

CVE (Common Vulnerabilities and Exposures):

Imagine if there's a mistake or a problem in a computer program or a piece of software, and someone finds it. To talk about this problem in a standard way, people use a special code, and that code is called a **CVE**.

CVE stands for **Common Vulnerabilities and Exposures**. It's like a unique ID or name for a specific computer problem. When experts discover a new issue in software or a system, they give it a **CVE** number, so everyone can understand and talk about that exact problem.

CVE was launched in **1999** by the MITRE corporation to identify and categorize vulnerabilities. CVE provides a free dictionary for organizations to improve their cyber security. A vulnerability is a weakness that can be exploited in a cyberattack to gain unauthorized access to or perform unauthorized actions on a computer system. An Exposure is a mistake that gives an attacker access to a system or network. Exposures can lead to data breaches, data leaks, and personally identifiable information being sold on the dark web.

Goal of CVE:

The goal of CVE is to make it easier to share information about known vulnerabilities so that cybersecurity strategies can be updated with the latest security flaws and security issue.

CVE Format:

Each CVE entry contains a standard identifier number with status indicator (i.e. "**CVE-1999-0067**", "**CVE-2014-12345**", "**CVE-2016-7654321**"), a brief description and references related vulnerability reports and advisories. Each CVE ID is formatted as **CVE-YYYY-NNNNN**. The YYYY portion is the year the CVE ID was assigned or the year the vulnerability was made public.

CVE Numbering Authorities (CNAs):

CVE Numbering Authorities (CNAs) are organizations that identify and distribute CVE ID numbers to researchers and vendors for inclusion in public announcements of new vulnerabilities. CNAs include software vendors, open source projects, coordination centers, bug bounty service providers and research groups. CNAs are a federated system that helps identify vulnerabilities and assigns them an ID without directly involving MITRE which is the primary CNA.