

TW-Mailer Deployment Manual

System Requirements

- Windows operating system
- C++17 compatible compiler
- CMake 3.10 or higher
- CLion IDE (recommended)

Project Structure

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twmailer/

├─ CMakeLists.txt

├─ main.cpp

├─ server.cpp

├─ client.cpp

└─ mail-spool/ (created automatically)

Building

1. Clone files to a directory
2. Open project in CLion
3. CLion will automatically configure CMake
4. Build both targets: twmailer-server and twmailer-client

Running

1. Start server:

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./twmailer-server 8080 ./mail-spool

2. Start client:

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./twmailer-client 127.0.0.1 8080

Test Case Sequence

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1. Send command:

SEND

test

test

test

test message

.

2. List messages:

LIST

test

3. Read message:

READ

test

[message-id]

4. Delete message:

DEL

test

[message-id]

Protocol Specification

1. Message format:

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command\n

content\n.\n

2. Commands:

- SEND: Send new message
- LIST: View user's messages
- READ: Read specific message
- DEL: Delete message
- QUIT: Exit client

3. Server responses:

- OK\n: Success
- ERR\n: Error
- [message content]: For READ/LIST

4. Username restrictions:

- Max 8 characters
- Lowercase letters and numbers only