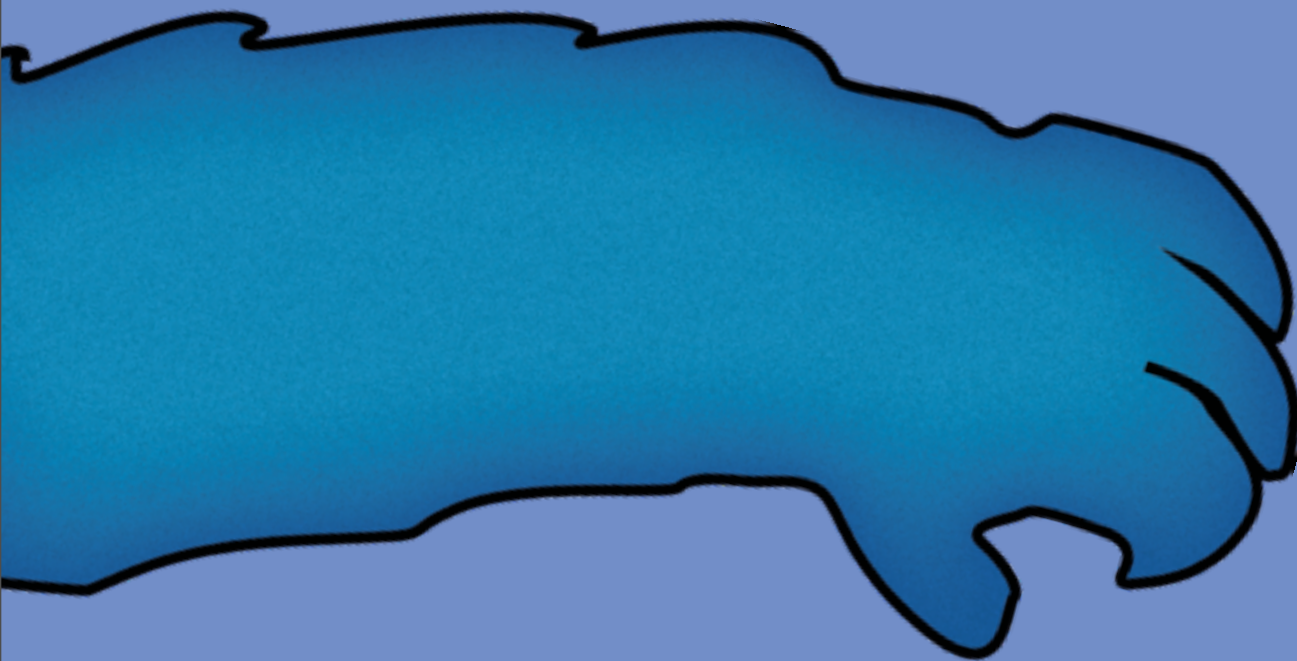


CookieMonster

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Home

Open Wifi networks

Open WiFi networks (such as Chalmers' Nomad) are unprotected even if they require to log in.

The communication is not encrypted and can be sniffed.

With such WiFi networks, gaining unauthorized access to critical websites can be trivial if they are not protected enough.

Info

HTTP cookies

An HTTP cookie is a piece of text stored on a user's computer by their web browser.

A lot of websites use them for session management and authentication.

If the connection with a website is not secured (HTTPS), these cookies are transmitted in clear text!

Even worse on unencrypted WiFi APs...

Session hijacking

Session hijacking is the exploitation of a valid computer session to gain unauthorized access to services

Broken Authentication & Session Management is OSWAP #3 issue

Profile

Our Attack

Written in Python

Uses the Scapy library to deal with sniffing

Only interested in packets containing web cookies (hence its name)

Flexible: can easily be customized for any vulnerable website

Work in progress...

CookieMonster Profile

User guide

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Vulnerable websites (among others):

Facebook

Youtube

Twitter

Blogger

Flickr

MySpace

Yahoo

Campus Efrei (Our
home university
student portal)

Reddit

Google (Web search
and maps)

Chalmers?

(Demonstration)

Privacy

How to protect against this attack

For Users:

Protect your WiFi Network (WPA, WPA2...)

Force HTTPS usage when available

SSH tunnels

VPN

How to protect against this attack

For Web Developers:

Always set up an HTTPs server

Smart cookie management

Share

How to extend this attack

ARP poisoning

Fake certificates

Questions?