

# Logs and SIEM tools

As a security analyst, one of your responsibilities might include analyzing log data to mitigate and manage threats, risks, and vulnerabilities.

As a reminder, a log is a record of events that occur within an organization's systems and networks.

Security analysts access a variety of logs from different sources.

Three common log sources include firewall logs, network logs, and server logs.

Let's explore each of these log sources in more detail.

A firewall log is a record of attempted or established connections for incoming traffic from the internet.

It also includes outbound requests to the internet from within the network.

A network log is a record of all computers and devices that enter and leave the network.

It also records connections between devices and services on the network.

Finally, a server log is a record of events related to services such as websites, emails, or file shares.

It includes actions such as login, password, and username requests.

By monitoring logs, like the one shown here, security teams can identify vulnerabilities and potential data breaches. Understanding logs is important because SIEM tools rely on logs to monitor systems and detect security threats.

A security information and event management, or SIEM, tool is an application that collects and analyzes log data to monitor critical activities in an organization.

It provides real-time visibility,  
event monitoring and analysis, and automated alerts.  
It also stores all log data in a centralized location.

Because SIEM tools index and minimize the number of logs  
a security professional must  
manually review and analyze,  
they increase efficiency and save time.

But, SIEM tools must be configured and customized to  
meet each organization's unique security needs.  
As new threats and vulnerabilities emerge,  
organizations must continually customize  
their SIEM tools to ensure that  
threats are detected and quickly addressed.

Later in the certificate program,  
you'll have a chance to practice using  
different SIEM tools to  
identify potential security incidents.

Coming up, we'll explore  
SIEM dashboards and how cybersecurity  
professionals use them to monitor for  
threats, risks, and vulnerabilities.

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