Main website Vulnerabilities report

And how to prevent it.

1)	Common Platform Enumeration (CPE) is a structured naming scheme for information technology systems, software, and packages. It includes a formal
	name format, a method for checking names against a system, and a
	description format for binding text and tests to a name.
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	Regarding vulnerabilities in CPE, it is important to note that CPE itself is not
	vulnerable. However, vulnerabilities can be associated with CPE names. The
	National Vulnerability Database (NVD) provides an official CPE dictionary that
	lists all official CPE names.
	To stop vulnerabilities associated with CPE names, it is important to keep
	the software up-to-date with the latest patches and security updates.
	Additionally, it is important to use security tools such as firewalls and antivirus
	software to protect against potential attacks.
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2)	Device Type vulnerabilities are a type of security vulnerability that can be
,	exploited by attackers to gain unauthorized access to a device or network. To
	prevent such vulnerabilities, it is important to follow some best practices:
	Use strong passwords: Use strong passwords that are difficult to guess and
_	avoid using the same password for multiple accounts.
	Use two-factor authentication : Two-factor authentication adds an extra layer
	of security to your accounts by requiring a second form of authentication,
	such as a code sent to your phone.
	Use firewalls and antivirus software: Firewalls and antivirus software can help
	protect against potential attacks by blocking malicious traffic and detecting
	and removing malware.
	Limit access to sensitive data: Limit access to sensitive data by using role-
	based access control (RBAC) and other access control mechanisms.
	Implement intrusion prevention systems (IPS): IPS can help detect and
Ш	prevent attacks by monitoring network traffic for signs of malicious activity.
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3)	HTTP Server Type and Version vulnerabilities can be exploited by attackers to
	gain unauthorized access to a device or network. To prevent such
	vulnerabilities, it is important to follow some best practices:
	imit the information that your web server presents: You can limit the
	nformation that your web server presents by creating/editing the following
d	irectives in httpd conf. ServerTokens Prod. This will configure Anache to not

	<u>S</u> E	end any version numbers in the server response header so that the server line
	W	ill be: Server: Apache.
	U	se security tools: Security tools such as packet-layer firewalls and web
	aj	oplication firewalls can block non-typical HTTP options to help minimize the
	ri	sk to the environment. Removing or denying those HTTP options with a
		onfiguration management program can also reduce the risk to the web
		atform.
		nplement intrusion prevention systems (IPS): IPS can help detect and prevent
		tacks by monitoring network traffic for signs of malicious activity.
		se secure HTTP headers: Use secure HTTP headers such as X-Content-Type-
		ptions, X-XSS-Protection, X-Frame-Options, and Content-Security-Policy to
		rotect against potential attacks.
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	4)	Fully Qualified Domain Name (FQDN) Resolution vulnerabilities can be
		exploited by attackers to gain unauthorized access to a device or network. To
		prevent such vulnerabilities, it is important to follow some best practices:
[Remove dangling DNS entries: Dangling DNS entries are DNS records that
		point to a deprovisioned resource. These entries can be exploited by attackers
		to redirect traffic intended for an organization's domain to a site performing
		malicious activity. To prevent this, it is important to remove any dangling DNS
		entries.
[Use FQDN filtering in network rules: You can use Fully Qualified Domain
		Name (FQDN) filtering in network rules based on DNS resolution in Azure
		Firewall and Firewall policy. This capability allows you to filter outbound traffic
		with any TCP/UDP protocol (including NTP, SSH, RDP, and more).
[Perform regular security audits: Regularly perform security audits to identify
		vulnerabilities in your systems and networks.
[Use secure HTTP headers: Use secure HTTP headers such as X-Content-Type-
		Options, X-XSS-Protection, X-Frame-Options, and Content-Security-Policy to
		protect against potential attacks.
[Limit access to sensitive data: Limit access to sensitive data by using role-
		based access control (RBAC) and other access control mechanisms.
!	5)	OS Identification vulnerabilities can be exploited by attackers to gain
	- ,	unauthorized access to a device or network. To prevent such vulnerabilities, it
		is important to follow some best practices:
[Keep your software up-to-date: Regularly update your software with the
		latest patches and security updates. This will help to fix any known
		vulnerabilities in the software.
[Use strong passwords: Use strong passwords that are difficult to guess and
		avoid using the same password for multiple accounts.

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of security to your accounts by requiring a second form of authentication,
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