RELAY
Testing Document

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TDQC – Cohort 5

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1.1 Testing Plans

The basis of testing relay was to validate the environmental variable as well as trying different combinations to test the error handling effectively.

1.2 No Relay Variable

```
skydev@skydev:~/TDQC-Projects/relay$ echo $RELAY

skydev@skydev:~/TDQC-Projects/relay$ ./bin/dispatcher
RELAY environmental variable must be set.
skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener
RELAY environmental variable must be set.
skydev@skydev:~/TDQC-Projects/relay$
```

1.3 Invalid Relay Variable

```
skydev@skydev:~/TDQC-Projects/relay$ RELAY=10
skydev@skydev:~/TDQC-Projects/relay$ export RELAY
skydev@skydev:~/TDQC-Projects/relay$ ./bin/dispatcher
RELAY variable must be between 10025 and 20025.
skydev@skydev:~/TDQC-Projects/relay$ RELAY=20025
skydev@skydev:~/TDQC-Projects/relay$ ./bin/dispatcher
RELAY variable must be between 10025 and 20025.
skydev@skydev:~/TDQC-Projects/relay$ RELAY=20024
skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener
Cannot connect to server.
skydev@skydev:~/TDQC-Projects/relay$
```

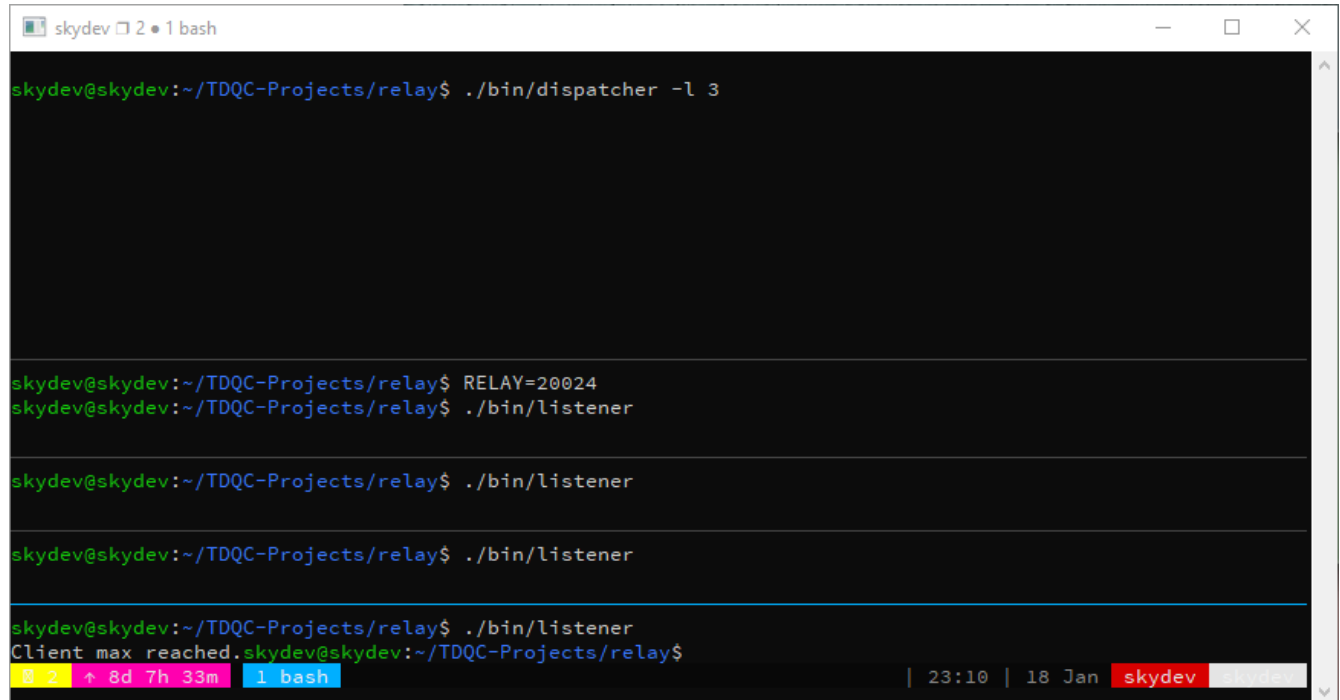## 1.4 Invalid Switches

```
skydev@skydev:~/TDQC-Projects/relay$ ./bin/dispatcher -a
./bin/dispatcher: invalid option -- 'a'
USAGE: ./dispatcher [-l <limit>]
skydev@skydev:~/TDQC-Projects/relay$ ./bin/dispatcher -l
./bin/dispatcher: option requires an argument -- 'l'
USAGE: ./dispatcher [-l <limit>]
skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener -a
This program does not support arguments.
skydev@skydev:~/TDQC-Projects/relay$ ./bin/dispatcher -l 4

        <-Running
```

1.5 Listener Without Dispatcher

```
skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener
Cannot connect to server.
skydev@skydev:~/TDQC-Projects/relay$
```

1.6 Client List Maxed

```
skydev □ 2 ● 1 bash                                    —    □    ✕

skydev@skydev:~/TDQC-Projects/relay$ ./bin/dispatcher -l 3




skydev@skydev:~/TDQC-Projects/relay$ RELAY=20024
skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener


skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener


skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener

skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener
Client max reached.skydev@skydev:~/TDQC-Projects/relay$
  2  ↑ 8d 7h 33m   1 bash                  | 23:10 | 18 Jan   skydev   skydev
```
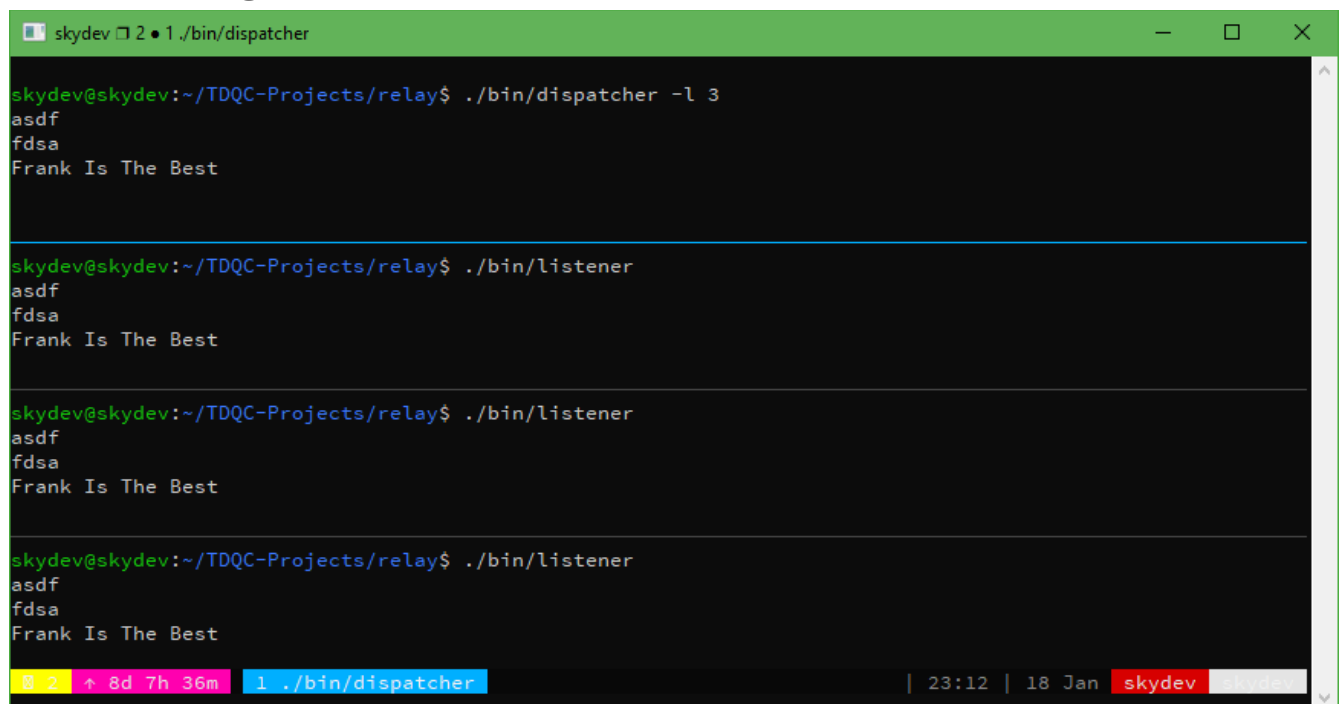
1.7 Working as intended

```
skydev □ 2 ● 1 ./bin/dispatcher                        —    □    ✕

skydev@skydev:~/TDQC-Projects/relay$ ./bin/dispatcher -l 3
asdf
fdsa
Frank Is The Best


skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener
asdf
fdsa
Frank Is The Best

skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener
asdf
fdsa
Frank Is The Best

skydev@skydev:~/TDQC-Projects/relay$ ./bin/listener
asdf
fdsa
Frank Is The Best
  2  ↑ 8d 7h 36m   1 ./bin/dispatcher      | 23:12 | 18 Jan   skydev   skydev
```

1.8 Clients close when server exits