Cloud Computing Lab 6 Report

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1 Work Queues

Figure 1: Output of docker-compose

```
| CECATED | STATUS | PORTS | MARKS | COMMUNITY | CECATED | STATUS | PORTS | MARKS | COMMUNITY | CECATED | STATUS | PORTS | CECATED |
```

Figure 2: Output of docker ps

```
🔼 ubuntu@ip-172-31-74-144: ~/t; 🗙 🙎 ubuntu@ip-172-31-74-144: ~ 🗴 🕂 🗸
ubuntu@ip-172-31-74-144:~/task1/source$ cat docker-compose.yml
version: '3.1'
services:
 rmq:
    image: rabbitmq:3.8.3-alpine
 consumer:
    build:
      context: receive
      dockerfile: Dockerfile
    command: sh -c "sleep 15 && python receive.py"
      - rmq
    depends_on:
      - rmq
    restart: on-failure
  producer:
    build:
      context: send
      dockerfile: Dockerfile
    command : sh -c "sleep 20 && python source.py"
    links :
      - rmq
    depends_on:
      - rmq
    restart: on-failure
ubuntu@ip-172-31-74-144:~/task1/source$
```

Figure 3: docker-compose.yml

2 Publish and Subscribe

Figure 4: Output of docker-compose

ubuntu@ip-172-31-74-144:~\$ docker ps -a						
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
77b4d3962445	source_consumer	"sh -c 'sleep 15 &&"	3 minutes ago	Up 25 seconds		source_consu
mer_5						
3bcfe0105f6e	source_consumer	"sh -c 'sleep 15 &&"	3 minutes ago	Up 26 seconds		source_consu
mer_2						
20af3a9a78c5	source_consumer	"sh −c 'sleep 15 &&"	3 minutes ago	Up 25 seconds		source_consu
mer_3						
c3e23578a26c	source_producer	"sh -c 'sleep 20 &&"	3 minutes ago	Exited (0) 5 seconds ago		source_produ
cer_1						
d2a326af3d42	source_consumer	"sh -c 'sleep 15 &&"	3 minutes ago	Up 26 seconds		source_consu
mer_4						
61fad669ee38	source_consumer	"sh -c 'sleep 15 &&"	3 minutes ago	Up 25 seconds		source_consu
mer_1						
38acd0eb8ffd	rabbitmq:3.8.3-alpine	"docker-entrypoint.s"	3 minutes ago	Up 27 seconds	4369/tcp, 5671-5672/tcp, 25672/tcp	source_rmq_1
ubuntu@ip-172-31-74-144:~\$						

Figure 5: Output of docker ps