

30 MINUTES NEWLEARNING

Why Https is secured than http??

Only difference between the two protocols is that HTTPS uses [TLS \(SSL\)](#) to encrypt normal HTTP requests and responses.

In HTTPS ,S stands for secured.In above line I used HTTPS uses TLS to encrypt.....

So now I described the reason behind this-

TLS uses a technology called [public key encryption](#):

1.Public Key

2.Private Key

The public key is shared with client devices via the server's SSL certificate.

When a client opens a connection with a server, the two devices use the public and private key to agree on new keys, called [session keys](#), to encrypt further communications between them.

All HTTP requests and responses are then encrypted with these session keys, so that anyone who intercepts communications can only see a random string of characters, not the plaintext.

So this is the reason behind the https more secure than http.

Above I uses TLS and SSL ,So what is it?

->[TLS](#) is an encryption protocol designed to secure Internet communications.

During a TLS handshake, the two communicating sides exchange messages to acknowledge each other, verify each other, establish the encryption algorithms they will use, and agree on session keys.

->[SSL, or Secure Sockets Layer](#), was the original encryption protocol developed for [HTTP](#). SSL was replaced by TLS, or Transport Layer Security, some time ago. SSL handshakes are now called TLS handshakes, although the "SSL" name is still in wide use.