

ChatDev

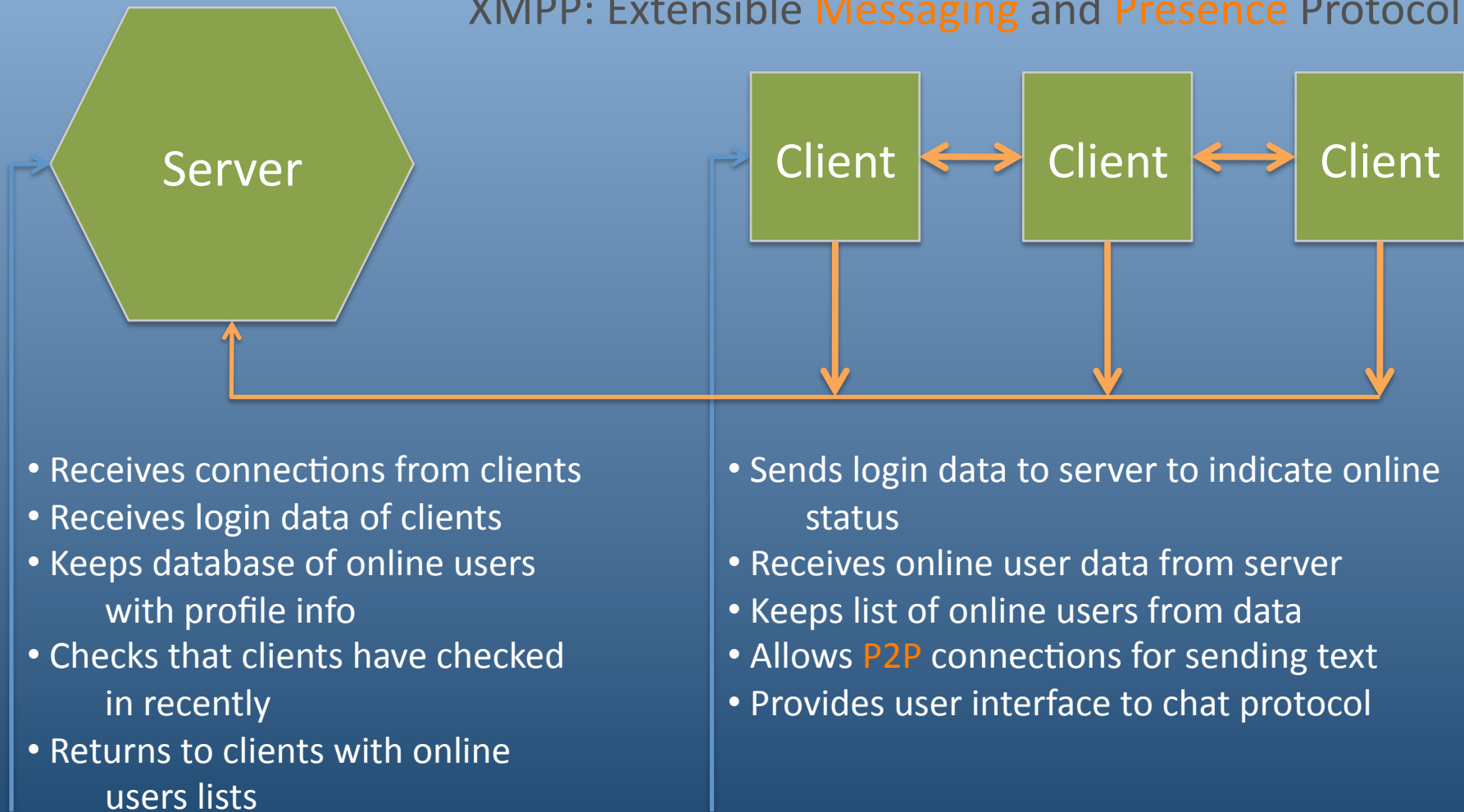
Python XMPP-Based Network Chat

Client & Protocol

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ChatDev : What is XMPP?

XMPP: Extensible **M**essaging and **P**resence Protocol



ChatDev : How does it work?



Server

Main Thread

1. Create **TCP/IP** socket on standard port
2. Start client connection **thread**
3. Start presence thread
4. Store user information in online user **dictionary**
5. Loop back to step 2

Client Connection Thread

1. Listen to socket for incoming connections
2. Receive client **XML** data with new thread
3. Store user information in online user dictionary
4. Send XML of online users back to client
5. Loop to step 1

Presence Thread

1. Loop through all users in dictionary
2. If time since user last seen > time limit, remove from dictionary

ChatDev : How does it work?

