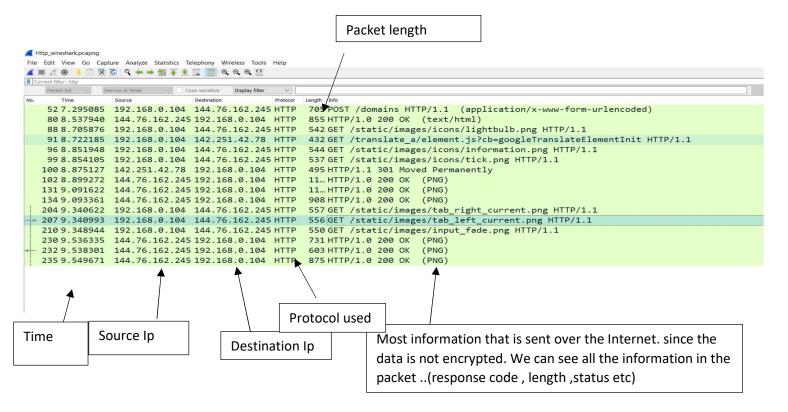# Capture HTTP packets by visiting a HTTP Website, analyse the packets and significance of its various fields. Do the same for HTTPS packets and compare both

HTTP

Packet length

```
Http_wireshark.pcapng
File  Edit  View  Go  Capture  Analyze  Statistics  Telephony  Wireless  Tools  Help
Current filter: http
Packet list    Narrow & Wide    Case sensitive    Display filter
No.    Time        Source           Destination      Protocol  Length  Info
  52 7.295085  192.168.0.104   144.76.162.245  HTTP    709 POST /domains HTTP/1.1   (application/x-www-form-urlencoded)
  80 8.537940  144.76.162.245  192.168.0.104   HTTP    855 HTTP/1.0 200 OK   (text/html)
  88 8.705876  192.168.0.104   144.76.162.245  HTTP    542 GET /static/images/icons/lightbulb.png HTTP/1.1
  91 8.722185  192.168.0.104   142.251.42.78   HTTP    432 GET /translate_a/element.js?cb=googleTranslateElementInit HTTP/1.1
  96 8.851948  192.168.0.104   144.76.162.245  HTTP    544 GET /static/images/icons/information.png HTTP/1.1
  99 8.854105  192.168.0.104   144.76.162.245  HTTP    537 GET /static/images/icons/tick.png HTTP/1.1
 100 8.875127  142.251.42.78   192.168.0.104   HTTP    495 HTTP/1.1 301 Moved Permanently
 102 8.899272  144.76.162.245  192.168.0.104   HTTP    11… HTTP/1.0 200 OK   (PNG)
 131 9.091622  144.76.162.245  192.168.0.104   HTTP    11… HTTP/1.0 200 OK   (PNG)
 134 9.093361  144.76.162.245  192.168.0.104   HTTP    908 HTTP/1.0 200 OK   (PNG)
 204 9.340622  192.168.0.104   144.76.162.245  HTTP    557 GET /static/images/tab_right_current.png HTTP/1.1
 207 9.340993  192.168.0.104   144.76.162.245  HTTP    556 GET /static/images/tab_left_current.png HTTP/1.1
 210 9.348944  192.168.0.104   144.76.162.245  HTTP    550 GET /static/images/input_fade.png HTTP/1.1
 230 9.536335  144.76.162.245  192.168.0.104   HTTP    731 HTTP/1.0 200 OK   (PNG)
 232 9.538301  144.76.162.245  192.168.0.104   HTTP    603 HTTP/1.0 200 OK   (PNG)
 235 9.549671  144.76.162.245  192.168.0.104   HTTP    875 HTTP/1.0 200 OK   (PNG)
```

Protocol used

Time   Source Ip

Destination Ip

Most information that is sent over the Internet. since the data is not encrypted. We can see all the information in the packet ..(response code , length ,status etc)

HTTPS

HTTPS uses an encryption protocol to encrypt communications. The protocol is called Transport Layer Security (TLS), although formerly it was known as Secure Sockets Layer (SSL).