev\customnetdemo> mkdir C:\dockerdemoBindmounts

Directory: C:\

Mode LastWriteTime Length Name
---- -- - - -
d---- 14-02-2026 11:27 dockerdemoBindmounts

RAM 1.16 GB CPU 0.08% Disk: 6.58 GB used (limit 1006.85 GB)

```

Terminal

```

PS C:\Users\sreev\customnetdemo> docker run -dit -name binddemo -v C:/dockerdemoBindmounts:/data ubuntu
217d816b9947: d05410eebf068ae972c5f03130cb8ba170bb9303aef2360c4b6
PS C:\Users\sreev\customnetdemo> docker exec -it binddemo bash
root@217d816b9947:/# cd /data
root@217d816b9947:/data# echo "hello from container">>hello.txt
root@217d816b9947:/data# exit
exit

```

Terminal

```

PS C:\Users\sreev> cd C:\dockerdemoBindmounts
PS C:\dockerdemoBindmounts> ls

Directory: C:\dockerdemoBindmounts

Mode LastWriteTime Length Name
---- -- - - -
-a-- 14-02-2026 11:28 21 hello.txt

RAM 1.16 GB CPU 5.60% Disk: 6.58 GB used (limit 1006.85 GB)

```

Terminal

```

PS C:\dockerdemoBindmounts> note pad hello.txt
PS C:\dockerdemoBindmounts> docker exec -it binddemo bash
root@217d816b9947:/# cd /data
root@217d816b9947:/data# cat hello.txt
hello from container,hello from host
root@217d816b9947:/data# 

```

Activity: DNS Resolution Inside User-Defined Bridge

Terminal

```

PS C:\dockerdemoBindmounts> docker network create dnsdemo
226e4fbd751d22f0d54b55610bb8c9051996bd29d19ccbedc87009111cad70d
PS C:\dockerdemoBindmounts> docker run -dit -name containerA -network dnsdemo ubuntu
99fee649188861240766a3319ee5aaaf389cd1b52f00dd28a99b9b3de6761b1
PS C:\dockerdemoBindmounts> docker run -dit -name containerB -network dnsdemo ubuntu
f5da4c552c5703d1b086141ffdd3755ca92d4e56a2ce0bcbe0fb0d0415e3
PS C:\dockerdemoBindmounts> docker exec -it containerA bash
root@99fee6491888:'/ apt update && apt install iputils-ping
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [3115 kB]

```

Terminal

```

debconf: (Can't locate Term/ReadLine.pm in @INC (you may need to install the Term::ReadLine module) (@INC entries checked: /etc/perl /usr/local/lib/x86_64-linux-gnu/perl/5.38.2 /usr/local/share/perl/5.38.2 /usr/lib/x86_64-linux-gnu/perl5/5.38 /usr/share/perl5 /usr/lib/x86_64-linux-gnu/perl/5.38 /usr/local/lib/site_perl at /usr/share/perl5/Debconf/FrontEnd/Readline.pm line 8.)
debconf: falling back to frontend: Teletype
Setting up iputils-ping (3:20240117~ubuntu0.1) ...
root@99fee6491888:# ping containerB
PING containerB (172.20.0.3) 56(84) bytes of data.
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=1 ttl=64 time=1.40 ms
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=2 ttl=64 time=0.134 ms
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=3 ttl=64 time=0.084 ms

```

```

Terminal
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=3 ttl=64 time=0.084 ms
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=4 ttl=64 time=0.138 ms
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=5 ttl=64 time=0.145 ms
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=6 ttl=64 time=0.127 ms
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=7 ttl=64 time=0.121 ms
64 bytes from containerB.dnsdemo (172.20.0.3): icmp_seq=8 ttl=64 time=0.131 ms
^C
-- containerB ping statistics --
8 packets transmitted, 8 received, 0% packet loss, time 7149ms
rtt min/avg/max/mdev = 0.084/0.285/1.404/0.423 ms
root@99fee6491888:/#

```

RAM 1.00 GB CPU 0.00% Disk: 6.64 GB used (limit 1006.85 GB)

Terminal Update available

Practical: Building, Tagging, and Publishing a Docker Image to GitHub Container Registry with Token-Based Authentication

```

PS C:\Users\sreev> docker login ghcr.io
Username: Sreevishnu07
Password:
Login Succeeded
PS C:\Users\sreev>

```

RAM 0.88 GB CPU 0.08% Disk: 6.67 GB used (limit 1006.85 GB)

Terminal Update available

```

Terminal
PS C:\Users\sreev> mkdir ghcrpractical
Directory: C:\Users\sreev

Mode          LastWriteTime      Length Name
----          -----        ---- 
d----- 14-02-2026       16:07      ghcrpractical

PS C:\Users\sreev>

```

RAM 0.92 GB CPU 0.00% Disk: 6.67 GB used (limit 1006.85 GB)

Terminal Update available

```

Terminal
PS C:\Users\sreev> cd ghcrpractical
PS C:\Users\sreev\ghcrpractical> notepad dockerfile
PS C:\Users\sreev\ghcrpractical> notepad index.html
PS C:\Users\sreev\ghcrpractical>

Directory: C:\Users\sreev\ghcrpractical

Mode          LastWriteTime      Length Name
----          -----        ---- 
PS C:\Users\sreev\ghcrpractical>

```

RAM 0.92 GB CPU 0.17% Disk: 6.67 GB used (limit 1006.85 GB)

Terminal Update available

```

Terminal
PS C:\Users\sreev\ghcrpractical> ren dockerfile.txt dockerfile
PS C:\Users\sreev\ghcrpractical> docker build -t ghcr.io/Sreevishnu07/ghcrdemo:1.0 .
[+] Building 0.0s (0/0)
ERROR: failed to build: invalid tag "ghcr.io/Sreevishnu07/ghcrdemo:1.0": repository name must be lowercase
PS C:\Users\sreev\ghcrpractical> docker build -t ghcr.io/sreevishnu07/ghcrdemo:1.0 .
[+] Building 3.8s (9/9) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 193B
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [auth] library/nginx:pull token for registry-1.docker.io

```

RAM 0.92 GB CPU 21.91% Disk: 6.67 GB used (limit 1006.85 GB)

Terminal Update available

```

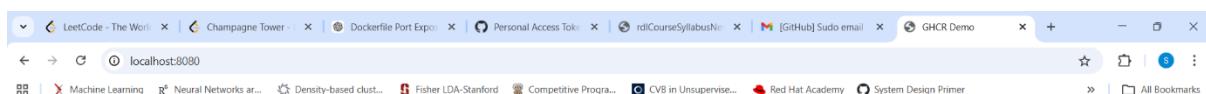
-> >> unpacking to ghcr.io/sreevishnu07/ghcrdemo:1.0
PS C:\Users\sreev\ghcrpractical> docker push ghcr.io/sreevishnu07/ghcrdemo:1.0
The push refers to repository [ghcr.io/sreevishnu07/ghcrdemo]
589002ba0eae: Pushed
589002ba0eae: Waiting
589002ba0eae: Pushed
bc5d04786e1: Pushed
6b7b6c7061b7: Pushed
5e7756927bef: Pushed
3e2c181db1b0: Pushed
e3be683b4801: Pushed
4f4fb700ef54: Pushed
RAM 0.92 GB CPU 14.27% Disk: 6.67 GB used (limit 1006.85 GB)

```

```

3e2c181db1b0: Pushed
e3be683b4801: Pushed
4f4fb700ef54: Pushed
399d0898a94e: Pushed
76c74cd9115: Pushed
955a8478f9ac: Pushed
1.0: digest: sha256:6fcf06326f0b8be1fb125233eb0ff8729583b365210d94fea220c78bc22d9de size: 856
PS C:\Users\sreev\ghcrpractical> docker run -d -p 8080:80 ghcr.io/sreevishnu07/ghcrdemo:1.0
3a3cbead7dfc82ccf363f08b511cf8162049bad883d85492bc77f80c483eea8e
PS C:\Users\sreev\ghcrpractical>
RAM 0.92 GB CPU 18.24% Disk: 6.67 GB used (limit 1006.85 GB)

```



GHCR Version 1.0.0

FINAL ARMAGEDDON AS WE GO: Deploying a Versioned Web App with Persistent Storage and Publishing to GHCR(Content Registry)

```

PS C:\Users\sreev> mkdir finaldemo

Directory: C:\Users\sreev

Mode LastWriteTime      Length Name
---- -- -           0       finaldemo

RAM 1.08 GB CPU 0.08% Disk: 6.67 GB used (limit 1006.85 GB)

```

```

PS C:\Users\sreev> cd finaldemo
PS C:\Users\sreev\finaldemo> notepad index.html
PS C:\Users\sreev\finaldemo> notepad dockerfile
PS C:\Users\sreev\finaldemo> ls

Directory: C:\Users\sreev\finaldemo

Mode LastWriteTime      Length Name
---- --           0       finaldemo

RAM 1.08 GB CPU 0.17% Disk: 6.67 GB used (limit 1006.85 GB)

```

```
Run 'docker buildx build --help' for more information
PS C:\Users\sreev\finaldemo> docker build -t ghcr.io/sreevishnu07/finaldemo:1.0.0 .
[+] Building 4.7s (10/10) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 2B4B
=> [internal] Load metadata for docker.io/library/nginx:alpine
=> [auth] library/nginx:pull token for registry-1.docker.io
=> [internal] load .dockerrcignore
=> => transferring context: 2B
=> [1/4] FROM docker.io/library/nginx:alpine@sha256:1d13701a5f9f3fb01aaa88cef2344d65b6b5bf6b7d9fa4cf0dca557a8d7702ba
=> => resolve docker.io/library/nginx:alpine@sha256:1d13701a5f9f3fb01aaa88cef2344d65b6b5bf6b7d9fa4cf0dca557a8d7702ba

docker:desktop-linux
  0.1s
  0.0s
  2.5s
  0.0s
  0.1s
  0.0s
  0.1s
  0.0s
  0.0s
  0.0s
```

```
Terminal + ▾ ×

"QwPriority": 0,
"NetworkID": "8d3028ed6fc91f9e4afb75db96deb7252b82b9ef2f0d938bde4c977d73e5f00",
"EndpointID": "0523713cdd7f748a70c8e74cf6829cb144243436ed862b0f05e1d00c4dc57d84",
"Gateway": "172.17.0.1",
"IPAddress": "172.17.0.2",
"MacAddress": "92:99:78:c8:f3:15",
"IPPrefixLen": 16,
"IPv6Gateway": "",
"GlobalIPv6Address": "",
"GlobalIPv6PrefixLen": 0,
"DNSNames": null

Windo... ×

RAM 1.08 GB CPU 0.08% Disk: 6.67 GB used (limit 1006.85 GB) ↴ Terminal ⓘ Update available
```

```
PS C:\Users\sreev\finaldemo> docker push ghcr.io/sreevishnu07/finaldemo:1.0.0
The push refers to repository [ghcr.io/sreevishnu07/finaldemo]
857446cd8637: Waiting
399d0898a94e: Waiting
857446cd8637: Pushed
bc5ad04786c1: Mounted from sreevishnu07/ghcrdemo
955a8478f9ac: Mounted from sreevishnu07/ghcrdemo
6d397a5a185: Mounted from sreevishnu07/ghcrdemo
6318326a7c80: Pushed
2f4e3a129580: Pushed
589002ba0eae: Mounted from sreevishnu07/ghcrdemo

RAM 1.08 GB CPU 0.08% Disk: 6.67 GB used (limit 1006.85 GB)
```

```
Terminal + ▾ ×

1.00: digest: sha256:a0b9ef354155925d26bb59373169e21020a5160289726701b0e3ba68f37c7106 size: 856
PS C:\Users\sreev\finaldem0> docker push ghcr.io\sreevishnu07\finaldem0:latest
The push refers to repository [ghcr.io\sreevishnu07\finaldem0]
6318326a7c80: Waiting
599002ba0eae: Waiting
399d0898a94c: Layer already exists
6b7b6c7061b7: Layer already exists
6d397a54a185: Layer already exists
4f4fb700cf54: Layer already exists
5e7756927bef: Layer already exists
857446cd8637: Already exists

RAM 1.08 GB CPU 0.00% Disk: 6.67 GB used (limit 1006.85 GB) ➔ Terminal ⓘ Update available
```

```
Terminal + ▾ ×

3e2c181db1b0: Layer already exists
latest: digest: sha256:a0b9ef354155925d26bb59373169e21020a5160289726701b0e3ba68f37c7106 size: 856
PS C:\Users\sreev\finaldemo> docker rm -f finaldemo
finaldemo
PS C:\Users\sreev\finaldemo> docker rmi ghcr.io/sreevishnu07/finaldemo:1.0.0
Untagged: ghcr.io/sreevishnu07/finaldemo:1.0.0
PS C:\Users\sreev\finaldemo> docker pull ghcr.io/sreevishnu07/finaldemo:1.0.0
1.0.0: Pulling from sreevishnu07/finaldemo
Digest: sha256:a0b9ef354155925d26bb59373169e21020a5160289726701b0e3ba68f37c7106
Status: Downloaded newer image for ghcr.io/sreevishnu07/finaldemo:1.0.0
ghcr.io/sreevishnu07/finaldemo:1.0.0

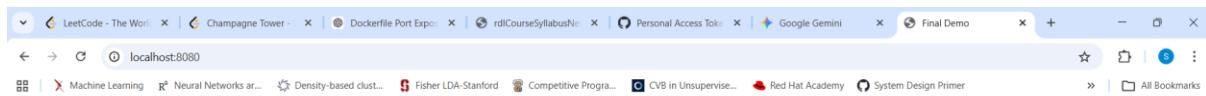
RAM 1.08 GB CPU 0.17% Disk: 6.67 GB used (limit 1006.85 GB) >_ Terminal ⓘ Update available
```

```
Terminal
PS C:\Users\sreev\finaldemo> ls

Directory: C:\Users\sreev\finaldemo

Mode                LastWriteTime     Length Name
----                -----           -----
-a---- 14-02-2026 17:46            245 dockerfile
-a---- 14-02-2026 17:39            278 index.html

RAM 1.08 GB CPU 0.00% Disk: 6.67 GB used (limit 1006.85 GB)
>_ Terminal ( Update available
```



Docker integrated practical

Version: 1.0.0

```
Terminal
<title>Final Demo</title>
</head>
<body>
<h1>Docker integrated practical</h1>
<p>Version: <span id="version"></span></p>
<script>
  document.getElementById("version").innerText="ENV_INJECTED";
</script>
</body>
</html>
PS C:\Users\sreev\finaldemo>

RAM 1.08 GB CPU 0.08% Disk: 6.67 GB used (limit 1006.85 GB)
>_ Terminal ( Update available
```

```
Terminal
PS C:\Users\sreev\finaldemo> cat dockerfile
FROM nginx:alpine
LABEL maintainer="svish07"
ENV APP_VERSION=1.0.0
WORKDIR /usr/share/nginx/html
COPY index.html .
RUN sed -i "s/ENV_INJECTED/$APP_VERSION/g" index.html
VOLUME ["/var/log/nginx"]
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
PS C:\Users\sreev\finaldemo>

RAM 1.08 GB CPU 0.08% Disk: 6.67 GB used (limit 1006.85 GB)
>_ Terminal ( Update available
```