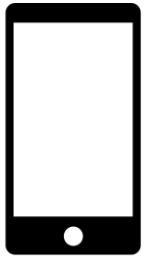


# ANDROID JABBER

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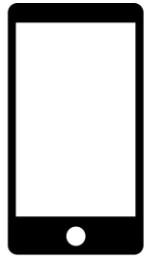
End to end encryption

## Sharing RSA Public key

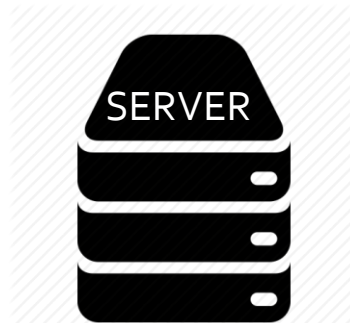


User A

Send Public key



User B



User A - Public RSA Key  
User B - Public RSA Key

# Sharing AES key

User A

- Generate AES key and save a copy
- Encrypt AES Key using User B public key
- Send it through server

User B

- Decrypt AES key using private RSA key
- Save AES key for that session



# Encryption

User A

- Encrypt message using AES
- Send the encrypted message

User B

- Decrypt message using AES
- Display Message



# Authentication/Validation

User A

- Get hash value of message using SHA-256
- AES encrypt hash value
- Send it with the encrypted message

User B

- Decrypt message using AES
- Hash1 = Get hash value of message using SHA-256
- Hash2 = Decrypt hash(encrypted) received from server
- If(Hash1 == Hash2)      VALIDATED



# DEMONSTRATION

THANK YOU