`bullhorn` Design

Network
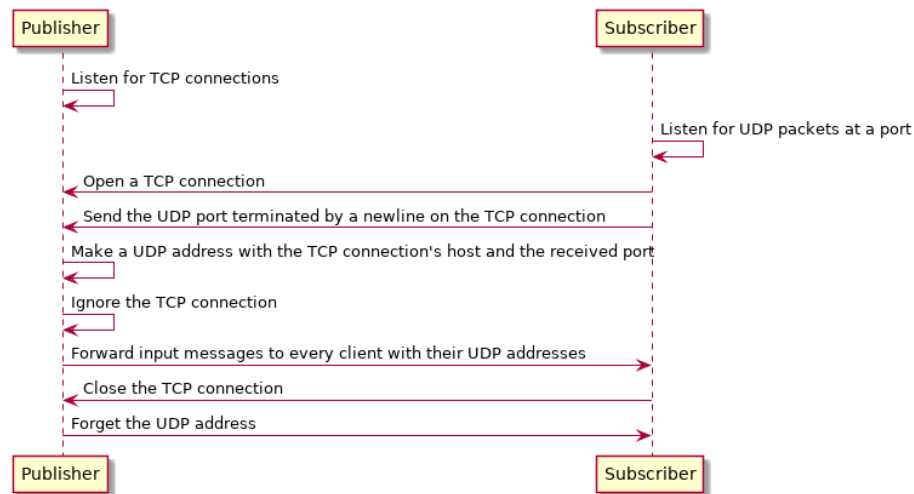

Figure 1: Sequence Diagram

Programs

Publisher

./publish <port>

Runs `publish` which publishes newline-delimited messages from `STDIN` to subscribers received on `<port>`.

Subscriber

./subscribe <publish_host> <publish_port> ?--reconnect-delay <delay>

Runs `subscribe` which prints messages to `STDOUT` published from `publish` running at the `<publish_host>` and `<publish_port>`.

An optional reconnect delay will cause suscribers to attempt to reconnect to the publisher.

Examples

Machine 1 (192.168.1.50):

```
./publish 5050
```

Machine 2 (192.168.1.80):

```
./subscribe 192.168.1.50 5050
```

Machine 3 (192.168.1.81):

```
./subscribe 192.168.1.50 5050
```

Machine 1 (192.168.1.50):

```
< message1
< message2
```

Machine 2 (192.168.1.80):

```
message1
message2
```

Machine 3 (192.168.1.81):

```
message1
message2
```