

AMQP Client

Terms & Concepts

Queue

- prefetch: Consumer ?????? consumer ?????? PUSH ??????????????????
consumer ? PUSH ??????????(????????)?????? consumer
???????????????????? Unacked ?????? Unacked ??????????????????
?????????consumer ???? prefetch ?????????? consumer ??????
- Lazy Queue: Queue ?????????(?)???????????? queue????????????????????

Consume Message

- Consumer ?????????? Push (??) ? Poll (?) ?????
 - ?????RabbitMQ(?)——????????QOS?C#?? - ?????? - ??? (cnblogs.com)

Publish Message

- ??? nodes ? Cluster
???????????????????????????? nodes????????????????
- Publish Confirm:

TTL (Time to Live)

```

????????????????????????????????????? TTL?? RabbitMQ ? TTL ???? Message ? Queue
???
```

Message TTL

- `??: ??????????????????`
- `?? Message ?????? Queues ?????? Queue ? TTL ?????????????????????? TTL ? Queue???????????????? ?`
- `???: Millisecond (60 seconds = 60000)`

???: Policy

```
rabbitmqctl set policy TTL ".*" '{"message-ttl":60000}' --apply-to queues
```

???: Queue ??

- x-message-ttl: 60000

Sample codes in C#

```
var args = new Dictionary<string, object>();
args.Add("x-message-ttl", 60000);
model.QueueDeclare("myqueue", false, false, false, args);
```

Queue TTL

- ??: ???????? Queue?? Queue ??????
- ???: Millisecond (30 mins = 1800000)

???: Policy

```
rabbitmqctl set_policy expiry ".*" '{"expires":1800000}' --apply-to queues
```

???: Queue ??

- x-expires: 1800000

Sample codes in Java

```
Map<String, Object> args = new HashMap<String, Object>();
args.put("x-expires", 1800000);
channel.queueDeclare("myqueue", false, false, false, args);
```

rabbitmqadmin

- [Management Command Line Tool — RabbitMQ](#)

Usage

```
# Publish a message
rabbitmqadmin -H <rabbitmq-server-ip> -u <user-name> -p <secret> -V <virtual-server> publish
exchange=amq.default routing_key=my-testq payload="This is Alang"

# Consume/Get a message
rabbitmqadmin -H <rabbitmq-server-ip> -u <user-name> -p <secret> -V <virtual-host> get queue=my-testq
ackmode=ack_requeue_false
```

amqp-tools

A CLI tool is built-in Ubuntu.

Install

```
sudo apt update
sudo apt install amqp-tools
```

Usage

```
# Declare a queue
amqp-declare-queue --url="amqp://<user-name>:<secret>@<rabbitmq-server-ip>:<rabbitmq-server-
port>/<virtual-server>" -d -q "my-testq"

# Publish a message
amqp-publish --url="amqp://<user-name>:<secret>@<rabbitmq-server-ip>:<rabbitmq-server-port>/<virtual-
server>" --routing-key="my-testq" -b "Hello,World"

# Get the messages (Poll mode)
amqp-get --url="amqp://<user-name>:<secret>@<rabbitmq-server-ip>:<rabbitmq-server-port>/<virtual-
server>" --queue="my-testq"

# Get the messages (Push mode)
amqp-consume --url="amqp://<user-name>:<secret>@<rabbitmq-server-ip>:<rabbitmq-server-port>/<virtual-
server>" --queue="my-testq" -p 2 ./show.sh
```

show.sh:

```
#!/usr/bin/env bash
read line
echo "Message: $line"
sleep 1
```

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