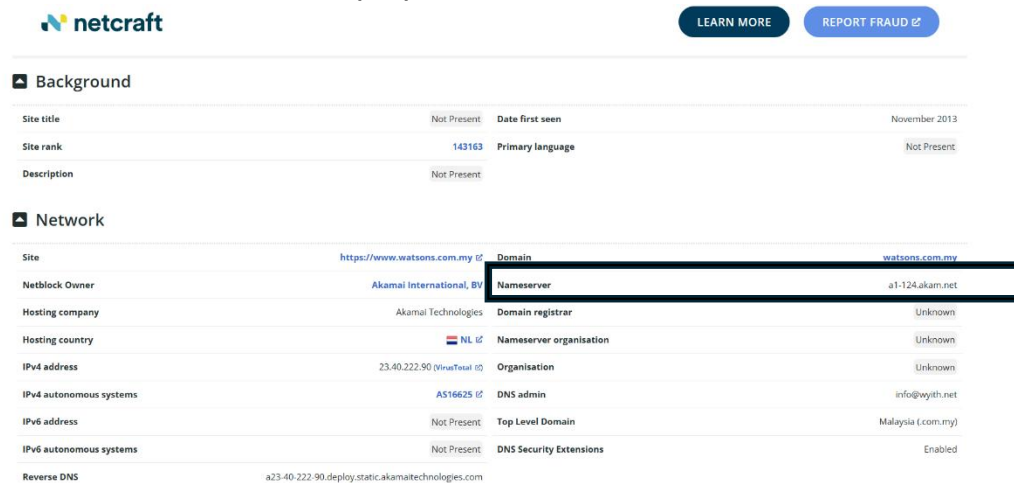**(ITS64904 Computer Intrusion Detection)**

Practical 3: Performing Footprinting Through Web services

Date: 25/10/2024 (Sec 02)

1. What is your target Webserver? Provide the URL?
   My target Webserver is the Watsons. The URL is https://www.watsons.com.my/

2. What is **Nameserver** and the purpose?

Nameserver is a server that handles queries related to the location of domain names, such as websites. It converts domain names into IP addresses that computers use to identify each other on the network. It also stores DNS records like address records, mail exchange records, and canonical name records, which help with various functions like website hosting and email services. Multiple name servers, like ns1 and ns2, are used for backup and redundancy, ensuring the domain remains accessible if one server fails.

In this footprinting practical, the ns1.um.edu.my is the primary server that directs queries for the um.edu.my domain to the correct IP address or resource.

3. What is **IP Delegation** and what is the purpose?

IP delegation
IPv4 address (23.40.222.90)

IP range	Country	Name	Description
::ffff:0.0.0.0/96	United States	IANA-IPV4-MAPPED-ADDRESS	Internet Assigned Numbers Authority
↳ 23.0.0.0-23.255.255.255	United States	NET23	American Registry for Internet Numbers
↳ 23.32.0.0-23.67.255.255	United States	AKAMAI	Akamai Technologies, Inc.
↳ 23.40.208.0-23.40.223.255	Netherlands	AIBV	Akamai International, BV
↳ 23.40.222.90	Netherlands	AIBV	Akamai International, BV

IP delegation is the process by which an organization assigns a range of IP addresses to another organization or network. This allows the receiving organization to use these IP addresses for devices, servers, or other services within their network. The purpose of this IP delegation is to delegate blocks to organizations, enabling them to manage and assign addresses within their network infrastructure. It allows responsibility for managing IP address assignments to be distributed across various organizations, such as ISPs, companies, or universities.

4. How many subdmain been found from your result?
   1 subdmain

netcraft   LEARN MORE   REPORT FRAUD

Hostnames matching *.watsons.com.my
▶ 🔍 Search with another pattern?

1 result

Rank	Site	First seen	Netblock	OS	Site Report
153744	www.watsons.com.my	July 2015	Akamai International, BV	Linux	📄

5. From your subdomain result in OS section, sometimes you will find F5 BIG-IP. What is the purpose of F5 BIG-IP.

   F5 BIG-IP is a set of hardware and software solutions provided by F5 Networks that is primarily used for application delivery, load balancing, security, and network traffic management, It plays a critical role in ensuring the performance, availability, and security of web applications, networks, and services. The purpose of F5 BIG-IP is to distribute incoming network or application traffic across multiple servers to ensure no single server is overwhelmed. This improves the availability, reliability, and performance of applications by balancing the load.

   It offers a web application firewall that protects web applications from common security threats, such as SQL injections, cross-site scripting (XSS), and Distributed Denial of Service (DDoS) attacks. It also optimizes traffic flow between clients and applications by compressing and caching content, accelerating the speed at which web applications are delivered. To conclude this F5 BIG-IP is a comprehensive solution used to enhance the performance, security, and reliability of applications and networks by providing advanced traffic management, load balancing, and application security capabilities.