

Install RabbitMQ

The following instructions are broken up into 2 sections

Section 1: Are the instructions for installing RabbitMQ for Mac/OSX

Section 2: Are the instructions for installing RabbitMQ for Windows

Select the section for the operating system of your laptop.

Note: This is unnecessary on Cloud Foundry. The Operator for the foundation has already installed Spring Cloud Dataflow, which includes the installation of all the required services. This only applies for local execution of the labs as we'll see in lab1.

Section 1: Install RabbitMQ with docker

```
docker run -d --hostname my-rabbit --name some-rabbit -p 15672:15672 -p 5672:5672
rabbitmq:3-management
```

Or run the script in the <FOLDER>/pad-scdf-workshop/labs/install-rabbit.sh

```
./install-rabbit.sh
```

Which saves the typing in of the docker run command.

Section 2: Install RabbitMQ For Mac

1. If using homebrew:
 - a. From a shell prompt execute brew install rabbitmq
 - b. Now let's start the RabbitMQ
 - i. brew services start rabbitmq
 - c. To install the RabbitMQ UI
 - i. From the /usr/local/Cellar/rabbitmq/3.7.8/sbin/rabbitmq_server-3.7.8/sbin directory execute the following:
 - ii. rabbitmq-plugins enable rabbitmq_management
 - iii. Jump to the end of the Mac install section for accessing the admin page:
2. -OR- Manually install RabbitMQ
 - a. Download RabbitMQ from [here](#)
 - b. Copy the tarball to a location on your local machine
 - c. Unzip the tarball tar -xvf rabbitmq-server-mac-standalone-3.7.8.tar.xz
 - d. Now let's start the RabbitMQ server
 - i. i. cd <Folder>rabbitmq_server-3.7.8/sbin

- ii. `./rabbitmq-server -detached`
- e. To install the RabbitMQ UI
 - i. From the `rabbitmq_server-3.7.8/sbin` directory execute the following:
 - ii. `rabbitmq-plugins enable rabbitmq_management`

Now go to your browser and enter:

- 3. <http://localhost:15672>
- 4. Login Username: guest
- 5. Password: guest

The screenshot shows the RabbitMQ Management UI in a web browser. The page title is "RabbitMQ" with version "3.7.8" and Erlang version "20.3.8.5". The page is refreshed every 5 seconds. The user is logged in as "guest" and can log out. The page has tabs for Overview, Connections, Channels, Exchanges, Queues, and Admin. The Overview page shows the following information:

- Totals:**
 - Queued messages: last ten minutes
 - Currently idle
 - Message rates: last ten minutes
 - Currently idle
 - Global counts:
- Global counts:**
 - Connections: 0
 - Channels: 0
 - Exchanges: 7
 - Queues: 0
 - Consumers: 0
- Nodes:**

| Name | File descriptors ? | Socket descriptors ? | Erlang processes | Memory ? | Disk space | Uptime | Info | Reset stats |
|------------------|-------------------------|-----------------------|--------------------------|------------------------------|----------------------------|---------|------------------|---------------------|
| rabbit@my-rabbit | 26 1048576 available | 0 943626 available | 374 1048576 available | 83MB 799MB high watermark | 45GB 48MB low watermark | 14m 43s | basic disc 1 rss | This node All nodes |
- Ports and contexts:**
 - Listening ports:**

| Protocol | Bound to | Port |
|------------|----------|-------|
| amqp | :: | 5672 |
| clustering | :: | 25672 |
| http | :: | 15672 |
 - Web contexts:**

| Context | Bound to | Port | SSL | Path |
|---------------------|----------|-------|-----|------|
| RabbitMQ Management | 0.0.0.0 | 15672 | • | / |
- Export definitions:**

Filename for download: `rabbit_my-rabbit_2015`

[Download broker definitions](#)
- Import definitions:**

The footer of the page contains links to HTTP API, Server Docs, Tutorials, Community Support, Community Slack, Commercial Support, Plugins, GitHub, and Changelog.

Install RabbitMQ For Windows (this section is unvetted)

1. Install Erlang
 - a. Download and run Erlang Windows Binary File .
 - b. (if windows asks, "Do you want to allow this app from an unknown publisher to make changes to your device") Click the "Yes" button.
 - c. Click Next button through the options (should be 2)
 - d. Click Install button
 - e. Click Finish button
2. Install Rabbit MQ
 - a. Download and run rabbit-server-3.6.6.exe
 - b. (if windows asks, "Do you want to allow this app from an unknown publisher to make changes to your device") Click the "Yes" button.
 - c. Click Next button through the options (should be 2)
 - d. Click Finish button
 - e. Start RabbitMQ
 - i. Now from the Windows Start Button
 - ii. Go to the RabbitMQ Server Group
 - iii. Select RabbitMQ Service - start
3. Install RabbitMQ UI
 - a. If you would like to view the queues in RabbitMQ created by Spring Cloud Data Flow
 - b. `cd c:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.6\sbin`
 - c. `rabbitmq-plugins enable rabbitmq_management`
 - d. Now go to your browser and enter:
 - i. <http://localhost:15672>
 - ii. Login Username: guest
 - iii. Password: guest