

**Demonstration of Insecure vs. Secure Websites**

**Abstract**

When visitors to any web site request a page using a secure https:// connection, a broken padlock icon may appear in the web browser's location bar. Google Chrome displays: “Your connection to example.com is not secure. These resources can be viewed by others while in transit, and can be modified by an attacker to change the look of the page.”

HTTPS encryption protects the channel between the browser and the website visit, ensuring no one in the middle can tamper with the traffic or spy on data. Without that encryption, someone with access to router or ISP could intercept information sent to websites or inject malware into otherwise legitimate pages.

The system implements a packet capturing program. The socket is bound and then listened over for any network activity. User-agent and URL visited gets displayed.

**Keywords:** HTTPS, SSL, Web Browsing, Encryption, Man-in-middle attack.

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