

# Cloud Computing

## LAB 4

NAME: AMOGH SUNIL

SRN: PES2UG23CS057

---

Github link :

<https://github.com/stealthwhizz/Cloud-Computing-Lab/tree/main/CC-Lab4>

SS1:

```
(whiz@whizzy)-[/mnt/c/Users/whizy/PESU/SEM6/PES2UG23CS057/Cloud-Computing-Lab/CC-Lab4]
$ export SRN=PES2UG23CS057

(whiz@whizzy)-[/mnt/c/Users/whizy/PESU/SEM6/PES2UG23CS057/Cloud-Computing-Lab/CC-Lab4]
$ echo $SRN
PES2UG23CS057

(whiz@whizzy)-[/mnt/c/Users/whizy/PESU/SEM6/PES2UG23CS057/Cloud-Computing-Lab/CC-Lab4]
$ export PS1="\u@$PES2UG23CS057 \W]\$ "

[whiz@ CC-Lab4]$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
Digest: sha256:05813aedc15fb7b4d732e1be879d3252c1c9c25d885824f6295cab4538cb85cd
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/

[whiz@ CC-Lab4]$
```

SS2:

```
PES2UG23CS057 CC-Lab4
$ docker-compose version
Docker Compose version v2.40.2-desktop.1
```

SS3:

```
PES2UG23CS057 CC-Lab4
$ docker run -d --name rabbitmq rabbitmq:3-management
Unable to find image 'rabbitmq:3-management' locally
3-management: Pulling from library/rabbitmq
7084ac8f4ab6: Pull complete
14e6209d5fa8: Pull complete
3fad669ef11: Pull complete
20043066d3d5: Pull complete
d686b50ce172: Pull complete
f4e7f62f4b80: Pull complete
d63c4408fdb7: Pull complete
5e1c03b67a78: Pull complete
efa05c660812: Pull complete
beb0d870d438: Pull complete
Digest: sha256:e582c0bc7766f3342496d8485efb5a1df782b5ce3886ad017e2eaae442311f69
Status: Downloaded newer image for rabbitmq:3-management
a87f2171405590f29791d33506b88c9cbf5753407f49ff4cd5db114829000c78

PES2UG23CS057 CC-Lab4
$ sudo docker ps
[sudo] password for whiz:
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                                     NAMES
a87f21714055   rabbitmq:3-management              "docker-entrypoint.s..." About a minute ago Up About a minute 4369/tcp, 5671-5672/tcp, 15671-15672/tcp, 15691-15692/tcp, 25672/tcp rabbitmq

PES2UG23CS057 CC-Lab4
$ docker ps -a | grep rabbitmq
a87f21714055   rabbitmq:3-management              "docker-entrypoint.s..." 2 minutes ago Up 2 minutes 4369/tcp, 5671-5672/tcp, 15671-15672/tcp, 15691-15692/tcp, 25672/tcp rabbitmq
```

SS4:

```
PES2UG23CS057 CC-Lab4
$ docker build -t chat-app .
[+] Building 12.5s (11/11) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 323B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/5] FROM docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338d3060f261f53f144965f755599aab1acda1e13cf1731b1b
=> => resolve docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338d3060f261f53f144965f755599aab1acda1e13cf1731b1b
=> sha256:38513bd7256313495cdd83b3b0915a633cfa475dc2a07072ab2c8d191020ca5d 29.78MB / 29.78MB
=> sha256:fc74430849022d13b0d44b8969a953f842f59c6e9d1a0c2c83d710affa286c08 13.88MB / 13.88MB
=> sha256:b3ec39b36ae8c03a3e09854de4ec4aa08381dfed84a9daa075048c2e3df3881d 1.29MB / 1.29MB
=> sha256:ea56f685404adf81680322f152d2cfec62115b30dda481c2c450078315beb508 251B / 251B
=> => extracting sha256:38513bd7256313495cdd83b3b0915a633cfa475dc2a07072ab2c8d191020ca5d
=> => extracting sha256:b3ec39b36ae8c03a3e09854de4ec4aa08381dfed84a9daa075048c2e3df3881d
=> => extracting sha256:fc74430849022d13b0d44b8969a953f842f59c6e9d1a0c2c83d710affa286c08
=> => extracting sha256:ea56f685404adf81680322f152d2cfec62115b30dda481c2c450078315beb508
=> [internal] load build context
=> => transferring context: 4.17kB
=> [2/5] RUN pip install pika
=> [3/5] WORKDIR /app
=> [4/5] COPY chat.py .
=> [5/5] RUN mkdir -p /app/data
=> => exporting to image
=> => exporting layers
=> => exporting manifest sha256:227cca35b1c5fd3759d33d60554f7c24bb9fc3fb0525c60f4b993e3002db13fa
=> => exporting config sha256:f3432805801b8701d6382d76b9d4d5b1659e3eff0793cded8aba9b7dc5074d9f
=> => exporting attestation manifest sha256:73355c25b9ed9d3895a0cea8b68ef127e258b3a8a6a88716be21b54787a35327
=> => exporting manifest list sha256:204cacf2c3c57c8b4a8ae7a92973fd0855dac374f61a0cb5e5fa4533d06825f35
=> => naming to docker.io/library/chat-app:latest
=> => unpacking to docker.io/library/chat-app:latest

PES2UG23CS057 CC-Lab4
$ docker images
REPOSITORY      TAG          IMAGE ID          CREATED          SIZE
chat-app        latest       204cacf2c3c5     57 seconds ago  196MB
stealthwhizz/spam-web-app-pes2ug23cs057  v1          49bb7e06771b     9 days ago      541MB
rabbitmq        3-management e582c0bc7766     2 months ago    389MB
jenkins/jenkins  lts         f2519b99350f     3 months ago    820MB
hello-world     latest      05813aedc15f     6 months ago    20.3kB
```

PES2UG23CS057 CC-Lab4

\$ docker run -it --name user-a chat-app

— No Previous Chat History —

— Chat Started (unknown-user connecting to localhost) —

RabbitMQ not ready, retrying... (1/5)

RabbitMQ not ready, retrying... (1/5)

RabbitMQ not ready, retrying... (2/5) RabbitMQ not ready, retrying... (2/5)

RabbitMQ not ready, retrying... (3/5)

RabbitMQ not ready, retrying... (3/5)

RabbitMQ not ready, retrying... (4/5)

RabbitMQ not ready, retrying... (4/5)

RabbitMQ not ready, retrying... (5/5)

RabbitMQ not ready, retrying... (5/5)

ERROR: Could not connect to RabbitMQ at localhost

Falling back to standalone mode...

---

---

STANDALONE MODE (No RabbitMQ)

---

---

— No Previous Chat History —

Messages will not be sent to any other container.

Type message (standalone):

ERROR: Could not connect to RabbitMQ at localhost

i am amogh

Sent by unknown-user (standalone): i am amogh

Type message (standalone): im Batman

Sent by unknown-user (standalone): im Batman

Type message (standalone):

## SS5: User A

```
PES2UG23CS057 CC-Lab4
$ docker network create chat-net
ab5179218bc0e60a3d7c0fc18e93e0b80eecffc4a6b299dd69f33ae77aff6573

PES2UG23CS057 CC-Lab4
$ docker rm -f user-a rabbitmq
user-a
rabbitmq

PES2UG23CS057 CC-Lab4
$ docker run -d --name rabbitmq --network chat-net rabbitmq:3-management
fccd8a56563bbb416dcf3e37cf2d556ef39c9787a3940992b1147b61ecdef6ce

PES2UG23CS057 CC-Lab4
$ docker ps
CONTAINER ID   IMAGE                  COMMAND                  CREATED        STATUS        PORTS                                                                                                     NAMES
fccd8a56563b  rabbitmq:3-management  "docker-entrypoint.s..."  4 seconds ago  Up 3 seconds  4369/tcp, 5671-5672/tcp, 15671-15672/tcp, 15691-15692/tcp, 25672/tcp  rabbitmq

PES2UG23CS057 CC-Lab4
$ |
```

```
PES2UG23CS057 CC-Lab4
$ docker run -it --name user-a \
  --network chat-net \
  -e RABBIT_HOST=rabbitmq \
  -e QUEUE_NAME=queue_a \
  -e TARGET_QUEUE=queue_b \
  chat-app
```

— No Previous Chat History —

— Chat Started (unknown-user connecting to rabbitmq) —

```
Type message: Hello
Sent by unknown-user: Hello
Type message: I am Batman
Sent by unknown-user: I am Batman
Type message: |
```

SS6: USER A & B

```
PES2UG23CS057 CC-Lab4
$ docker run -it --name user-b \
  --network chat-net \
  -e RABBIT_HOST=rabbitmq \
  -e QUEUE_NAME=queue_b \
  -e TARGET_QUEUE=queue_a \
  chat-app

— No Previous Chat History —

— Chat Started (unknown-user connecting to rabbitmq) —
Type message:
Received from unknown-user: Hello
Type message:
Received from unknown-user: I am Batman
Type message: Hello
Sent by unknown-user: Hello
Type message: PES is the best College
Sent by unknown-user: PES is the best College
Type message: HI, This is PES2UG23CS057
Sent by unknown-user: HI, This is PES2UG23CS057
Type message: |

PES2UG23CS057 CC-Lab4
$ docker network create chat-net
ab5179218bc0e60a3d7c0fc18e93e0b80eecffc4a6b299dd69f33ae77aff6573

PES2UG23CS057 CC-Lab4
$ docker rm -f user-a rabbitmq
user-a
rabbitmq

PES2UG23CS057 CC-Lab4
$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS
PORTS
fccd8a56563b   rabbitmq:3-management              "docker-entrypoint.s..." 4 seconds ago  Up 3 seconds
4369/tcp, 5671-5672/tcp, 15671-15672/tcp, 15691-15692/tcp, 25672/tcp   rabbitmq

PES2UG23CS057 CC-Lab4
$ ^C

PES2UG23CS057 CC-Lab4
$ docker run -it --name user-a \
  --network chat-net \
  -e RABBIT_HOST=rabbitmq \
  -e QUEUE_NAME=queue_a \
  -e TARGET_QUEUE=queue_b \
  chat-app

— No Previous Chat History —

— Chat Started (unknown-user connecting to rabbitmq) —
Type message: Hello
Sent by unknown-user: Hello
Type message: I am Batman
Sent by unknown-user: I am Batman
Type message:
Received from unknown-user: Hello
Type message:
Received from unknown-user: PES is the best College
Type message:
Received from unknown-user: HI, This is PES2UG23CS057
Type message: |
```

SS7:

```
PES2UG23CS057 CC-Lab4
$ docker rm user-a user-b rabbitmq
user-a
user-b
rabbitmq

PES2UG23CS057 CC-Lab4
$ docker network rm chat-net
chat-net

PES2UG23CS057 CC-Lab4
$
```

SS8:

```
PES2UG23CS057 CC-Lab4
$ ls
chat.py  docker-compose.yml  Dockerfile

PES2UG23CS057 CC-Lab4
$ docker compose up rabbitmq
WARN[0000] /mnt/c/Users/whizy/PESU/SEM6/PES2UG23CS057/Cloud-Computing-Lab/CC-Lab4/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 2/2
  ✓ Network cc-lab4_chat-net      Created
  ✓ Container cc-lab4-rabbitmq-1  Created
Attaching to rabbitmq-1
rabbitmq-1 | 2026-02-05 14:47:35.839841+00:00 [notice] <0.44.0> Application syslog exited with reason: stopped
rabbitmq-1 | 2026-02-05 14:47:35.845791+00:00 [notice] <0.254.0> Logging: switching to configured handler(s); following messages may not be visible in this log output
rabbitmq-1 | 2026-02-05 14:47:35.846590+00:00 [notice] <0.254.0> Logging: configured log handlers are now ACTIVE
rabbitmq-1 | 2026-02-05 14:47:35.855706+00:00 [info] <0.254.0> ra: starting system quorum_queues
rabbitmq-1 | 2026-02-05 14:47:35.855784+00:00 [info] <0.254.0> starting Ra system: quorum_queues in directory: /var/lib/rabbitmq/mnesia/rabbit@c41ed3fb7d8f/quorum/rabbit@c41ed3fb7d8f
rabbitmq-1 | 2026-02-05 14:47:35.908198+00:00 [info] <0.268.0> ra system 'quorum_queues' running pre init for 0 registered servers
rabbitmq-1 | 2026-02-05 14:47:35.917284+00:00 [info] <0.269.0> ra: meta data store initialised for system quorum_queues. 0 record(s) recovered
rabbitmq-1 | 2026-02-05 14:47:35.930410+00:00 [notice] <0.274.0> WAL: ra_log_wal init, open tbls: ra_log_open_mem_tables, closed tbls: ra_log_closed_mem_tables
rabbitmq-1 | 2026-02-05 14:47:35.943830+00:00 [info] <0.254.0> ra: starting system coordination
rabbitmq-1 | 2026-02-05 14:47:35.943892+00:00 [info] <0.254.0> starting Ra system: coordination in directory: /var/lib/rabbitmq/mnesia/rabbit@c41ed3fb7d8f/coordination/rabbit@c41ed3fb7d8f
rabbitmq-1 | 2026-02-05 14:47:35.945475+00:00 [info] <0.282.0> ra system 'coordination' running pre init for 0 registered servers
rabbitmq-1 | 2026-02-05 14:47:35.946315+00:00 [info] <0.283.0> ra: meta data store initialised for system coordination. 0 record(s) recovered
rabbitmq-1 | 2026-02-05 14:47:35.946463+00:00 [notice] <0.288.0> WAL: ra_coordination_log_wal init, open tbls: ra_coordination_log_open_mem_tables, closed tbls: ra_coordination_log_closed_mem_tables
rabbitmq-1 | 2026-02-05 14:47:35.948642+00:00 [info] <0.254.0> ra: starting system coordination
rabbitmq-1 | 2026-02-05 14:47:35.948694+00:00 [info] <0.254.0> starting Ra system: coordination in directory: /var/lib/rabbitmq/mnesia/rabbit@c41ed3fb7d8f/coordination/rabbit@c41ed3fb7d8f
rabbitmq-1 | 2026-02-05 14:47:36.029318+00:00 [info] <0.254.0> Waiting for Khepri leader for 30000 ms, 9 retries left
rabbitmq-1 | 2026-02-05 14:47:36.034378+00:00 [notice] <0.292.0> RabbitMQ metadata store: candidate → leader in term: 1 machine version: 1
rabbitmq-1 | 2026-02-05 14:47:36.044830+00:00 [info] <0.254.0> Khepri leader elected
rabbitmq-1 | 2026-02-05 14:47:36.044947+00:00 [info] <0.254.0> Waiting for Khepri projections for 30000 ms, 9 retries left
rabbitmq-1 | 2026-02-05 14:47:36.290289+00:00 [info] <0.254.0>
rabbitmq-1 | 2026-02-05 14:47:36.290289+00:00 [info] <0.254.0> Starting RabbitMQ 3.13.7 on Erlang 26.2.5.16 [jit]
rabbitmq-1 | 2026-02-05 14:47:36.290289+00:00 [info] <0.254.0> Copyright (c) 2007–2024 Broadcom Inc and/or its subsidiaries
rabbitmq-1 | 2026-02-05 14:47:36.290289+00:00 [info] <0.254.0> Licensed under the MPL 2.0. Website: https://rabbitmq.com
rabbitmq-1 |
rabbitmq-1 | ## ## RabbitMQ 3.13.7
rabbitmq-1 | ## ##
rabbitmq-1 | ##### Copyright (c) 2007–2024 Broadcom Inc and/or its subsidiaries
rabbitmq-1 | ##### ##
rabbitmq-1 | ##### Licensed under the MPL 2.0. Website: https://rabbitmq.com
rabbitmq-1 |
rabbitmq-1 | Erlang: 26.2.5.16 [jit]
rabbitmq-1 | TLS Library: OpenSSL - OpenSSL 3.1.8 11 Feb 2025
rabbitmq-1 | Release series support status: see https://www.rabbitmq.com/release-information
rabbitmq-1 |
rabbitmq-1 | Doc guides: https://www.rabbitmq.com/docs
```

SS9:

```
PES2UG23CS057 CC-Lab4
$ docker compose run --rm user-a
WARN[0000] /mnt/c/Users/whizy/PESU/SEM6/PES2UG23CS057/Cloud-Computing-Lab/CC-Lab4/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Creating 1/1
  ✓ Container cc-lab4-rabbitmq-1 Running
[+] Building 3.8s (13/13) FINISHED
=> [internal] load local bake definitions
=> reading from stdin 593B
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 323B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> transferring context: 2B
=> [1/5] FROM docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338d3060f261f53f144965f755599aabb1acda1e13cf1731b1b
=> resolve docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338d3060f261f53f144965f755599aabb1acda1e13cf1731b1b
=> [internal] load build context
=> transferring context: 29B
=> CACHED [2/5] RUN pip install pika
=> CACHED [3/5] WORKDIR /app
=> CACHED [4/5] COPY chat.py .
=> CACHED [5/5] RUN mkdir -p /app/data
=> exporting to image
=> exporting layers
=> exporting manifest sha256:65742e304f3aedd52f9065e44ae0f63f9b7d901c3feb197710c0ec427bfdd44e
=> exporting config sha256:76be42ada7718c6062d3efc53bb7ce99429ebccfb6f21642dd235ea8f4e8e4d8
=> exporting attestation manifest sha256:9118035ac5025d4f5fdf3cc3b92016872706510f879358af8f5ef8fa7449c493
=> exporting manifest list sha256:14716527c29c3d61111e816ca3d4d3f804bc0dc394038b20b2da461cb78001d3
=> naming to docker.io/library/cc-lab4-user-a:latest
=> unpacking to docker.io/library/cc-lab4-user-a:latest
=> resolving provenance for metadata file

— No Previous Chat History —

— Chat Started (user-a connecting to rabbitmq) —
Type message: Hello, Im Batman
Sent by user-a: Hello, Im Batman
Type message:
```

SS10:

```
PES2UG23CS057 CC-Lab4
$ docker compose run --rm user-b
WARN[0000] /mnt/c/Users/whizy/PESU/SEM6/PES2UG23CS057/Cloud-Computing-Lab/CC-Lab4/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Creating 1/1
  ✓ Container cc-lab4-rabbitmq-1 Running 0.0s
[+] Building 2.2s (12/12) FINISHED
  => [internal] load local bake definitions 0.0s
  => => reading from stdin 593B 0.0s
  => [internal] load build definition from Dockerfile 0.0s
  => => transferring dockerfile: 323B 0.0s
  => [internal] load metadata for docker.io/library/python:3.9-slim 1.3s
  => [internal] load .dockerignore 0.0s
  => => transferring context: 2B 0.0s
  => [1/5] FROM docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338d3060f261f53f144965f755599aab1acd1e13cf1731b1b 0.0s
  => => resolve docker.io/library/python:3.9-slim@sha256:2d97f6910b16bd338d3060f261f53f144965f755599aab1acd1e13cf1731b1b 0.0s
  => [internal] load build context 0.0s
  => => transferring context: 29B 0.0s
  => CACHED [2/5] RUN pip install pika 0.0s
  => CACHED [3/5] WORKDIR /app 0.0s
  => CACHED [4/5] COPY chat.py . 0.0s
  => CACHED [5/5] RUN mkdir -p /app/data 0.0s
  => exporting to image 0.1s
  => => exporting layers 0.0s
  => => exporting manifest sha256:6dd5af96c78b4d62ffc2cd46055eddd5bf327db02c99fad7916588be4de256ef 0.0s
  => => exporting config sha256:5ba0f331b207d8cba9806cad2a7af92edcc91c82438ca5e907b162c473fbaa9c 0.0s
  => => exporting attestation manifest sha256:43ad81cedee4cf0620fa3bae410262fa92cad3c4866561e029297986d7678f43 0.0s
  => => exporting manifest list sha256:b49b2b7d2e3a8453e173d6b83c51671e439f679c4aa6be2b928634628507a707 0.0s
  => => naming to docker.io/library/cc-lab4-user-b:latest 0.0s
  => => unpacking to docker.io/library/cc-lab4-user-b:latest 0.0s
  => resolving provenance for metadata file 0.0s

— No Previous Chat History —

— Chat Started (user-b connecting to rabbitmq) —
Type message:
Received from user-a: Hello, Im Batman
Type message: Hello, Im SUpErMan
Sent by user-b: Hello, Im SUpErMan
Type message: |
```

<pre>  =&gt; CACHED [2/5] RUN pip install pika 0 .0s   =&gt; CACHED [3/5] WORKDIR /app 0 .0s   =&gt; CACHED [4/5] COPY chat.py . 0 .0s   =&gt; CACHED [5/5] RUN mkdir -p /app/data 0 .0s   =&gt; exporting to image 0 .1s   =&gt; =&gt; exporting layers 0 .0s   =&gt; =&gt; exporting manifest sha256:65742e304f3aedd52f9065e44ae0f63f9b7d901c3feb197710c0ec427bfdd44e 0 .0s   =&gt; =&gt; exporting config sha256:76be42ada7718c6062d3efc53bb7ce99429ebccfb6f21642dd235ea8f4e8e4d8 0 .0s   =&gt; =&gt; exporting attestation manifest sha256:9118035ac5025d4f5fdf3cc3b92016872706510f879358af8f5ef8fa7449c493 0 .0s   =&gt; =&gt; exporting manifest list sha256:14716527c29c3d61111e816ca3d43f804bc0dc394038b20b2da461cb78001d3 0 .0s   =&gt; =&gt; naming to docker.io/library/cc-lab4-user-a:latest 0 .0s   =&gt; =&gt; unpacking to docker.io/library/cc-lab4-user-a:latest 0 .0s   =&gt; resolving provenance for metadata file 0 .0s  — No Previous Chat History —  — Chat Started (user-a connecting to rabbitmq) — Type message: Hello, Im Batman Sent by user-a: Hello, Im Batman Type message: Received from user-b: Hello, Im SUpErMan Type message:</pre>	<pre>  =&gt; CACHED [2/5] RUN pip install pika 0 .0s   =&gt; CACHED [3/5] WORKDIR /app 0 .0s   =&gt; CACHED [4/5] COPY chat.py . 0 .0s   =&gt; CACHED [5/5] RUN mkdir -p /app/data 0 .0s   =&gt; exporting to image 0 .1s   =&gt; =&gt; exporting layers 0 .0s   =&gt; =&gt; exporting manifest sha256:6dd5af96c78b4d62ffc2cd46055eddd5bf327db02c99fad7916588be4de256ef 0 .0s   =&gt; =&gt; exporting config sha256:5ba0f331b207d8cba9806cad2a7af92edcc91c82438ca5e907b162c473fbaa9c 0 .0s   =&gt; =&gt; exporting attestation manifest sha256:43ad81cedee4cf0620fa3bae410262fa92cad3c4866561e029297986d7678f43 0 .0s   =&gt; =&gt; exporting manifest list sha256:b49b2b7d2e3a8453e173d6b83c51671e439f679c4aa6be2b928634628507a707 0 .0s   =&gt; =&gt; naming to docker.io/library/cc-lab4-user-b:latest 0 .0s   =&gt; =&gt; unpacking to docker.io/library/cc-lab4-user-b:latest 0 .0s   =&gt; resolving provenance for metadata file 0 .0s  — No Previous Chat History —  — Chat Started (user-b connecting to rabbitmq) — Type message: Received from user-a: Hello, Im Batman Type message: Hello, Im SUpErMan Sent by user-b: Hello, Im SUpErMan Type message:  </pre>
---	--

## SS11:

```
PES2UG23CS057 CC-Lab4
$ docker compose run --rm user-b
WARN[0000] /mnt/c/Users/whizy/PESU/SEM6/PES2UG23CS057/Cloud-Computing-Lab/CC-Lab4/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Creating 1/1
  ✔ Container cc-lab4-rabbitmq-1  Running                                0.0s

— No Previous Chat History —

— Chat Started (user-b connecting to rabbitmq) —
Type message: Hello, Pes2ug23cs057
Sent by user-b: Hello, Pes2ug23cs057
Type message: |
```

## SS12:

```
PES2UG23CS057 CC-Lab4
$ docker compose run --rm user-b
WARN[0000] /mnt/c/Users/whizy/PESU/SEM6/PES2UG23CS057/Cloud-Computing-Lab/CC-Lab4/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Creating 1/1
  ✔ Container cc-lab4-rabbitmq-1  Created                                0.1s
[+] Running 1/1
  ✔ Container cc-lab4-rabbitmq-1  Started                                0.2s

— Chat History —
Sent by user-b: Hello, Pes2ug23cs057
Received from user-b: Hello, Pes2ug23cs057
— End of History —

— Chat Started (user-b connecting to rabbitmq) —
RabbitMQ not ready, retrying... (1/5)RabbitMQ not ready, retrying... (1/5)

RabbitMQ not ready, retrying... (2/5)
RabbitMQ not ready, retrying... (2/5)
RabbitMQ not ready, retrying... (3/5)
RabbitMQ not ready, retrying... (3/5)
RabbitMQ not ready, retrying... (4/5)
RabbitMQ not ready, retrying... (4/5)
Type message: |
```