

Sri Lanka Institute of Information Technology BSc (Hons) in IT Specialized in Cyber Security Year 2 Semester 1, 2023

## **CVE-2017-0199**

# Microsoft Office/WordPad Remote Code Execution Vulnerability w/Windows

**Individual Assignment** 

IE2012 – Systems and Network Programming
IT22617828 – D.A.U Ranasinghe

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### **Introduction**

#### What is CVE?

"Common Vulnerabilities and Exposures (CVE) is an important pillar of cybersecurity." It serves as an important foundation, providing a standardized approach for identifying and tracking security vulnerabilities in various software, hardware, and systems. The CVE system's basic goal is to create a common language for communicating vulnerabilities that is accessible not only to cybersecurity experts but also to companies and the public. At the core of the CVE system is a unique identification mechanism in which each vulnerability is granted a unique CVE identifier (CVE ID) that indicates the year and a sequential number. This technique allows for quick reference and clear discussion about security risks. Furthermore, CVE maintains a publicly accessible repository, which encourages transparency and collaboration among security professionals, suppliers, and the broader cybersecurity community. Its vendor-neutral posture promotes objectivity and equal representation for all stakeholders in the drive to protect digital ecosystems.

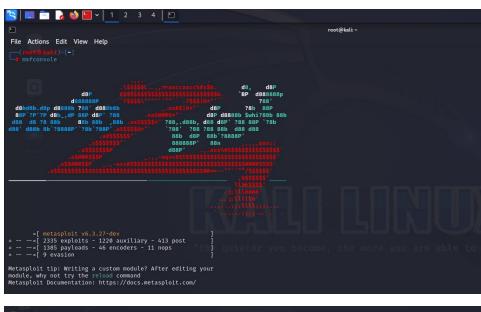
CVE, as an essential tool, plays a critical role in the identification, prioritization, and management of security vulnerabilities, assisting companies and individuals in their ongoing efforts to strengthen their systems and safeguard their vital data. Software providers rely on CVEs to communicate with their consumers about critical security fixes and upgrades in a timely manner.

# CVE-2017-0199-Microsoft Office/WordPad Remote Code Execution Vulnerability w/Windows

Because of its potential to exploit Microsoft Office and WordPad on Windows systems, CVE-2017-0199, a severe security vulnerability, caused shockwaves throughout the cybersecurity world. This flaw enabled attackers to remotely execute malicious code, posing a serious threat to system security. Microsoft quickly responded to this vulnerability by delivering a security update to minimize the risk associated with CVE-2017-0199. This incident emphasizes the continued significance of attentive security procedures, regular software upgrades, and strong defenses against known vulnerabilities in order to protect against possible threats in the ever-changing digital ecosystem.

## Methodology

For the exploitation process use the Metasploit Framework (MSFConsole). and Search by **hta.** 



```
### Name

### Na
```

In Metasploit, use the "Use" command and select the module or module number (use 8). And use the "info" command.

```
### Name

### Na
```

Using the "info" command, we can see the information attacker's file.

```
File Actions Edit View Help

No

Basic options:
Name Current Setting Required Description

FILINAME set doc

SNYNORT 0.0.0 yes The file name.

SNYNORT 0.0.0 yes The local host on retwork interface to listen on. This must be an address on the local machine or 0.0.0.0 to listen on all addresses.

SNYNORT 0.0.0 yes The local host to claim so the source of the state of t
```

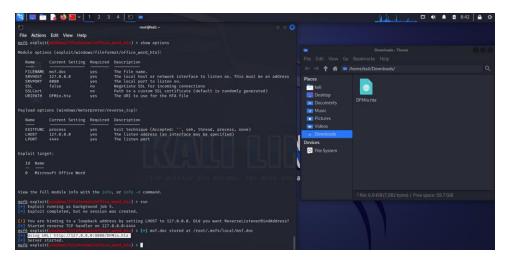
Execute the "show options" command to review the available exploit options and parameters.



Using the "set SRVHOSTS" and "set URIPATH" and check again optins.



### Finally, exploit it. And we can see hta.file



### **Conclusion**

Finally, CVE-2017-0199, also known as the "Microsoft Office/WordPad Remote Code Execution Vulnerability" on Windows computers, is a sharp reminder of the crucial significance of solid cybersecurity procedures. This security issue might have allowed hostile actors to remotely execute code, posing serious threats to data security and system integrity. Microsoft responded by issuing a security update to counter the attack, emphasizing the importance of keeping software up to date. The lesson from CVE-2017-0199 is evident as we navigate the ever-changing digital landscape: preemptive protection against known vulnerabilities, ongoing vigilance, and timely security measures are critical to protect against possible attacks in an interconnected world.

### **References**

 $\frac{https://www.mandiant.com/resources/blog/cve-2017-0199-hta-handler#:\sim:text=The\%20CVE\%2D2017\%2D0199\%20vulnerability,decoy\%20documents $\\ \%20to\%20the\%20user.$ 

https://youtu.be/B86q-6Pr1II?si=59ZpCPSlmkZ6lgZ4