

INT-332 Practical-5

Example 1: GHCR Demo Practical

```
PS C:\Users\sr302> mkdir ghcr-demo
```

```
Directory: C:\Users\sr302
```

Mode	LastWriteTime	Length	Name
----	-----	-----	----
d----	2/19/2026 12:31 PM		ghcr-demo

```
PS C:\Users\sr302> cd ghcr-demo
```

```
PS C:\Users\sr302\ghcr-demo> FROM nginx:alpine
```

```
At line:1 char:1
```

```
+ FROM nginx:alpine
```

```
+ ~~~~
```

```
The 'from' keyword is not supported in this version of the language.
```

```
+ CategoryInfo          : ParserError: (:) [], ParentContainsErrorRecordException
```

```
+ FullyQualifiedErrorId : ReservedKeywordNotAllowed
```

```
PS C:\Users\sr302\ghcr-demo> notepad dockerfile
```

```
PS C:\Users\sr302\ghcr-demo> notepad index.html
```

```
PS C:\Users\sr302\ghcr-demo> dir
```

```
Directory: C:\Users\sr302\ghcr-demo
```

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	2/19/2026 12:35 PM	66	dockerfile.txt
-a----	2/19/2026 12:37 PM	67	index.html

PS C:\Users\sr302\ghcr-demo>ren dockerfile.txt dockerfile

PS C:\Users\sr302\ghcr-demo> docker build -t ghcr.io/RajYadav23/ghcr-demo:latest

ERROR: docker: 'docker buildx build' requires 1 argument

Usage: docker buildx build [OPTIONS] PATH | URL | -

Run 'docker buildx build --help' for more information

PS C:\Users\sr302\ghcr-demo> docker build -t ghcr.io/RajYadav23/ghcr-demo:latest^C

PS C:\Users\sr302\ghcr-demo> dir

Directory: C:\Users\sr302\ghcr-demo

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	2/19/2026 12:35 PM	66	dockerfile
-a----	2/19/2026 12:41 PM	27	index.html

PS C:\Users\sr302\ghcr-demo> notepad dockerfile

PS C:\Users\sr302\ghcr-demo> docker build -t ghcr.io/rajyadav23/ghcr-demo:latest .

>>

[+] Building 0.4s (1/1) FINISHED

docker:desktop-linux

=> [internal] load build definition from dockerfile

0.1s

=> => transferring dockerfile: 103B 0.0s

dockerfile:2

1 | FROM nginx:alpine

2 | >>> COPY index.html/usr/share/nginx/html/index.html

ERROR: failed to build: failed to solve: dockerfile parse error on line 2: COPY requires at least two arguments, but only one was provided. Destination could not be determined

PS C:\Users\sr302\ghcr-demo> ^C

PS C:\Users\sr302\ghcr-demo>docker build -t ghcr.io/rajyadav23/ghcr-demo:latest .

>>

[+] Building 18.3s (8/8) FINISHED docker:desktop-linux

=> [internal] load build definition from dockerfile 0.1s

=> => transferring dockerfile: 108B 0.0s

=> [internal] load metadata for docker.io/library/nginx:alpine 4.9s

=> [auth] library/nginx:pull token for registry-1.docker.io 0.0s

=> [internal] load .dockerignore 0.1s

=> => transferring context: 2B 0.0s

=> [internal] load build context 0.2s

=> => transferring context: 64B 0.1s

=> [1/2] FROM

docker.io/library/nginx:alpine@sha256:1d13701a5f9f3fb01aaa88cef2344d65b6b5bf6b7d9fa4cf0 13.5s

=> => resolve

docker.io/library/nginx:alpine@sha256:1d13701a5f9f3fb01aaa88cef2344d65b6b5bf6b7d9fa4cf0d 0.1s

=> => sha256:6b7b6c7061b76cdb8601e18722d12ae3232f0ddcfa1d2983754abcc6ce0a8a83 954B / 954B
0.6s

=> => sha256:955a8478f9aceb66cbf2f579fa3c24e1af278d1fa3ffd3043d6260e21d2f7416 1.21kB / 1.21kB
1.0s

=> => sha256:6d397a54a185dd0b6638d1a3934b81daef7a140741e12697377d6279066f7ca7 1.40kB /
1.40kB 1.3s

=> => sha256:399d0898a94e0084f81499a3e3c29824357118c7ce551648ea1dbab813884661 404B / 404B
1.3s

=> => sha256:5e7756927bef33a266e1221356d5da8553139cb80bc5b1b3827010811d9ea268 20.24MB / 20.24MB 3.5s

=> => sha256:3e2c181db1b0985ce357c7aaf48ac615f30f392cd15d5c5ba34c4faa1f4f39a2 626B / 626B 0.7s

=> => sha256:bca5d04786e112d958f100a66f8257b2aeefc14b64d81e405c3c44acff2fb000 1.86MB / 1.86MB 2.5s

=> => sha256:589002ba0eaed121a1dbf42f6648f29e5be55d5c8a6ee0f8eaa0285cc21ac153 3.86MB / 3.86MB 3.1s

=> => extracting sha256:589002ba0eaed121a1dbf42f6648f29e5be55d5c8a6ee0f8eaa0285cc21ac153 0.4s

=> => extracting sha256:bca5d04786e112d958f100a66f8257b2aeefc14b64d81e405c3c44acff2fb000 0.4s

=> => extracting sha256:3e2c181db1b0985ce357c7aaf48ac615f30f392cd15d5c5ba34c4faa1f4f39a2 0.1s

=> => extracting sha256:6b7b6c7061b76cdb8601e18722d12ae3232f0ddcfa1d2983754abcc6ce0a8a83 0.1s

=> => extracting sha256:399d0898a94e0084f81499a3e3c29824357118c7ce551648ea1dbab813884661 0.1s

=> => extracting sha256:955a8478f9aceb66cbf2f579fa3c24e1af278d1fa3ffd3043d6260e21d2f7416 0.1s

=> => extracting sha256:6d397a54a185dd0b6638d1a3934b81daef7a140741e12697377d6279066f7ca7 0.1s

=> => extracting sha256:5e7756927bef33a266e1221356d5da8553139cb80bc5b1b3827010811d9ea268 8.8s

=> [2/2] COPY index.html /usr/share/nginx/html/index.html 0.1s

=> exporting to image 0.5s

=> => exporting layers 0.2s

=> => exporting manifest

sha256:59fa868a927b25270c86feb6c29742ce160abd9f2762292365f92ae359230f65 0.0s

=> => exporting config

sha256:91c4c9e0c8177a1bf46ffd26da55bda38911fba76f74c76423ce1feb96cf9d26 0.0s

=> => exporting attestation manifest

sha256:c4ba718be2b913085344abf76eb06b4da6732d875ad0f734000f3514c3 0.1s

=> => exporting manifest list

sha256:6536900dd62a6537da0d66f7d998eaa40b95c336778c6e268b4c2c61e4eb43b9 0.0s

```
=> => naming to ghcr.io/rajyadav23/ghcr-demo:latest 0.0s
=> => unpacking to ghcr.io/rajyadav23/ghcr-demo:latest 0.1s
```

```
PS C:\Users\sr302\ghcr-demo> docker login ghcr.io
```

Username: rajyadav23

Password:

Login Succeeded

```
PS C:\Users\sr302\ghcr-demo> docker images
```

```
>>
```

i Info → U In Use

IMAGEIDDISK USAGE CONTENT SIZE EXTRA

flask-user-app:latest	d518b01bf622	210MB	51.1MB	U
ghcr.io/rajyadav23/ghcr-demo:latest	6536900dd62a	92.5MB	26MB	
hello-world:latest	05813aedc15f	25.9kB	9.52kB	
nginx:latest	c881927c4077	240MB	65.7MB	U
python-flask-app:latest	a11e5a4931bf	210MB	51.1MB	U
raaz01/ub1:v1.1	a4453623f2f8	117MB	29.7MB	U
ubuntu:latest	cd1dba651b30	119MB	31.7MB	U

```
PS C:\Users\sr302\ghcr-demo> docker push ghcr.io/rajyadav23/ghcr-demo:latest
```

```
>>
```

The push refers to repository [ghcr.io/rajyadav23/ghcr-demo]

589002ba0eae: Pushed

bca5d04786e1: Pushed

6d397a54a185: Pushed

399d0898a94e: Pushed

955a8478f9ac: Pushed

2b15dfae3607: Pushed

67328a649c72: Pushed

6b7b6c7061b7: Pushed

3e2c181db1b0: Pushed

5e7756927bef: Pushed

**latest: digest: sha256:6536900dd62a6537da0d66f7d998eaa40b95c336778c6e268b4c2c61e4eb43b9
size: 856**

PS C:\Users\sr302\ghcr-demo> docker pull ghcr.io/rajyadav23/ghcr-demo:latest

>>

latest: Pulling from rajyadav23/ghcr-demo

Digest: sha256:6536900dd62a6537da0d66f7d998eaa40b95c336778c6e268b4c2c61e4eb43b9

Status: Image is up to date for ghcr.io/rajyadav23/ghcr-demo:latest

ghcr.io/rajyadav23/ghcr-demo:latest

PS C:\Users\sr302\ghcr-demo> docker run -p 8080:80 ghcr.io/rajyadav23/ghcr-demo: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

2026/02/19 17:21:31 [notice] 1#1: using the "epoll" event method

2026/02/19 17:21:31 [notice] 1#1: nginx/1.29.5

2026/02/19 17:21:31 [notice] 1#1: built by gcc 15.2.0 (Alpine 15.2.0)

2026/02/19 17:21:31 [notice] 1#1: OS: Linux 6.6.87.2-microsoft-standard-WSL2

2026/02/19 17:21:31 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576

2026/02/19 17:21:31 [notice] 1#1: start worker processes

2026/02/19 17:21:31 [notice] 1#1: start worker process 30

2026/02/19 17:21:31 [notice] 1#1: start worker process 31

2026/02/19 17:21:31 [notice] 1#1: start worker process 32

2026/02/19 17:21:31 [notice] 1#1: start worker process 33

2026/02/19 17:21:31 [notice] 1#1: start worker process 34

2026/02/19 17:21:31 [notice] 1#1: start worker process 35

2026/02/19 17:21:31 [notice] 1#1: start worker process 36

2026/02/19 17:21:31 [notice] 1#1: start worker process 37

2026/02/19 17:21:52 [notice] 1#1: signal 2 (SIGINT) received, exiting

2026/02/19 17:21:52 [notice] 31#31: exiting

2026/02/19 17:21:52 [notice] 30#30: exiting

2026/02/19 17:21:52 [notice] 31#31: exit

2026/02/19 17:21:52 [notice] 30#30: exit

2026/02/19 17:21:52 [notice] 32#32: exiting

2026/02/19 17:21:52 [notice] 32#32: exit

2026/02/19 17:21:52 [notice] 35#35: exiting

2026/02/19 17:21:52 [notice] 33#33: exiting

2026/02/19 17:21:52 [notice] 35#35: exit

2026/02/19 17:21:52 [notice] 33#33: exit

2026/02/19 17:21:52 [notice] 34#34: exiting

2026/02/19 17:21:52 [notice] 37#37: exiting

2026/02/19 17:21:52 [notice] 36#36: exiting

2026/02/19 17:21:52 [notice] 37#37: exit

2026/02/19 17:21:52 [notice] 36#36: exit

2026/02/19 17:21:52 [notice] 34#34: exit

2026/02/19 17:21:52 [notice] 1#1: signal 14 (SIGALRM) received

2026/02/19 17:21:52 [notice] 1#1: signal 17 (SIGCHLD) received from 31

2026/02/19 17:21:52 [notice] 1#1: worker process 31 exited with code 0

2026/02/19 17:21:52 [notice] 1#1: signal 29 (SIGIO) received

2026/02/19 17:21:52 [notice] 1#1: signal 17 (SIGCHLD) received from 37

2026/02/19 17:21:52 [notice] 1#1: worker process 33 exited with code 0

2026/02/19 17:21:52 [notice] 1#1: worker process 37 exited with code 0

```
2026/02/19 17:21:52 [notice] 1#1: signal 29 (SIGIO) received
2026/02/19 17:21:52 [notice] 1#1: signal 17 (SIGCHLD) received from 34
2026/02/19 17:21:52 [notice] 1#1: worker process 32 exited with code 0
2026/02/19 17:21:52 [notice] 1#1: worker process 34 exited with code 0
2026/02/19 17:21:52 [notice] 1#1: worker process 35 exited with code 0
2026/02/19 17:21:52 [notice] 1#1: signal 29 (SIGIO) received
2026/02/19 17:21:52 [notice] 1#1: signal 17 (SIGCHLD) received from 35
2026/02/19 17:21:52 [notice] 1#1: signal 17 (SIGCHLD) received from 36
2026/02/19 17:21:52 [notice] 1#1: worker process 36 exited with code 0
2026/02/19 17:21:52 [notice] 1#1: signal 29 (SIGIO) received
2026/02/19 17:21:52 [notice] 1#1: signal 17 (SIGCHLD) received from 30
2026/02/19 17:21:52 [notice] 1#1: worker process 30 exited with code 0
2026/02/19 17:21:52 [notice] 1#1: exit
PS C:\Users\sr302\ghcr-demo> ^C
PS C:\Users\sr302\ghcr-demo>docker run -d -p 8080:80 --name ghcr-test ghcr.io/rajyadav23/ghcr-
demo:latest
>>
ae04a14aa2eb9c3efa3b054fb80c7c067e561c0efe7975ddcb1280708f222ad4
PS C:\Users\sr302\ghcr-demo> ^C
PS C:\Users\sr302\ghcr-demo> project>
```

Output



GHCR Demo Success

☰  rajyadav23

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