

To pass this course item, you must receive 100%, or 1 out of 1 point, by completing this activity. You can learn more about graded and practice items in the [course overview](#).



Activity Overview

In this activity, you will consider a scenario involving a customer of the company that you work for who experiences a security issue when accessing the company's website. You will identify the likely cause of the service interruption. Then, you will explain how the attack occurred and the negative impact it had on the website.

In this course, you have learned about several common network attacks. You have learned their names, how they are carried out, and the characteristics of each attack from the perspective of the target. Understanding how attacks impact a network will help you troubleshoot issues on your organization's network. It will also help you take steps to mitigate damage and protect a network from future attacks. To review attacks, visit [Identify: Network Attacks](#)

Be sure to complete this activity before moving on. The next course item will provide you with a completed exemplar to compare to your own work.

Scenario

Review the following scenario. Then complete the step-by-step instructions.

You work as a security analyst for a travel agency that advertises sales and promotions on the company's website. The employees of the company regularly access the company's sales webpage to search for vacation packages their customers might like.

One afternoon, you receive an automated alert from your monitoring system indicating a problem with the web server. You attempt to visit the company's website, but you receive a connection timeout error message in your browser.

You use a packet sniffer to capture data packets in transit to and from the web server. You notice a large number of TCP SYN requests coming from an unfamiliar IP address. The web server appears to be overwhelmed by the volume of incoming traffic and is losing its ability to respond to the abnormally large number of SYN requests. You suspect the server is under attack by a malicious actor.

You take the server offline temporarily so that the machine can recover and return to a normal operating status. You also configure the company's firewall to block the IP address that was sending the abnormal number of SYN requests. You know that your IP blocking solution won't last long, as an attacker can spoof other IP addresses to get around this block. You need to alert your manager about this problem quickly and discuss the next steps to stop this attacker and prevent this problem from happening again. You will need to be prepared to tell your boss about the type of attack you discovered and how it was affecting the web server and employees.

Step-By-Step Instructions

Follow the instructions and answer the question to complete the activity. Then, go to the next course item to compare your work to a completed exemplar.

Step 1: Access the template

To use the template for this course item, click the link below and select *Use Template*.

Link to template: [Cybersecurity incident report](#)

OR

If you don't have a Google account, you can download the template directly from the following attachment.

[Cybersecurity incident report](#)

[DOCX File](#)

Step 2: Access supporting materials

The following supporting materials will help you complete this activity. Keep them open as you proceed to the next steps.

To use the supporting materials for this course item, click the following links and select *Use Template*.

Links to supporting materials:

- [How to read a Wireshark TCP/HTTP log](#)

OR

If you don't have a Google account, you can download the supporting materials directly from the following attachments.

[How to read a Wireshark TCP_HTTP log](#)

[DOCX File](#)

Step 3: Identify the type of attack causing this network interruption

Step 4: Explain how the attack is causing the website to malfunction

Pro Tip: Save the template

You can save a blank copy of the template you used to complete this activity for further practice or in your professional projects. These templates will help you work through your thought processes and demonstrate your experience to potential employers.

What to Include in Your Response



Be sure to address the following in your completed activity:

- The name of the network intrusion attack
- A description of how the attack negatively impacts network performance