**CTF Challenge: Vulnerability Assessment**

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**What isVulnerability Assessment?**

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Vulnerability analysis is a systematic process of identifying, classifying, prioritizing, and remediating vulnerabilities within a computer system, network, or application. It's like a security checkup for your digital assets, looking for weaknesses that attackers could exploit.

Here's a deeper dive into vulnerability analysis and its importance:

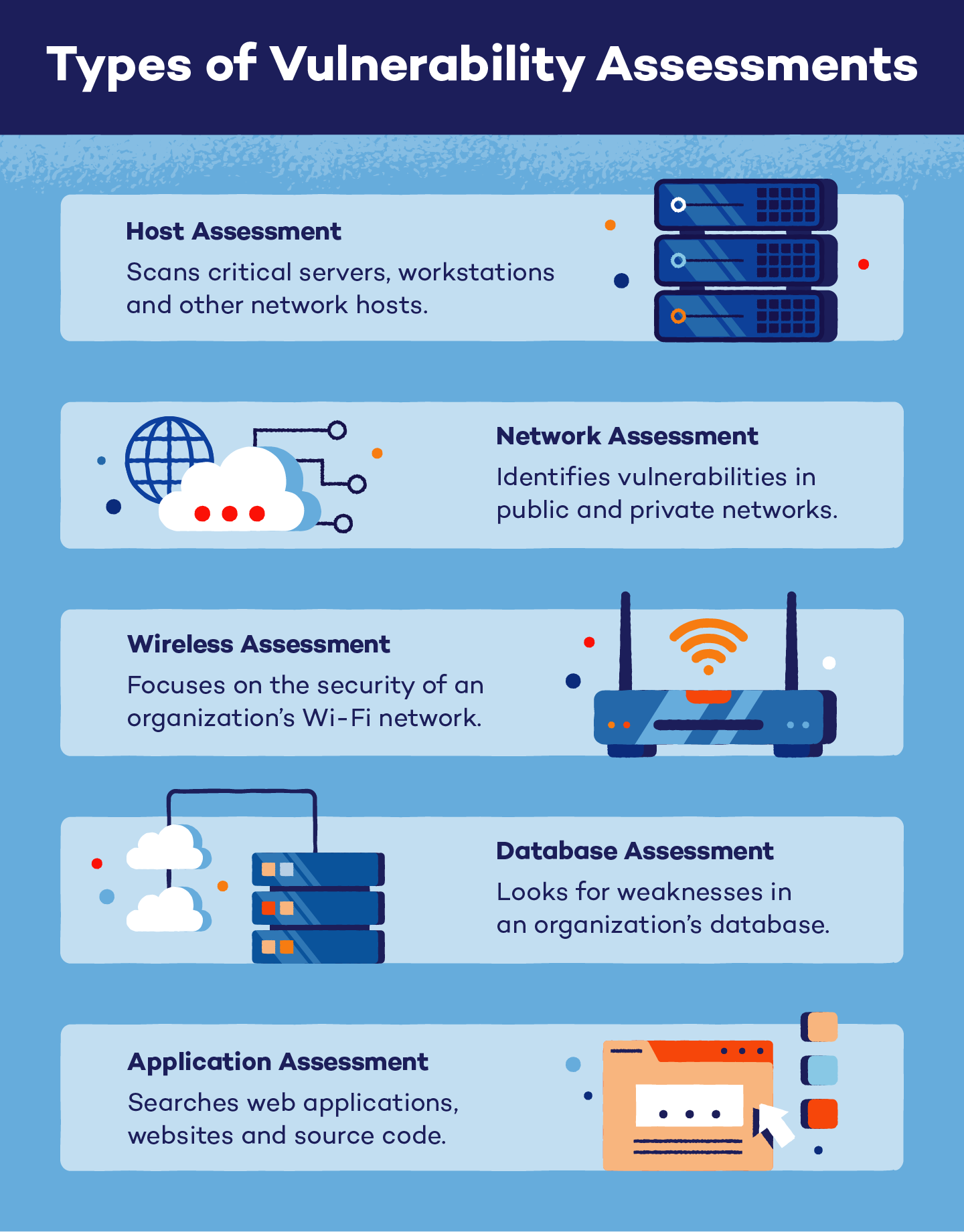
**Why Perform Vulnerability Analysis?**

* **Identification**: Discover and catalog vulnerabilities in the system, such as software flaws, configuration issues, and potential security gaps.
* **Analysis**: Evaluate the identified vulnerabilities to understand their nature, potential impact, and the underlying causes.
* **Prioritization**: Rank vulnerabilities based on their severity, exploitability, and the potential damage they could cause, to determine which ones need immediate attention.
* **Remediation**: Develop and implement strategies to fix the vulnerabilities, including applying patches, changing configurations, and improving security policies and practices.

<https://www.pandasecurity.com/en/mediacenter/vulnerability-assessment/>

**Types of Vulnerability Analysis:**

* **Host Assessment**: Evaluates vulnerabilities in individual servers, workstations, and other networked hosts.
* **Network Assessment**: Identifies security issues within an entire network, including routers, switches, and firewalls.
* **Wireless Assessment**: Focuses on vulnerabilities in wireless networks, including Wi-Fi security protocols and access points.
* **Database Assessment**: Analyzes database systems for vulnerabilities like weak configurations, poor access controls, and unpatched software.
* **Application Assessment**: Examines web and software applications for security flaws, such as input validation errors, authentication issues, and coding vulnerabilities.



# **Capture the Flag (CTF) Challenges**

Flag 1. What type of assessment evaluates vulnerabilities in servers and workstations?

Answer: Host

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Flag 2. Where are security issues identified in a network?

Answer: Routers

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Flag 3. Which assessment focuses on Wi-Fi security protocols?

Answer: Wireless

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Flag 4. Why is it important to prioritize vulnerabilities?

Answer: Severity

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