

Security incident report

Section 1: Identify the network protocol involved in the incident

The network protocols involved in the incident include:

- **DNS (Domain Name System)**: Used to resolve the domain names (yummyrecipesforme.com and greatrecipesforme.com) to their respective IP addresses.
- **HTTP (Hypertext Transfer Protocol)**: Used to request web pages and download the malicious file.
- **TCP (Transmission Control Protocol)**: Ensures reliable communication between the client and the compromised web server.

Section 2: Document the incident

The attacker gained access to yummyrecipesforme.com through a **brute force attack**, exploiting the weak default password of the admin account. They modified the **website source code** by embedding **JavaScript malware**, which prompted users to download a file.

When users visited yummyrecipesforme.com, the **browser sent a DNS request** to resolve the domain's IP address.

The **HTTP request to the server** initiated the webpage load, and a malicious file was prompted for download.

Once users executed the file, their browser was **redirected to a fake website** (greatrecipesforme.com), which contained further malware.

Users reported slow PC performance after running the file, indicating potential malware infection.

Section 3: Recommend one remediation for brute force attacks

To prevent brute force attacks, the company should implement **Multi-Factor Authentication (MFA)** for admin logins. MFA would require a second form of authentication (e.g., a one-time password or authentication app), making it significantly harder for attackers to gain access even if they guess the correct password.