

VEALC Server Documentation

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Chapter 1

Project Overview

VEALC Server - TCP server for client authentication and vector processing.

Chapter 2

Source Files Summary

2.1 Header Files

auth.h Client authentication class

config.h Server configuration structure

logger.h Logging class

session.h Client session handler

server.h Main server class

types.h Common data types

vector_processor.h Vector calculations class

2.2 Source Files

auth.cpp Authentication implementation

config.cpp Configuration parsing

logger.cpp Logging implementation

main.cpp Program entry point

session.cpp Session handling

server.cpp Server implementation

vector_processor.cpp Vector calculations

Chapter 3

Compilation and Usage

3.1 Compilation

```
g++ -std=c++11 -o server *.cpp -lssl -lcrypto
```

3.2 Running

```
./server -p 33333 -c clients.conf -l server.log
```