



Assignment 2 Specification

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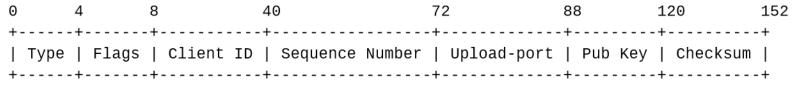


Key Exchange



Client-Hello-Handshake

Server-Hello-Handshake







Client Auth



Auth-Request

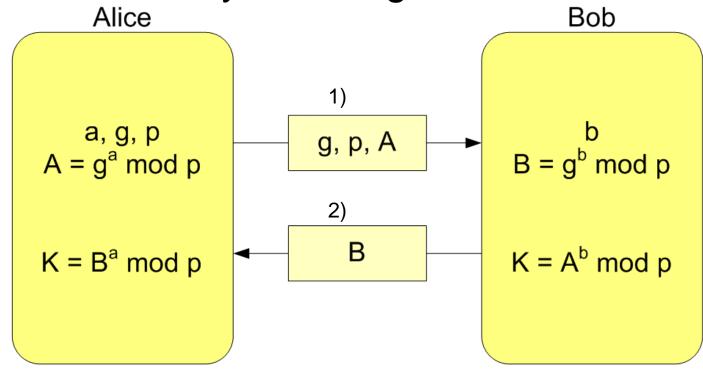
Auth-Result







Diffie-Hellman Key Exchange



 $K = A^b \mod p = (g^a \mod p)^b \mod p = g^{ab} \mod p = (g^b \mod p)^a \mod p = B^a \mod p$

- DiffieHellman::clientStartConnection();
- 2) DiffieHellman::onServerReceive(G,P,A);





Delta Sync - Client

Looks for changed hashes of files:

Changed hash:

- ☐ Calcs CRC32 of every 900 byte blocks
 - If CRC32 block changed compared to the previous run
 - Part gets marked for transmission
 - CRC32 get's updated
 - If CRC32 is the same, compare all the other blocks
 - ➤ Update MD5





Delta Sync - Server

On file got changed by client:

- ☐ Server notes where changed and from who
- ☐ Server sends changes to all connected clients

