



链滴

golang 开源的消息队列 nsq 安装使用介绍

作者: [450370050](#)

原文链接: <https://ld246.com/article/1524558577932>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

NSQ 是实时的分布式消息处理平台，其设计的目的是用来大规模地处理每天数以十亿计级别的消息。它具有分布式和去中心化拓扑结构，该结构具有无单点故障、故障容错、高可用性以及能够保证消息可靠传递的特征。

安装

本机测试时使用的是windows环境就独自编译了nsq的各模块

```
go get github.com/nsqio/nsq
cd apps nsqd
go build nsqd.go
```

nsq可以搭建mq集群，通过nsqlookupd发现管理nsqd实例，nsqadmin以web的方式管理nsqd

1.运行nsqlookupd

```
D:\go\gopath\src\github.com\nsqio\nsq\apps\nsqlookupd>nsqlookupd.exe
[nsqlookupd] 2017/11/07 17:52:46.063484 INFO: nsqlookupd v1.0.0-compat (built w/
go1.8rc2)
[nsqlookupd] 2017/11/07 17:52:46.084485 INFO: TCP: listening on [::]:4160
[nsqlookupd] 2017/11/07 17:52:46.088485 INFO: HTTP: listening on [::]:4161
```

2.运行nsqld

```
D:\go\gopath\src\github.com\nsqio\nsq\apps\nsqd>nsqd --lookupd-tcp-address=127.0.0.1:
160
[nsqd] 2017/11/07 17:55:17.983173 INFO: nsq
v1.0.0-compat (built w/go1.8rc2) [nsqd] 2017/11/07 17:55:18.010175 INFO: ID: 710
[nsqd] 2017/11/07 17:55:18.011175 INFO: TOPIC(test): created [nsqd] 2
17/11/07 17:55:18.012175
```

3.运行nsqadmin

```
D:\go\gopath\src\github.com\nsqio\nsq\apps\nsqadmin>nsqadmin --lookupd-http-address
127.0.0.1:4161
[nsqadmin] 2017/11/07 17:58:30.405179
INFO: nsqadmin v1.0.0-compat (built w/go1.8rc2)
[nsqadmin] 2017/11/07 17:58:30.426180 INFO: HTTP: listening on [::]:4171
```

使用

1.管理

我们可以访问<http://127.0.0.1/> 来管理我们的nsq

Nodes: SC-201612261726-4151

1 Topics								0 Messages	1 Clients
Topic	Depth	Memory + Disk						Messages	Channels
X test	0	0 + 0						0	3
Channel	Depth	Memory + Disk	In-Flight	Deferred	Requeued	Timed Out	Messages	Connections	
test-channel	0	0 + 0	0	0	0	0	0	1	
Client Host	User-Agent	Attributes	In-Flight	Ready Count	Requeued	Finished	Messages	Connected	
SC-201612261726	go-http/0.6		0	1	0	0	0	5m45s	
Channel	Depth	Memory + Disk	In-Flight	Deferred	Requeued	Timed Out	Messages	Connections	
test-channel2	3	0 + 3	0	0	0	0	0	0	
Notice No clients connected to this channel.									
Channel	Depth	Memory + Disk	In-Flight	Deferred	Requeued	Timed Out	Messages	Connections	
test-channel3	0	0 + 0	0	0	0	0	0	0	
Notice No clients connected to this channel.									

Lookup

nsqlookupd Host
127.0.0.1:4161

Notice
No inactive Topics

Create Topic/Channel

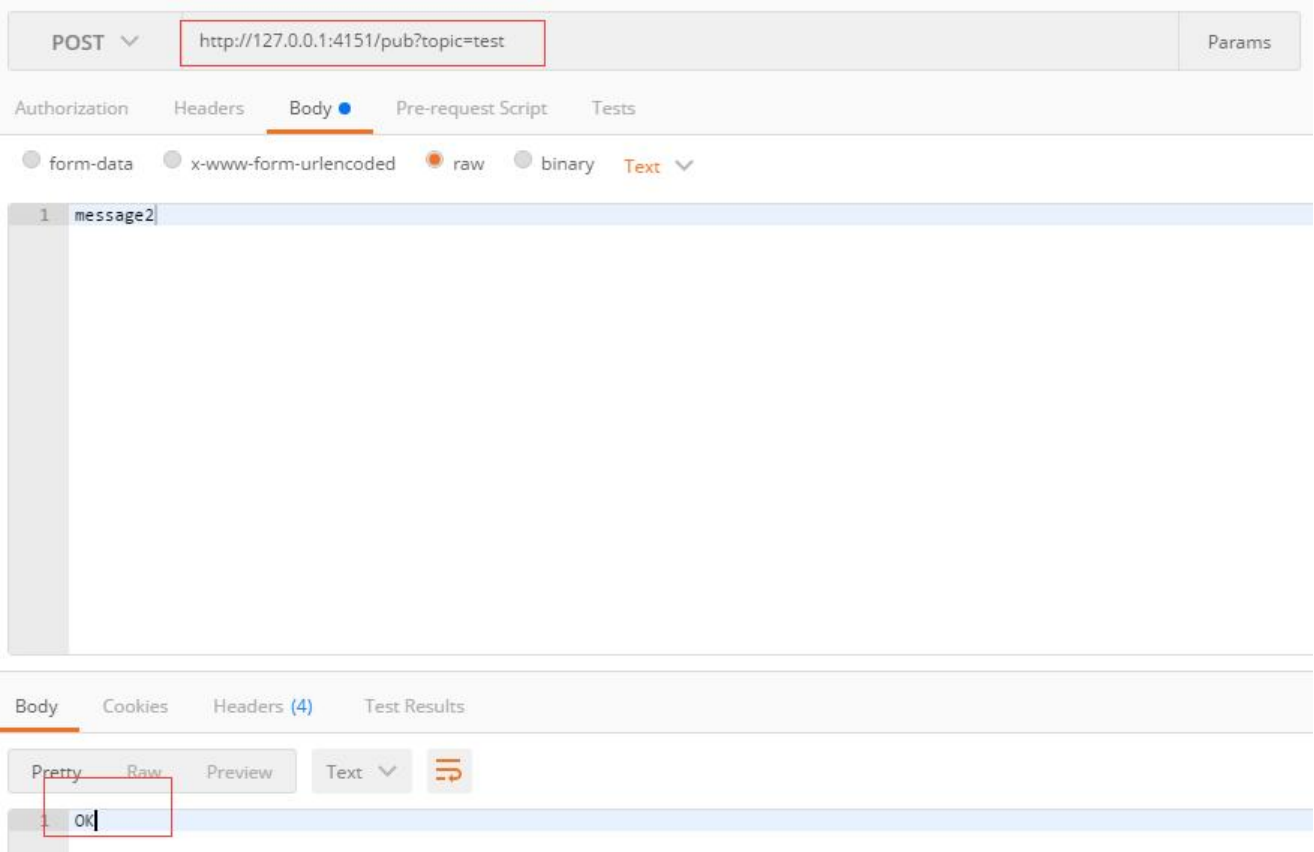
This provides a way to setup a stream hierarchy before services are deployed to production.
If *Channel Name* is empty, just the topic is created.

Topic Name Channel Name

Create

2.创建消息

除了客户端连接创建消息之外我们还可以通过http 提交消息



3.消费消息

nsq的topic可以创建多个消费channel，一条消息可以多个通道消费使用：

```
package main
```

```
import (  
    "fmt"  
    "time"  
    "github.com/nsqio/go-nsq"  
)
```

```
// 消费者  
type ConsumerT struct{}
```

```
// 主函数  
func main() {  
    InitConsumer("test", "test-channel", "127.0.0.1:4161")  
    for {  
        time.Sleep(time.Second * 10)  
    }  
}
```

```
//处理消息  
func (*ConsumerT) HandleMessage(msg *nsq.Message) error {  
    fmt.Println("receive", msg.NSQDAddress, "message:", string(msg.Body))  
    return nil  
}
```

```
//初始化消费者
func InitConsumer(topic string, channel string, address string) {
    cfg := nsq.NewConfig()
    cfg.LookupdPollInterval = time.Second //设置重连时间
    c, err := nsq.NewConsumer(topic, channel, cfg) //新建一个消费者
    if err != nil {
        panic(err)
    }
    c.SetLogger(nil, 0) //屏蔽系统日志
    c.AddHandler(&ConsumerT{}) //添加消费者接口

    //建立NSQLookupd连接
    if err := c.ConnectToNSQLookupd(address); err != nil {
        panic(err)
    }
}
```

运行返回:

```
receive SC-201612261725:4150 message: test
receive SC-201612261725:4150 message: test
receive SC-201612261725:4150 message: test
receive SC-201612261725:4150 message: message1
receive SC-201612261725:4150 message: message2
receive SC-201612261725:4150 message: message2
```