# Security incident report

| **Section 1: Identify the network protocol involved in the incident** | |
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| The protocol involved in the incident is the HyperText Transfer Protocol. | |
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| **Section 2: Document the incident** |
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| Several customers contacted the website’s helpdesk stating that when they  visited the website, they were prompted to download and run a file that  contained access to new recipes. Their personal computers have been  operating slowly ever since. The website owner tried logging into the web  server but noticed they were locked out of their account.  The cybersecurity analyst used a sandbox environment to open the website  without impacting the company network. Then, the analyst ran tcpdump to  capture the network traffic packets produced by interacting with the website.  The analyst was prompted to download a file claiming it would provide access  to free recipes, accepted the download and ran it. The browser then redirected  the analyst to a fake website (greatrecipesforme.com).  The cybersecurity analyst inspected the tcpdump log and observed that the  browser initially requested the IP address for the yummyrecipesforme.com  website. Once the connection with the website was established over the HTTP  protocol, the analyst recalled downloading and executing the file. The logs  showed a sudden change in network traffic as the browser requested a new IP  address for the greatrecipesforme.com URL. The network traffic was then  rerouted to the new IP address for the greatrecipesforme.com website.  The senior cybersecurity professional analyzed the source code for the  websites and the downloaded file. The analyst discovered that an attacker had  manipulated the website to add code that prompted the users to download a  malicious file disguised as a browser update. Since the website owner stated  that they had been locked out of their administrator account, the team believes  the attacker used a brute force attack to access the account and change the  admin password. The execution of the malicious file compromised the end  users’ computers. |

| **Section 3: Recommend one remediation for brute force attacks** |
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| Set Up IP Access Restrictions: This is a robust measure that you can take to protect your sensitive login and admin pages from brute force attacks. Any requests that don’t originate from an approved IP address will result in a 403 Forbidden response error or firewall block page. |