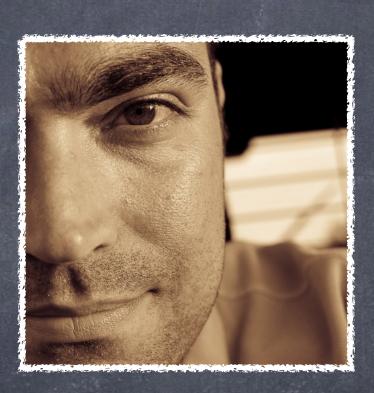


NOCCOS SACLL

Cluisfaustino github.com/dublx/nsq-nodejs-demo

CLUSTOUSELNO

- o Software Eng, Copenjautech.com
 - a NodeJs, NSQ.io, AngularJS SQL & NoSQL
 - o Eled, Docker, AWS, Jenkins
- * Photographer @Luis-faustino.com
- o Living in Dublin, IE
- o From Lisbon, PT



screen.pipe(agenda());

- o Gueues
- o Nocio
- ODEMO
- 0050

Kjui

noun

1 chiefly brit, a line or sequence of people or vehicles awaiting their turn to be attended to or to proceed.

2 computing: a list of data items, commands, etc., stored so as to be retrievable in a definite order, usually the order of insertion.

3 archaic: a plait of hair worn at the back.

Cikcikas

- e Logically unified system used to emit and receive data
- o Natural fit for distributed architectures
- e Allow realtime & batch/offline
- e Easy decoupling of code from protocol and specs
- o Allow plugstplay(tm) workflows

Common Gueue Pallerns

- o Unicast (producer to one consumer)
- o Broadcast (producer to all consumers... PubsubTM)
- e Multicast (producer to groups of consumers)

MACLO

gilhub.com/billy/usa

nsq-users@googlegroups.com #nsq on freehode @nsgio



























































- e realtime distributed messaging platform
- ø designed to operate at scale
- e can handle billions msg/day
- o distributed and decentralised topologies
- e no spor, fault tolerant, HA
- o reliable message delivery guarantee

Libraries & Coclina

- e All main languages, official NodeJS, Go and Python
- o Nodejs: npm install nsqjs
- o usglookupd: topic & producers/consumers discovery
- o usad: reading/writing messages
- o usq to *: shell utilities
- o usaadmin (GUI)

MOCO DEMONICOS

\$ ls -lh /opt/nsq/bin/

- -rwxr-xr-x 6.8M nsq_pubsub
- -rwxr-xr-x 6.5M nsq_stat
- -rwxr-xr-x 6.8M nsq_tail
- -rwxr-xr-x 6.9M nsq_to_file
- -rwxr-xr-x 6.9M nsq_to_http
- -rwxr-xr-x 7.0M nsq_to_nsq
- -rwxr-xr-x 8.3M nsqadmin
- -rwxr-xr-x 8.8M nsqd
- -rwxr-xr-x 8.0M nsqlookupd
- -rwxr-xr-x 6.7M to_nsq

Miscon Start

- \$ nsqlookupd &> nsqlookupd.log &
- \$ nsqd --lookupd-tcp-address=127.0.0.1:4160 &> nsqd.log &
- \$ nsqadmin --lookupd-http-address=127.0.0.1:4161 &> nsqadmin.log &

NGC IN NOCES

```
//subscribe to a NSQ topic
var nsq = require('nsqjs');
var reader = new nsq.Reader('topic', 'channel', {
 lookupdHTTPAddresses: '127.0.0.1:4161'
});
reader.connect();
reader.on('message', function (msg) {
 console.log('Received message [%s]: %s', msg.id, msg.body.toString());
 msg.finish();
```

MSC IN NOCES

```
//writes a message to a NSQ topic
var nsq = require('nsqjs');
var writer = new nsq.Writer('127.0.0.1', 4150);
writer.connect();
writer.on('ready', function () {
  writer.publish('topic', 'message', function (err) {
   if (err) { return console.error(err.message); }
   writer.close();
  });
});
writer.on('closed', function () {
 console.log('Writer closed');
});
```

MOCE IN SACELL

```
#stream to nsq
while read x
do
    echo $x | to_nsq -nsqd-tcp-address=127.0.0.1:4150 --topic=stdin
done
#nsq to http
nsq_to_http-lookupd-http-address=127.0.0.1:4161 -topic=stdin -content-type="text/plain" -
post="http://127.0.0.1:3000/stdin"
#tail
nsq_tail -lookupd-http-address=127.0.0.1:4161 -topic=stdin
#persist
nsq_to_file -lookupd-http-address=127.0.0.1:4161 -topic=stdin -output-dir="."
#cross Datacenter / AZ
nsq_to_nsq -destination-nsqd-tcp-address=dc2:4160 -destination-topic=stdin
```

MOCELLE SACLL

```
#post a message to nsqd http endpoint curl -d 'message' 'http://127.0.0.1:4151/pub?topic=thetopic'
```

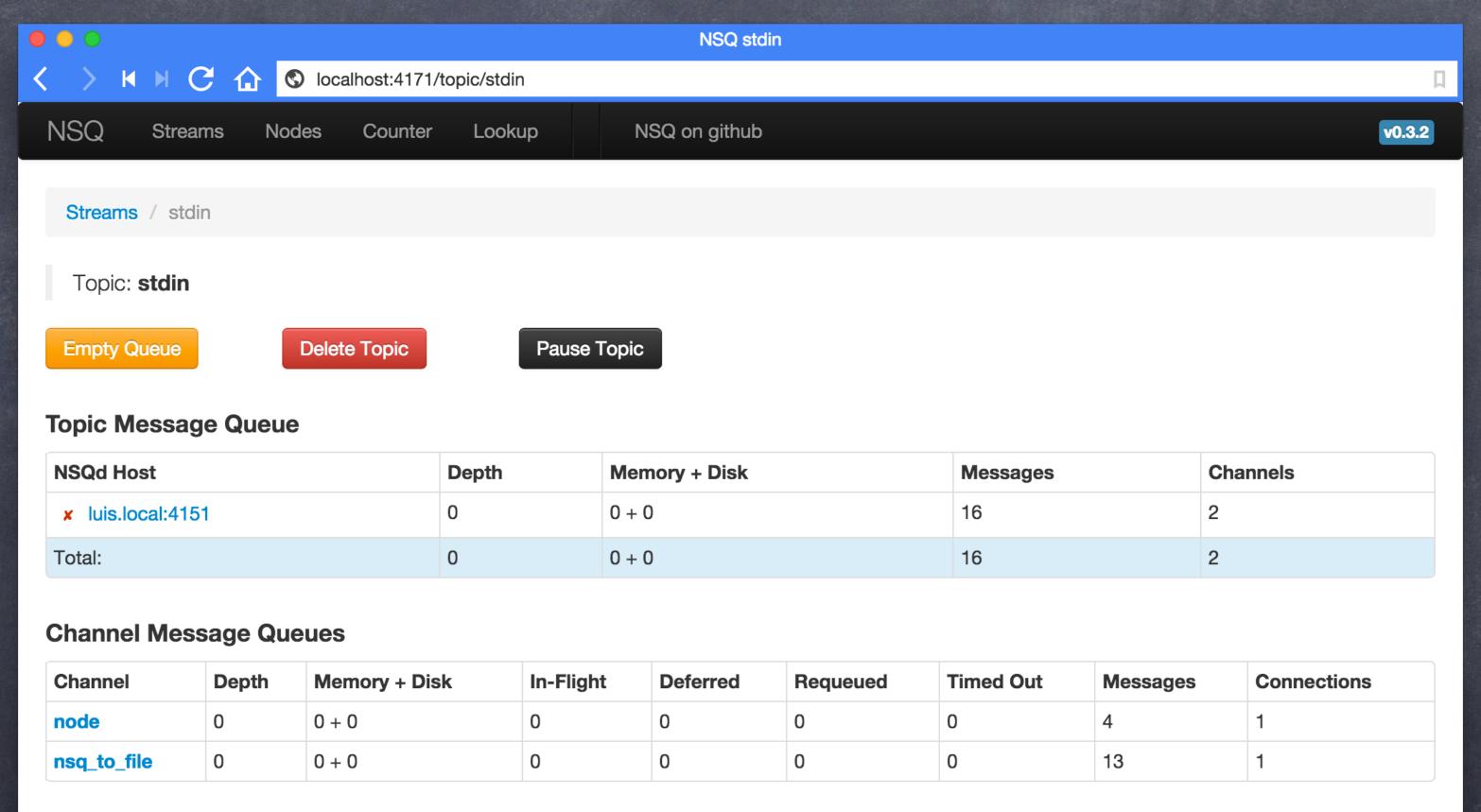
#post multiples messages to nsqd http endpoint curl -d 'message1\nmessage2\nmessage3' 'http://127.0.0.1:4151/mpub?topic=thetopic'

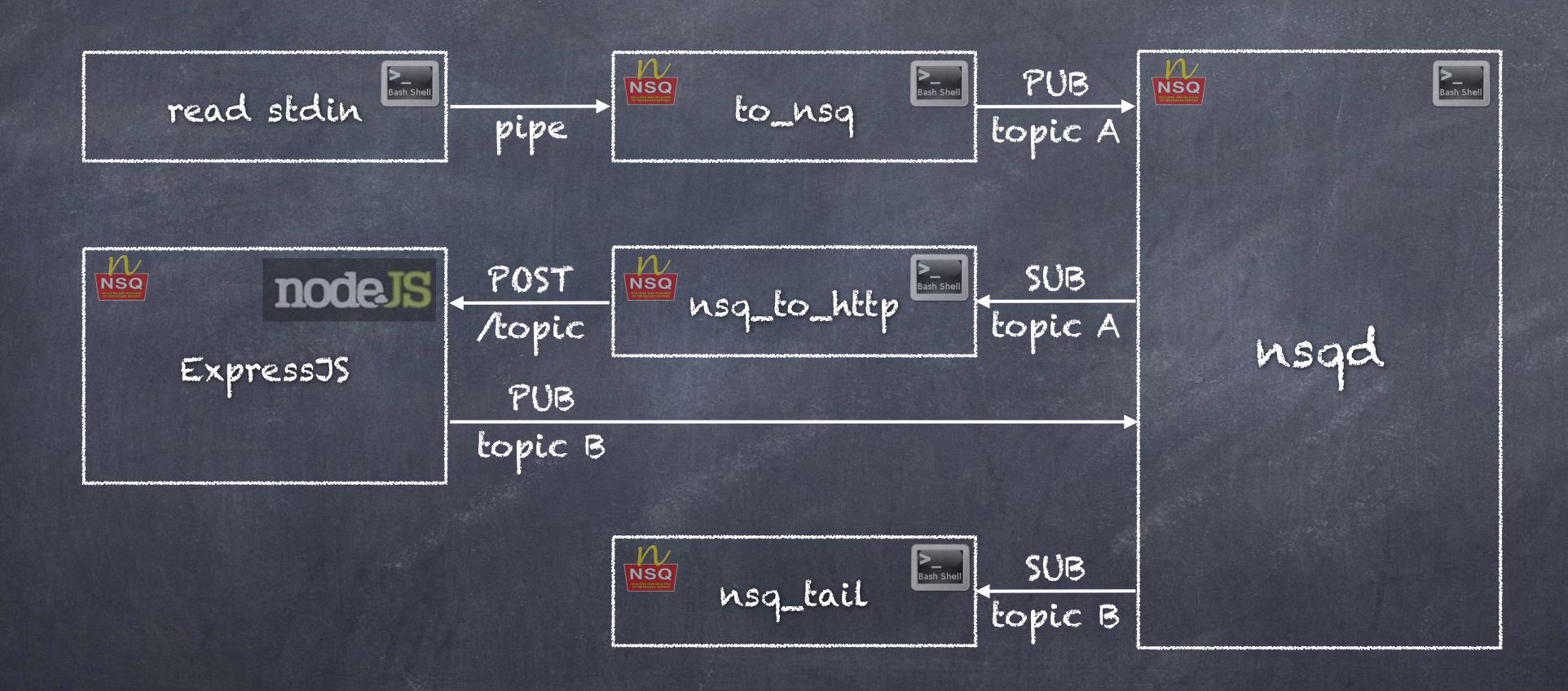
```
# other nsqd http endpoints:
/topic/
/create /delete /empty /pause /unpause
```

/channel/ /create /delete /empty /pause /unpause

/stats /ping /info







COA/COACCS

- speakerdeck.com/snakes/spray-some-usq-on-it
- github.com/bitty/nsq