

# Cloud Computing Lab : Week-6 : RabbitMQ and Docker-Compose

PES1201800177

Abhishek Das

Section : G

## Task-1

```
producer_1 | [x] Sent 'Hello! My SRN is PES12018001770'
producer_1 | [x] Sent 'Hello! My SRN is PES12018001771'
producer_1 | [x] Sent 'Hello! My SRN is PES12018001772'
producer_1 | [x] Sent 'Hello! My SRN is PES12018001773'
consumer_1 | [x] Received 'Hello! My SRN is PES12018001770'
consumer_1 | [x] Done
producer_1 | [x] Sent 'Hello! My SRN is PES12018001774'
producer_1 | [x] Sent 'Hello! My SRN is PES12018001775'
consumer_2 | [x] Received 'Hello! My SRN is PES12018001773'
consumer_2 | [x] Done
consumer_3 | [x] Received 'Hello! My SRN is PES12018001771'
consumer_3 | [x] Done
consumer_4 | [x] Received 'Hello! My SRN is PES12018001772'
consumer_4 | [x] Done
producer_1 | [x] Sent 'Hello! My SRN is PES12018001776'
producer_1 | [x] Sent 'Hello! My SRN is PES12018001777'
producer_1 | [x] Sent 'Hello! My SRN is PES12018001778'
consumer_3 | [x] Received 'Hello! My SRN is PES12018001774'
consumer_3 | [x] Done
consumer_4 | [x] Received 'Hello! My SRN is PES12018001777'
producer_1 | [x] Sent 'Hello! My SRN is PES12018001779'
producer_1 | [x] Sent 'Hello! My SRN is PES120180017710'
producer_1 | [x] Sent 'Hello! My SRN is PES120180017711'
producer_1 | [x] Sent 'Hello! My SRN is PES120180017712'
producer_1 | [x] Sent 'Hello! My SRN is PES120180017713'
producer_1 | [x] Sent 'Hello! My SRN is PES120180017714'
consumer_1 | [x] Received 'Hello! My SRN is PES12018001775'
consumer_1 | [x] Done
consumer_1 | [x] Received 'Hello! My SRN is PES12018001779'
consumer_1 | [x] Done
consumer_1 | [x] Received 'Hello! My SRN is PES120180017712'
consumer_1 | [x] Done
consumer_2 | [x] Received 'Hello! My SRN is PES12018001776'
consumer_2 | [x] Done
consumer_3 | [x] Received 'Hello! My SRN is PES12018001778'
consumer_3 | [x] Done
consumer_4 | [x] Done
rmq_1      | 2021-02-26 06:21:56.516 [info] <0.532.0> closing AMQP connection <0.532.0> (172.18.0.3:39470 -> 172.18.0.2:5672, vhost: '/', user: 'g
uest')
consumer_3 | [x] Received 'Hello! My SRN is PES120180017711'
```

```
> sudo docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS
34dd9c4682eb   source_consumer                     "sh -c 'sleep 15 66 ..." 2 minutes ago  Up 2 minutes
847493d27899   source_consumer                     "sh -c 'sleep 15 66 ..." 2 minutes ago  Up 2 minutes
3b18974df8db   source_consumer                     "sh -c 'sleep 15 66 ..." 2 minutes ago  Up 2 minutes
0a34bd537543   source_producer                     "sh -c 'sleep 20 66 ..." 3 minutes ago  Exited (0) 2 minutes ago
c7c5b8d65b51   source_consumer                     "sh -c 'sleep 15 66 ..." 9 minutes ago  Up 2 minutes
```

receive.py docker-compose.yml × source.py

docker-compose.yml

```
1  version: '3.1'
2
3  services:
4    rmq:
5      image: rabbitmq:3.8.3-alpine
6
7
8    consumer:
9      build:
10       context: receive
11       dockerfile: Dockerfile
12
13      command: sh -c "sleep 15 && python receive.py"
14
15      links:
16       - rmq
17
18      depends_on:
19       - rmq
20      restart: on-failure
21
22    producer:
23      build:
24       context: send
25       dockerfile: Dockerfile
26
27      command : sh -c "sleep 20 && python source.py"
28
29      links :
30       - rmq
31
32      depends_on:
33       - rmq
34      restart: on-failure
35
36
37  #Add the Producer service below
```

## Task-2

```
consumer_4 | [*] Waiting for logs. To exit press CTRL+C
rmq_1 | 2021-02-26 06:38:38.904 [info] <0.517.0> accepting AMQP connection <0.517.0> (172.18.0.7:44796 -> 172.18.0.2:5672)
rmq_1 | 2021-02-26 06:38:38.906 [info] <0.517.0> connection <0.517.0> (172.18.0.7:44796 -> 172.18.0.2:5672): user 'guest' authenticated and g
ranted access to vhost '/'
consumer_3 | [*] Waiting for logs. To exit press CTRL+C
rmq_1 | 2021-02-26 06:38:42.988 [info] <0.537.0> accepting AMQP connection <0.537.0> (172.18.0.4:54354 -> 172.18.0.2:5672)
rmq_1 | 2021-02-26 06:38:42.990 [info] <0.537.0> connection <0.537.0> (172.18.0.4:54354 -> 172.18.0.2:5672): user 'guest' authenticated and g
ranted access to vhost '/'
producer_1 | [x] Sent 'PES1201800177'
consumer_3 | [x] b'PES1201800177'
consumer_1 | [x] b'PES1201800177'
consumer_4 | [x] b'PES1201800177'
consumer_2 | [x] b'PES1201800177'
rmq_1 | 2021-02-26 06:38:42.993 [info] <0.537.0> closing AMQP connection <0.537.0> (172.18.0.4:54354 -> 172.18.0.2:5672, vhost: '/', user: 'g
uest')
source_producer_1 exited with code 0
```

```
sudo docker ps -a
[sudo] password for abhishek:
CONTAINER ID        IMAGE               COMMAND                  CREATED            STATUS              PORTS                               NAMES
9a4b0b6a4c22       source_consumer    "sh -c 'sleep 15 66 ..." 54 seconds ago    Up 53 seconds                               source_consumer_2
6ecca89e7743       source_consumer    "sh -c 'sleep 15 66 ..." 54 seconds ago    Up 53 seconds                               source_consumer_3
077640cdb90f       source_consumer    "sh -c 'sleep 15 66 ..." 54 seconds ago    Up 53 seconds                               source_consumer_4
cd812450208c       source_consumer    "sh -c 'sleep 15 66 ..." 2 minutes ago     Up 53 seconds                               source_consumer_1
db63e4751594       source_producer     "sh -c 'sleep 20 66 ..." 2 minutes ago     Exited (0) 33 seconds ago                 source_producer_1
ec9f52312de1       rabbitmq:3.8.3-alpine "docker-entrypoint.s..." 3 minutes ago     Up 54 seconds              4369/tcp, 5671-5672/tcp, 25672/tcp  source_rmq_1
b8cbf3373a96       hello-world        "/hello"                 13 days ago       Exited (0) 13 days ago                 unruffled_hertz
```