August 2025 Cyber Security Tip: Understanding the Differences of Threats, Vulnerabilities, Incidents, and Breaches



A vulnerability is a weakness in a system that can be exploited by a threat, such as a Common Vulnerabilities and Exposures (CVE).

A threat is a potential danger that could exploit a vulnerability, such as a phishing email containing malware or an insider threat.



An **incident** is an event that disrupts normal operations, ranging from a power outage to a major data breach, and may trigger a business continuity plan.

A breach is the successful exploitation of a vulnerability, leading to the unauthorized access, disclosure, or loss of sensitive data, which can result in significant financial, reputational, and legal consequences.

Immediately notify cyber.security@oa.mo.gov if you suspect you are experiencing an incident or breach. Do not power off your system.

If you receive suspicious emails, click the "report phishing" button. Report any unusual activity to cyber.security@oa.mo.gov and notify your supervisor.