

Diploma in Digital Marketing

Assignment – Module -1

- **What is HTTPS/SSL Update?**

HTTPS stands for Hypertext transfer Protocol secure.

HTTPS is secure version of HTTP which uses SSL or TLS for encryption and authentication. The Https protocol makes it possible for website user to transmit sensitive information like credit card number, banking information and Login credential securely over the internet. For that purpose https is important for securing online activities such as shopping banking or remote working. However https is quickly becoming the standard protocol for all website whether they are transforming sensitive data or not.

HTTPS adds **encryption**, **authentication**, and **integrity** to the HTTP protocol.

Encryption: By including SSL, an encryption, HTTPS prevents data sent over the internet from being intercepted and read by third party. Through the SSL an encrypted communication session can be securely set up between two parties who have never met in person (e.g. a web server and browser) via the creation of a shared secret key.

Authentication: HTTPS, HTTP includes robust authentication via the SSL protocol. A website ssl certificate includes public key that a web browser can use to confirm that documents sent by the server have been digitally signed by CA in possession of the corresponding private key. If the server's certificate has been signed by a publicly trusted certificate authority (CA), such as SSL.com, the browser will accept that any identifying information included in the certificate has been validated by a trusted third party.

Integrity: Each document (such as a web page, image, or JavaScript file) sent to a browser by an HTTPS web server includes a digital signature that a web browser can use to determine that the document has not been altered by a third party or otherwise corrupted while in transit. The server calculates a cryptographic hash of the document's contents, included with its digital certificate, which the browser can independently calculate to prove that the document's integrity is intact.

- **List out 10 famous browsers used worldwide.**

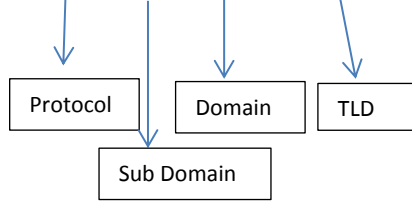
1. Google chrome
2. Duck Duck go
3. Baidu
4. Opera
5. Fire fox
6. Safari
7. UC Browser
8. Microsoft Edge
9. Brave
10. Chromium

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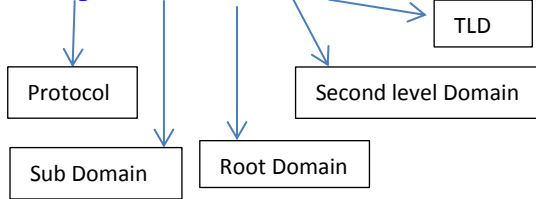
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- Please break down the URLs listed below. (list-out Protocol, Domain, TLD)

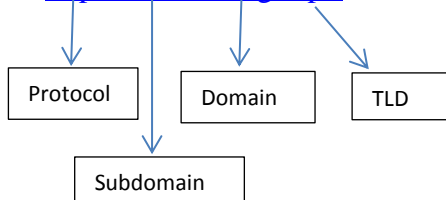
1. <https://www.flipkart.com/>



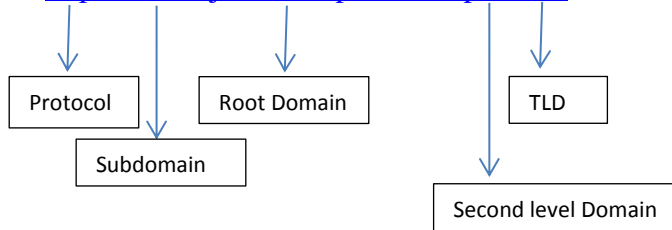
2. <https://www.irctc.co.in/>



3. <https://www.allegro.pl/>



4. <https://www.johnlewispartnership.co.uk/>



5. <https://www.uidai.gov.in/>

