

List of Docker Run Commands:

```
docker run -d --hostname rabbitmq --name rabbitmq -p 15672:15672 -e
RABBITMQ_DEFAULT_USER=cmpe281 -e RABBITMQ_DEFAULT_PASS=cmpe281 rabbitmq:3-
management
```

```
docker run --name mongoddb -d mongo:latest
```

```
docker build -t gumball .
```

```
docker run --name gumball --link mongoddb:mongoddb -d --link rabbitmq:rabbitmq -p 4000:3000
gumball
```

```
docker run --name nodejs --link gumball:gumball -p 8080:4000 -d nodegumball
```

docker-ps:

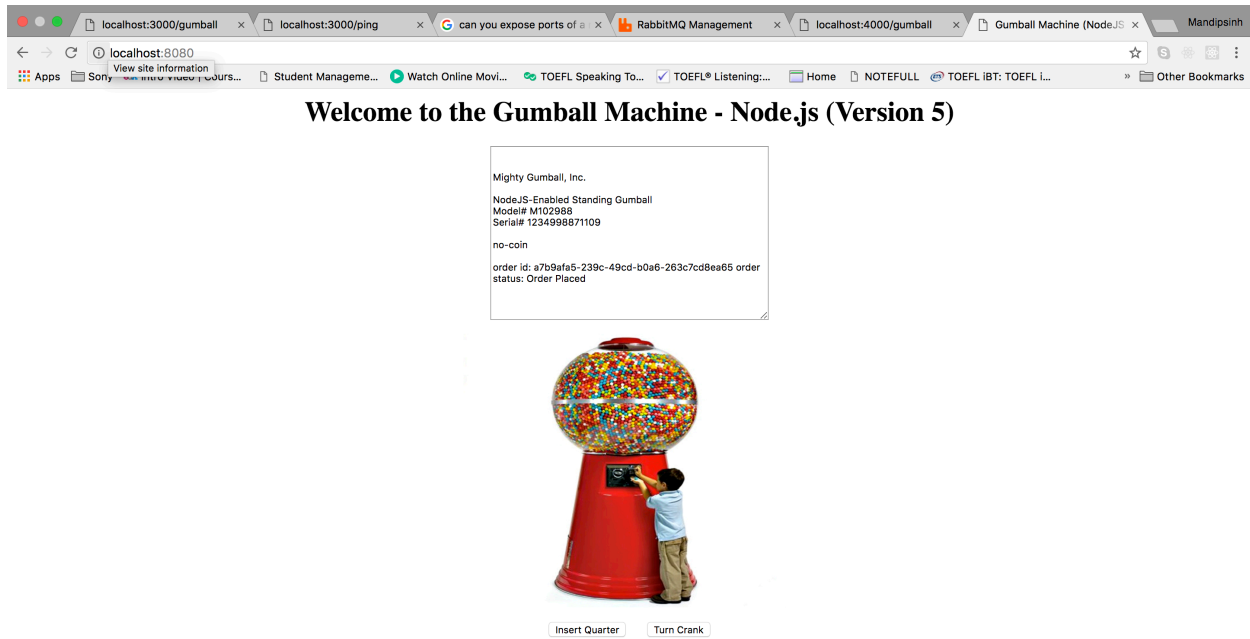
```
docker ps --all --format "table {{.ID}}\t{{.Names}}\t{{.Image}}\t{{.Status}}\t"
```

docker-ps-ports:

```
docker ps --all --format "table {{.Names}}\t{{.Ports}}\t"
```

```
mandipsinhgohil (master *) go
[$ docker ps --all --format "table {{.ID}}\t{{.Names}}\t{{.Image}}\t{{.Status}}\t"
CONTAINER ID      NAMES      IMAGE      STATUS
a857b36b4201      nodejs     nodegumball Up About an hour
3971d1f5866d      gumball    gumball    Up About an hour
eb1e6aa96c1b      mongoddb   mongo:latest Up About an hour
60ecaabcf5f5f     rabbitmq    rabbitmq:3-management Up 2 hours
db195c6c261b      node       nodegumball Exited (1) 4 hours ago
3bfebd3afd5a      mandiptud   nodegumball Exited (1) 4 hours ago
36351f0f925c      tender_chebyshev 327044743968 Exited (1) 7 hours ago
13c8aa96da9d      gracious_hawking 07ab453c463c Exited (1) 7 hours ago
f582aabcba0c      kong        kong:0.9.9 Exited (143) 30 hours ago
78b21b4d2de7      kong-database cassandra:2.2 Exited (143) 30 hours ago
5d57de12a405      mysql       mysql:5.5 Exited (0) 30 hours ago
a8fc3865d7dd      starbucks   starbucks Exited (137) 30 hours ago
9998aaba61a2      angry_bohr  nodejs Exited (255) 3 days ago
de927424960      gumballredis mandipsinhgohil/gumball-redis Exited (255) 4 days ago
14cf3c3f12ea      gumball-redis 9235ef35e722 Exited (1) 4 days ago
91fef8791761      festive_stonebraker b34b9d60f1d8 Exited (1) 4 days ago
4126cb879cd7      redis        redis:4.0 Exited (255) 4 days ago
dee25bf22b69      optimistic_lewin 927cdedbd087 Exited (1) 2 weeks ago
ea4ea5fa9467      agitated_albattani 536d11fb8672 Exited (1) 2 weeks ago
950c666a3d3a      frosty_khorana b911fd3838b8 Exited (255) 3 weeks ago
mandipsinhgohil (master *) go
[$ docker ps --all --format "table {{.Names}}\t{{.Ports}}\t"
NAMES      PORTS
nodejs     8080/tcp, 0.0.0.0:8080->4000/tcp
gumball    0.0.0.0:4000->3000/tcp
mongoddb   27017/tcp
rabbitmq    4369/tcp, 5671-5672/tcp, 15671/tcp, 25672/tcp, 0.0.0.0:15672->15672/tcp
node
mandiptud
tender_chebyshev
gracious_hawking
kong
kong-database
mysql
starbucks
angry_bohr      0.0.0.0:8080->8080/tcp
gumballredis    0.0.0.0:8080->3000/tcp
gumball-redis
festive_stonebraker
redis          6379/tcp
optimistic_lewin
agitated_albattani
frosty_khorana 9090/tcp
mandipsinhgohil (master *) go
$ █
```

Take a screenshot of the Node.js App after placing a few Gumball Orders (note, you'll have to insert a quarter for each order)



Take a screenshot of the RabbitMQ "gumball" queue showing the count of messages (1 for each Order)

The screenshot shows the RabbitMQ Management interface at localhost. The 'Queues' tab is active, displaying a table for the 'gumball' queue. The table indicates 1 message is ready. The interface includes navigation links, a pagination bar, and a footer with various support links.

Overview			Messages			Message rates		
Name	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack
gumball		idle	1	0	1	0.00/s	0.00/s	0.00/s

This screenshot shows the RabbitMQ Management interface with 2 messages in the 'gumball' queue. The 'Ready' count has increased from 1 to 2. The rest of the interface remains the same.

Overview			Messages			Message rates		
Name	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack
gumball		idle	2	0	2	0.20/s	0.00/s	0.00/s

This screenshot shows the RabbitMQ Management interface with 4 messages in the 'gumball' queue. The 'Ready' count has increased from 2 to 4. The rest of the interface remains the same.

Overview			Messages			Message rates		
Name	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack
gumball		idle	4	0	4	0.40/s	0.00/s	0.00/s

localhost

Docker Hub EC2 Management Console Gumball Machine (NodeJS Version 5) RabbitMQ Management

Refreshed 2018-03-31 20:27:42 Refresh every 5 seconds

Virtual host All

Cluster rabbit@rabbitmq

User cmpe281 Log out

Overview Connections Channels Exchanges **Queues** Admin

Queues

▼ All queues (1)

Pagination

Page 1 of 1 - Filter: ☐ Regex ?

Displaying 1 item , page size up to: 100

Overview			Messages			Message rates		
Name	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack
gumball		idle	3	0	3	0.00/s	0.00/s	0.00/s

▶ Add a new queue

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localhost

Docker Hub EC2 Management Console Gumball Machine (NodeJS Version 5) RabbitMQ Management

Refreshed 2018-03-31 20:28:17 Refresh every 5 seconds

Virtual host All

Cluster rabbit@rabbitmq

User cmpe281 Log out

Overview Connections Channels Exchanges **Queues** Admin

Queues

▼ All queues (1)

Pagination

Page 1 of 1 - Filter: ☐ Regex ?

Displaying 1 item , page size up to: 100

Overview			Messages			Message rates		
Name	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack
gumball		running	5	0	5	0.00/s	0.00/s	0.00/s

▶ Add a new queue

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Run the following CURL command from localhost

```
mandipsinhgohil (master ***) go
$ curl -X POST \
> http://localhost:4000/orders \
> -H 'content-type: application/json'
{
  "6cccf8b7-72a1-48bb-9397-c5576ce53591": {
    "Id": "6cccf8b7-72a1-48bb-9397-c5576ce53591",
    "OrderStatus": "Order Processed"
  },
  "6d5b09c0-d1f0-497d-b7c4-b058654290eb": {
    "Id": "6d5b09c0-d1f0-497d-b7c4-b058654290eb",
    "OrderStatus": "Order Processed"
  },
  "84d76e6f-adf9-40f1-b88d-cc98e7ab5b98": {
    "Id": "84d76e6f-adf9-40f1-b88d-cc98e7ab5b98",
    "OrderStatus": "Order Processed"
  },
  "a7b9afa5-239c-49cd-b0a6-263c7cd8ea65": {
    "Id": "a7b9afa5-239c-49cd-b0a6-263c7cd8ea65",
    "OrderStatus": "Order Processed"
  },
  "bec9930c-8fe4-474f-a698-6f436a927cef": {
    "Id": "bec9930c-8fe4-474f-a698-6f436a927cef",
    "OrderStatus": "Order Processed"
  }
}
```

Take a screenshot of the RabbitMQ "gumball" queue showing the no more messages in the Queue

localhost

Docker Hub

EC2 Management Console

Gumball Machine (NodeJS Version 5)

RabbitMQ Management

 3.7.4 Erlang 20.2.4

Refreshed 2018-03-31 20:30:06 Refresh every 5 seconds

Virtual host All

Cluster rabbit@rabbitmq

User cmpe281 Log out

OverviewConnectionsChannelsExchangesQueuesAdmin

Queues

All queues (1)

Pagination

Page 1 of 1 - Filter: ☐ Regex ?

Displaying 1 item , page size up to: 100

Overview			Messages			Message rates			
Name	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack	
gumball		idle	0	0	0	0.00/s	1.0/s	0.00/s	

Add a new queue

HTTP API

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