# Cybersecurity Incident Report

| **Section 1: Identify the type of attack that may have caused this**  **network interruption** | |
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| One potential explanation for the website's connection timeout error message is:SYN Flooding dos attack  The flooding of syn requests likely caused this. | |
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| **Section 2: Explain how the attack is causing the website to malfunction** |
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| When website visitors try to establish a connection with the web server, a three-way handshake occurs using the TCP protocol. Explain the three steps of the handshake:  1.SYN packet is sent by the visitor  2. SYN-ACK packet is sent back by the destination and it reserves resources for it  3.Lastly the ack packet is sent to acknowledge the permission to connect  Explain what happens when a malicious actor sends a large number of SYN packets all at once: Too many SYN packets will make server not respond to legitimate requests and the server will not work properly  Explain what the logs indicate and how that affects the server:the server cannot accept any new connections. |