

Security Operations Analyst

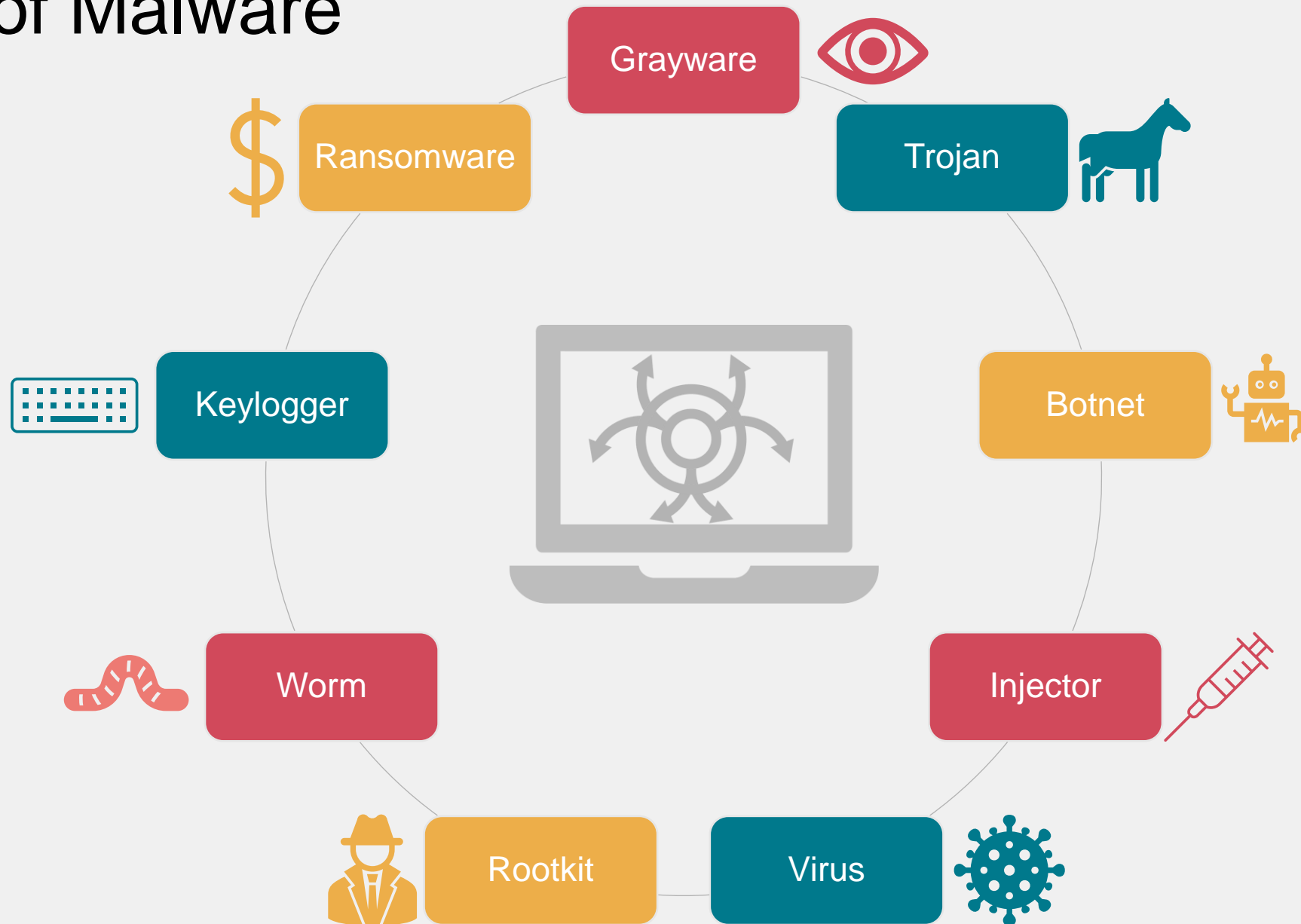
Attack Surface and Vectors

Social Engineering

- Refers to a range of attacks that manipulate users, including:
 - Baiting
 - Scareware
 - Phishing
 - Pretexting
 - Tailgating
- The victims are fooled into performing dangerous actions
- Information gathered from reconnaissance can make the attacker seem more trustworthy



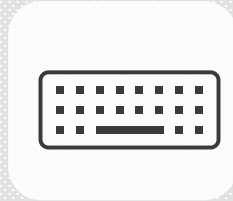
Types of Malware



Compromised Credentials



Data Breach



Keylogging



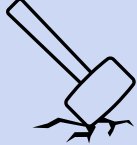
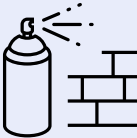
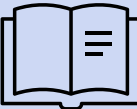



Phishing



Password
Manager

Note: You can visit websites such as <https://monitor.mozilla.org> or <https://haveibeenpwned.com> to see if your email account has been part of a data breach.

Credential Attacks

| Attack Name | | Description |
|---|---------------------|--|
|  | Brute force | <ul style="list-style-type: none">Try all combinations for a match |
|  | Password spraying | <ul style="list-style-type: none">Target multiple hosts with limited attempts (to avoid detection) |
|  | Dictionary | <ul style="list-style-type: none">Use a list of compiled passwords to find a match |
|  | Credential stuffing | <ul style="list-style-type: none">Use information from data breaches to find a match |
|  | Man-in-the-middle | <ul style="list-style-type: none">Intercept traffic to steal sensitive information |
|  | Rainbow table | <ul style="list-style-type: none">Precompile a list of passwords into hashes to find a matching hash |

Credentials Best Practices

- As an organization:
 - Ban recycling passwords
 - Enforce password complexity
 - Enforce MFA across the organization
 - Set a short password validity period
 - Set a low limit for failed login attempts
- As an end user:
 - Don't use the same passwords for personal and business accounts
 - Check to see if the password has been compromised (using online search engines)
 - Check to see if your email account has been involved in data breaches
 - Never write down any passwords
 - Do not share MFA codes
 - Do not share your cell phone

Software Vulnerabilities

- Search for software versions of assets in your organization and view a list of vulnerabilities
- Not all vulnerabilities are critical, but you need to be aware of all risks

Google » Chrome : Versions

[Versions](#) [Vulnerabilities \(3393\)](#) [Product Dashboard](#) [CVSS Report](#)

[Metasploit Modules](#)

This page lists versions of Google » Chrome which were included in CVE and/or CPE data. Please note that this list is not exhaustive, there may be other versions of this product which we are not aware of.

9258 versions found

[>](#) [1](#) [2](#) [3](#) [4](#) [5](#) [183](#) [184](#) [185](#) [186](#)

| ▼ Version | Language | Update | Edition | Target Platform | Vulnerabilities | |
|---------------|----------|--------|---------|-----------------|---------------------|---------------------------------|
| 124.0.6367.60 | | | | | 25 | Version Details |
| 107.0.5261.1 | | | | | 386 | Version Details |

Older versions have more known vulnerabilities

Vulnerability Details : CVE-2024-5274

Type Confusion in V8 in Google Chrome prior to 125.0.6422.112 allowed a remote attacker to execute arbitrary code inside a sandbox via a crafted HTML page. (Chromium security severity: High)

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Source [Chrome](#)

View at [NVD](#), [CVE.org](#)

Vulnerability category: [Execute code](#)

Software Vulnerabilities (Contd)

- Common Platform Enumeration (CPE) is a standardized scheme to identify assets
- The CPE 2.3 format follows this syntax:

```
cpe:<cpe_version>:<part>:<vendor>:<product>:<version>:<update>:<edition>:<language>:<sw_edition>:  
:<target_sw>:<target_hw>:<other>
```

- You can also search vulnerabilities based on a CPE string:

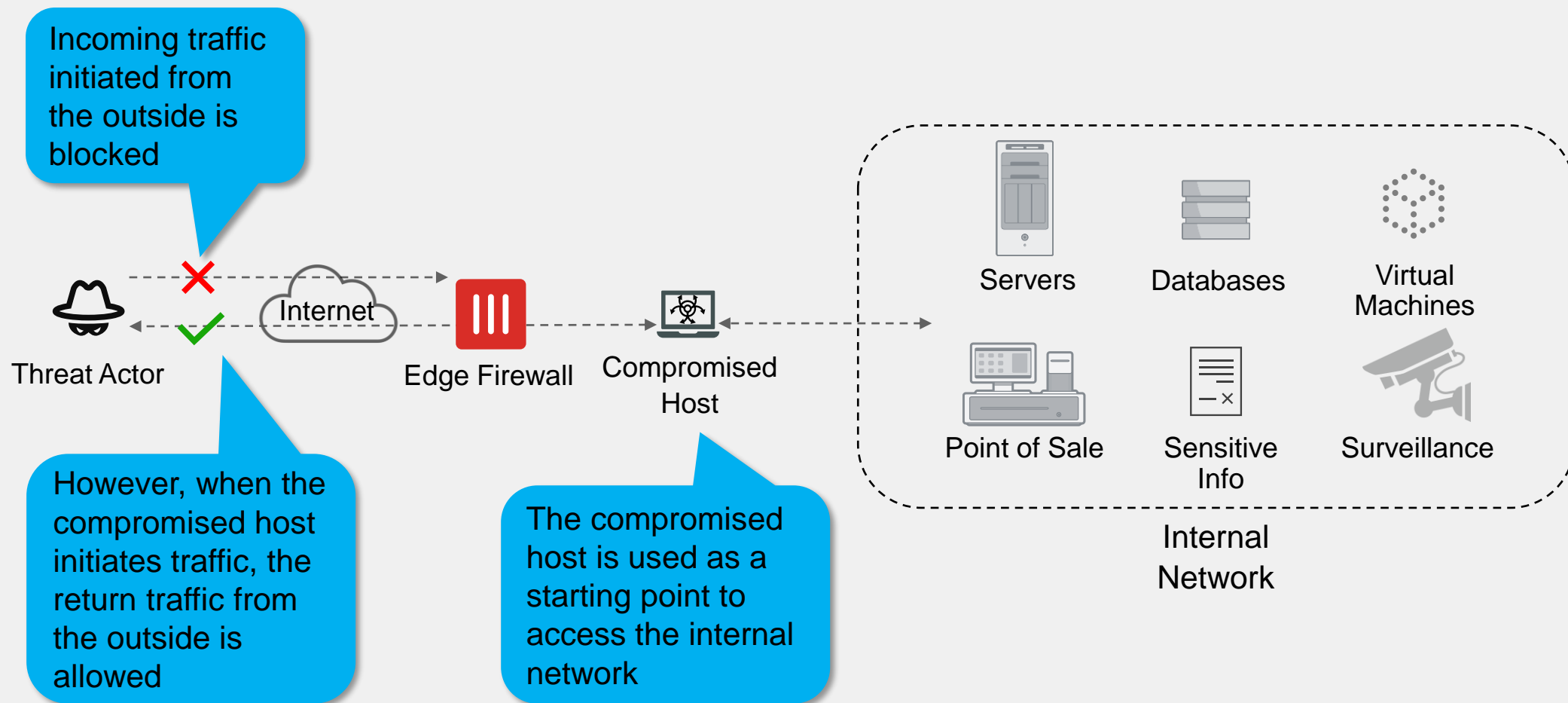
Search Vulnerabilities By CPE

CVE-2024-5499

Out of bounds write in Streams API in Google Chrome prior to 125.0.6422.141 allowed a remote attacker to execute arbitrary code inside a sandbox via a crafted HTML page. (Chromium security severity: High)

Source: Chrome

Initial Access



Review

- ✓ Describe common attack vectors
- ✓ Describe security best practices against attack vectors
- ✓ Describe defenses against attack vectors