

### RabbitMQ



### Overview

RabbitMQ is an AMQP (Advanced Messaging Queuing Protocol) message broker. It supports multiple messaging protocols, message queuing, delivery acknowledgement, flexible routing to queues and multiple exchange types

RabbitMQ can be deployed with Docker, Puppet, Chef and BOSH

RabbitMQ can be deployed as clusters for high availability and can be federated across multiple availability zones and regions

### Protocol Support

**AMQP 0-9-1** Core binary protocol with strong messaging semantic. Good library support across programming languages and environments.

**STOMP** Simplicity text-based protocol. *\*Requires plugin*

**MQTT** Lightweight binary pub/sub. *\*Requires plugin*

**AMQP 1.0** Lower semantic requirements, but more complex protocol than AMQP 0-9-1. *\*Requires plugin*

**HTTP & Websockets** */\*Utilizes Web STOMP plugin, Web MQTT plugin or management plugin*

### AMQP 0-9-1 Model

cdc

dedede

dede

### Key Terms

#### Publishers

**Exchanges** fefe

#### Routes

**Queues** fefe

**Topics** fefe

**Subscribers** Consumer

#### Bindings

### Useful links

<https://www.rabbitmq.com/> RabbitMQ home

[https://hub.docker.com/\\_/rabbitmq/](https://hub.docker.com/_/rabbitmq/) Docker image

<https://www.rabbitmq.com/ec2.html> AWS hosting information

### Command Line Tools

rabbitmqctl Service management and operator tasks

rabbitmq-diagnostics Diagnostics/Health check

rabbitmq-plugins Plugin management

rabbitmqadmin Operator tasks over HTTP API

### Useful commands

Description	Windows -	Linux
Show queues and message count	rabbitmqctl.bat list_queues	sudo rabbitmqctl list_queues



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