


# RabbitMQ

 Kensium POS uses the RabbitMQ message broker to coordinate communication amongst an organization's POS servers and tenants. RabbitMQ must be installed at each site where a local POS server is deployed, whether it is for a corporate or a store tenant.

## a) Docker Container

One of the simplest ways to install RabbitMQ is via a Docker container. The Docker container file is included with the POS installation files.

To start the Docker container, run the following command:

```
docker run -d -p 15672:15672 -p 5672:5672 fusion-rabbitmq
```

Ensure that you configure this container to run automatically at startup. See [Docker Restart Policies](#) for more information.

## b) Manual Install

An alternative to using Docker is to install RabbitMQ manually.

See the [RabbitMQ Installation Instructions](#) for details on how to install RabbitMQ in Windows.

POS requires RabbitMQ version 3.9.13 - ensure that you install this version. Later RabbitMQ versions may also work, but they have not been tested.

## c) Firewall Ports

The local POS server is intended to access the local RabbitMQ server on the same local area network (LAN). If - for any reason - there are firewall or other IP port restrictions in place, RabbitMQ typically requires the following ports:

- 5672 for messages
- 15672 for the management API

It's best to use these default ports, although note that you can change them when you install and configure RabbitMQ.

#### **d) Management UI**

Once installed, you can access the RabbitMQ management user interface with your web browser, typically using port 15672 - for example:

- <http://localhost:15672>

The default username and password are guest and guest.

You can only login using the guest account on the local machine (localhost). You cannot login to guest from another computer.

#### **e) Create Admin User**

Use the RabbitMQ management user interface to create a new user account. Enter the administrative credentials that will be used to access the RabbitMQ instance. These values should be:

- admin for the master username
- A strong master password, preferably generated by the Kensium password manager.

Record the following in the Kensium password manager:

- Organization and site details (e.g. corp, or store site ID)
- Host name
- Master UserName
- Master Password



## f) Delete Guest User

It is a good practice to delete the default guest user, as it is a known RabbitMQ default.