

Safe Browsing at SIIT



Here is the web page containing your news feeds

Response



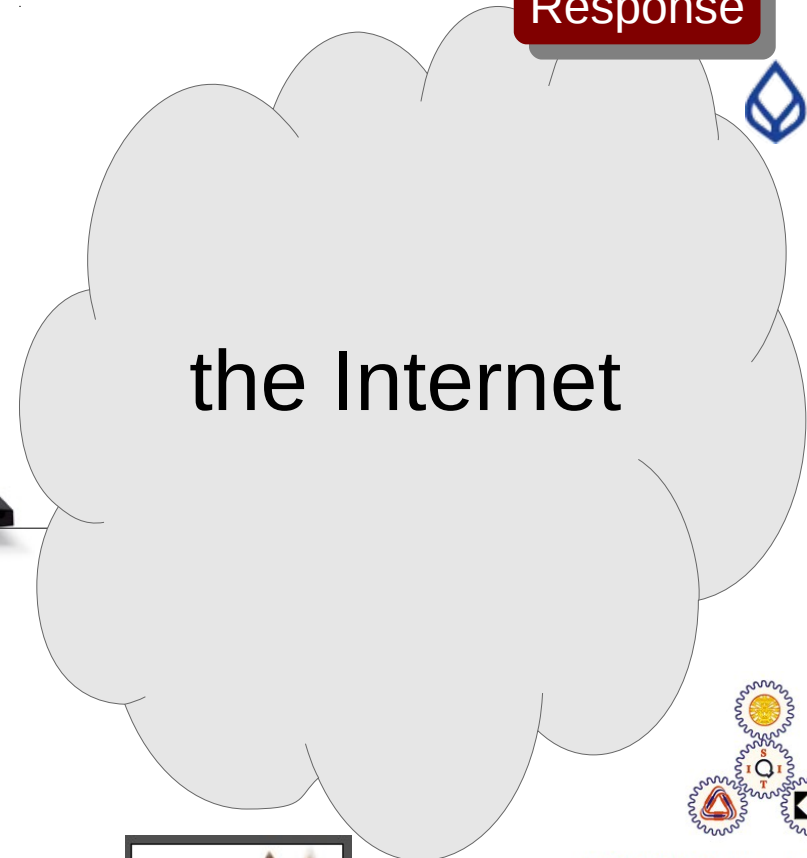
<http://www.facebook.com/>

Send me the web page of my news feeds

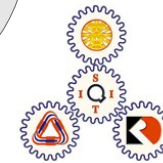
Request



wsiiit

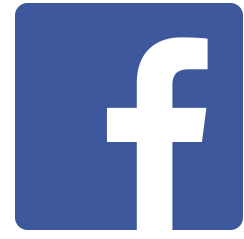


the Internet



ITS100 Online Lab System





INPUT YOUR LOGIN CODE AND PAS

LOGIN CODE
 PASSWORD

[Forgot Password/New Password](#)

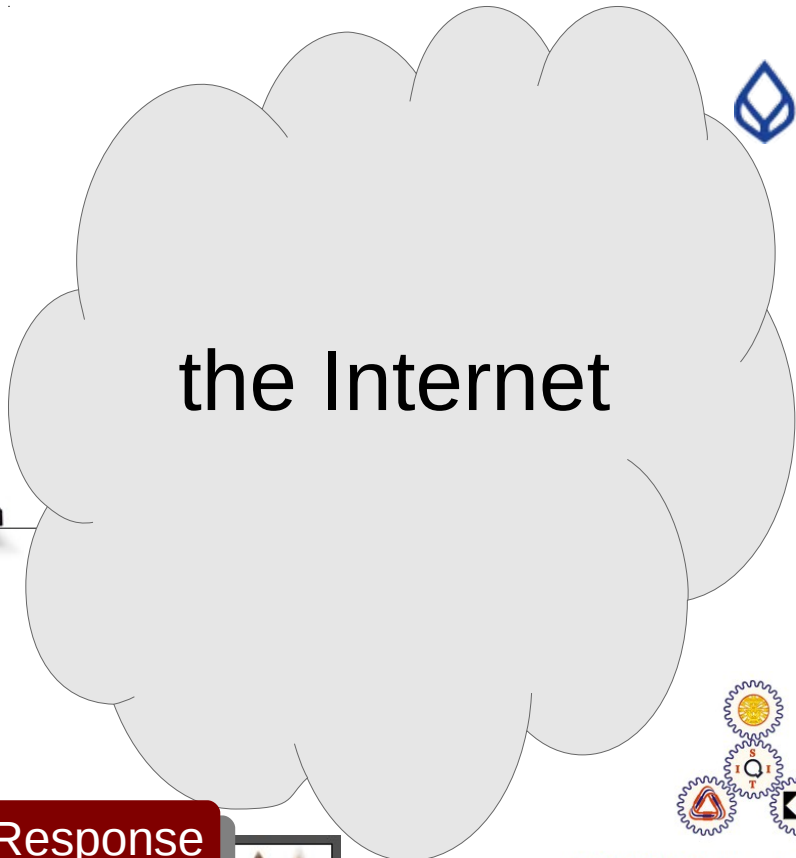
Login as 5722123456
with mysEcretpasswOrd



Request



wsiiit

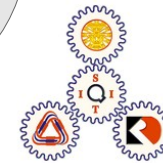


the Internet



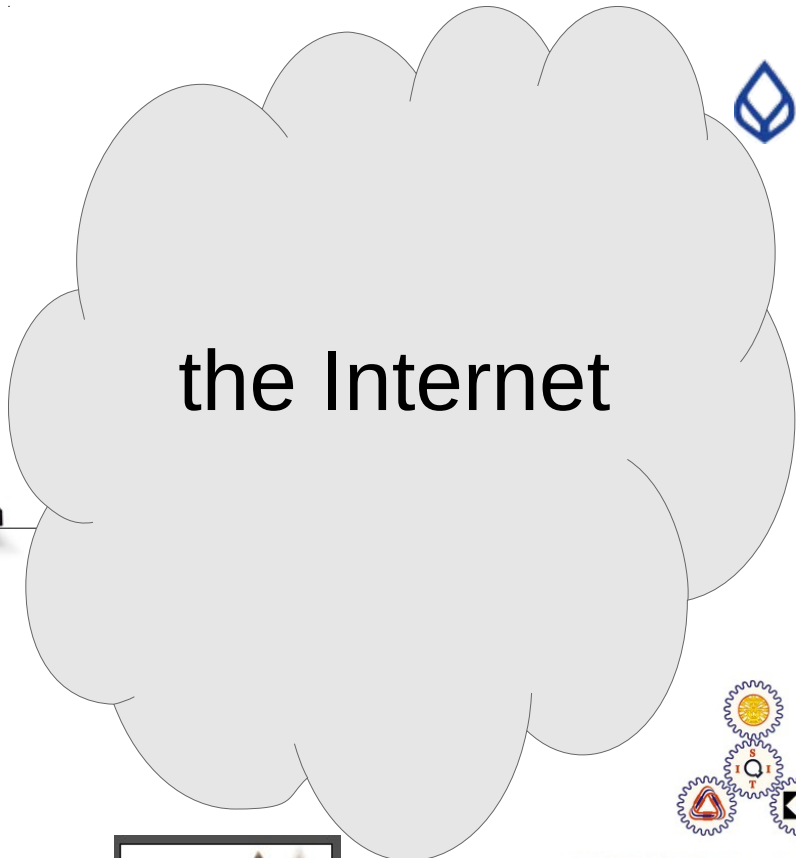
Response

Here is the web page
for registration

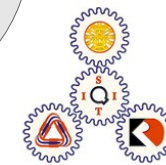


ITS100 Online Lab System

Can someone else see the web
pages you are visiting?



wsit



ITS100 Online Lab System







Request

Response



When using WiFi, assume everyone nearby can “see” everything you do on the Internet

the websites you visit:

www.YouShouldNotBeHere.com

the information on web pages:

Account balance = 1,000,000,000 Baht

the comments you post:

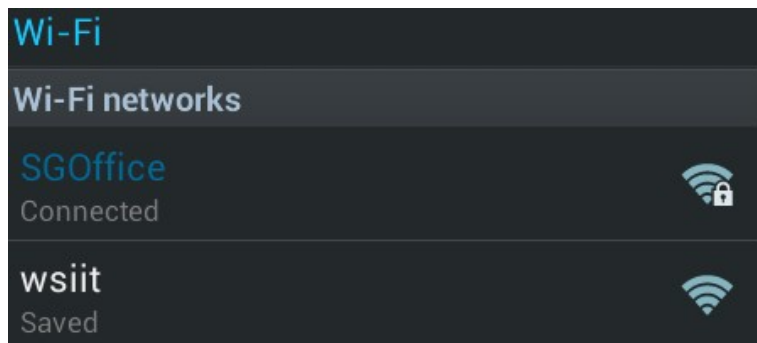
Dr Steve is the worst lecturer ever!

the passwords you submit:

5722123456, mysEcretpassw0rd

When using WiFi, assume everyone nearby can “see” everything you do on the Internet unless you use encryption

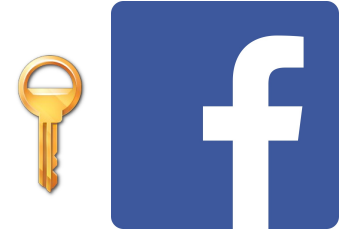
WiFi Encryption: WPA



Web Browsing Encryption: https



Encryption changes the message so that only those with the same key can read it



Encrypt with key Request



9G<3t_da;



Decrypt with key Response



Use HTTPS when accessing
“important” websites

Use WPA in your own
WiFi network

Man-in-the-Middle Attack on HTTPS



Facebook gives “you” (🐧) the key

You receive the key from “Facebook” (🐧)

Everything encrypted with the key can be decrypted by attacker (🐧)

Beware of security warnings!

Especially for websites that don't normally give a warning



This Connection is Untrusted

You have asked Firefox to connect securely to **reg.siiit.tu.ac.th**, but we can't confirm that your connection is secure.

Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.

What Should I Do?

If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.

Get me out of here!

- ▶ **Technical Details**
- ▶ **I Understand the Risks**

Safe Browsing with WiFi

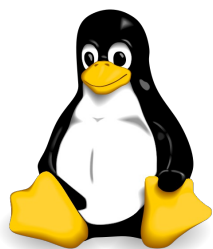
Assume everyone can see what you are doing

Use HTTPS when accessing “important” websites

Use WPA in your own WiFi network

Beware of security warnings when using HTTPS

Use your powers for good



Linux



mitmproxy



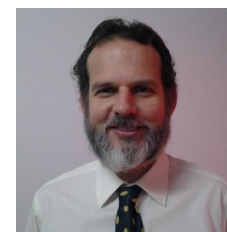
Bi



Sam



Dana



Steve