Rabbit MQ Delay Exchange implementation

## Configuration:

### ErLang version:

D:\Rabbit\rabbitmq\_server-3.6.3\sbin>erl

Eshell V7.3 (abort with ^G)

***This plugin targets Erlang/OTP 18.0 and later versions (even if the RabbitMQ version used can run on an older Erlang release).***

### RabbitMQ version:

3.6.3

***This plugin targets RabbitMQ 3.5.8 and later versions.***

### RabbitMQadmin:

Use the latest rabbitmqadmin client.

[***https://raw.githubusercontent.com/rabbitmq/rabbitmq-management/rabbitmq\_v3\_6\_6/bin/rabbitmqadmin***](https://raw.githubusercontent.com/rabbitmq/rabbitmq-management/rabbitmq_v3_6_6/bin/rabbitmqadmin)

## RabbitMQ Delayed Message Plugin

This plugin adds delayed-messaging (or scheduled-messaging) to RabbitMQ.

A user can declare an exchange with the type x-delayed-message and then publish messages with the custom header x-delay expressing in milliseconds a delay time for the message. The message will be delivered to the respective queues after x-delay milliseconds.

## Download:

Goto the RabbitMQ plugin download link, search for “**rabbitmq\_delayed\_message\_exchange**” and download it.

Link: <http://www.rabbitmq.com/community-plugins.html>

Or,

Goto the below mentioned direct download link and download it.

Link : <https://bintray.com/rabbitmq/community-plugins/rabbitmq_delayed_message_exchange/_latestVersion#files>

Ref. file name: [rabbitmq\_delayed\_message\_exchange-0.0.1.ez](https://bintray.com/rabbitmq/community-plugins/download_file?file_path=rabbitmq_delayed_message_exchange-0.0.1.ez)

**After download plugin (.ez) file, Copy the plugin into RabbitMQ's plugin folder.**

## Installation:

Goto to RabbitMQ’s sbin folder, and fire below mentioned command:

rabbitmq-plugins enable rabbitmq\_delayed\_message\_exchange

Once the plugin has been enabled, we are ready to start using it.

## Verification:

Goto to RabbitMQ’s sbin folder, and fire below mentioned command:

rabbitmq-plugins list

Sample output on local system:

D:\rabbitmq\_server-3.6.3\sbin>rabbitmq-plugins list

**Output**:

Configured: E = explicitly enabled; e = implicitly enabled

| Status: \* = running on rabbit@YI1003159LT

|/

[e\*] amqp\_client 3.6.3

[e\*] mochiweb 2.13.1

[E\*] rabbitmq\_delayed\_message\_exchange 0.0.1

[ ] rabbitmq\_event\_exchange 3.6.3

[ ] rabbitmq\_federation 3.6.3

[ ] rabbitmq\_federation\_management 3.6.3

[ ] rabbitmq\_jms\_topic\_exchange 3.6.3

[E\*] rabbitmq\_management 3.6.3

[e\*] rabbitmq\_management\_agent 3.6.3

## Implementation:

### [1] Declare exchange:

**Command**:

./rabbitmqadmin -u <username> -p <password> declare exchange name=topic.exchange.generic.delay type=x-delayed-message durable=true 'arguments={"x-delayed-type":"topic"}'

### [2] Create binding from Exchange to Exchange:

**Command:**

./rabbitmqadmin -u <username> -p <password> declare binding source=topic.exchange.generic destination\_type=exchange destination=topic.exchange.generic.delay routing\_key=routingkey.queue.ivr.missedcall.IN

### [3] Create binding from Exchange to Queue:

**Command:**

./rabbitmqadmin -u <username> -p <password> declare binding source=topic.exchange.generic.delay destination=queue.ivr.missedcall.IN routing\_key=routingkey.queue.ivr.missedcall.IN