

MANDIANT ADVANTAGE VULNERABILITY EXPLORER (MAVE) INTEGRATION

Developed By:	Mandiant
Latest Version:	1.22
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Key Contact:	Support (https://docs.mandiant.com/home/mandiant-support-cases)
Download:	Mandiant.MAVE-lite.v1.22.zip  (https://dyzz9obi78pm5.cloudfront.net/app/image/id/6508d7c23533ca29137b8ae7/n/mandiantmave-litev122.zip) (md5: 487b8f4d23584210a26a433843b82db8)

MAVE Technical Acceleration

Mandiant Advantage Vulnerability Explorer (MAVE) is a proprietary python3 script that lets you interact directly with the Mandiant Advantage Threat Intelligence (MATI) **API** (<https://docs.mandiant.com/home/mati-threat-intelligence-api-v4>). You can correlate your Common Vulnerability & Exposures IDs (CVE-IDs) against the vulnerability intelligence it provides.

MAVE is considered a Technical Acceleration capability for customer use. It provides an example script to demonstrate features or example code of how to perform a task with the MATI API. With the distributed license, the Mandiant team that built this product will provide support and update as time permits.

MAVE background

MAVE was primarily built for customers to easily query multiple vulnerabilities at the same time, and to review those results as a “set” of information. MAVE supports the common use case for analysts seeking quick, ad hoc answers from the MATI API regarding the results of an internal vulnerability scan, for example.

MAVE is a python3 script built to do the following:

1. Read a file from the command line
2. Extract the CVE-IDs from the file into a unique set
3. Query the MATI API for additional metadata on each vulnerability

MAVE outputs

If the API has CVE-ID matches, the results of the matches are populated into an HTML output file. You can optionally export the results into a CSV file for parsing and sorting larger datasets.

The HTML output file helps you prioritize your mitigation efforts by categorizing each vulnerability based on its Exploitation State (y-axis) and Risk Rating (x-axis). An intuitive chart that shows the number of vulnerabilities from the list that fall into each possible combination of these factors. Best practice is to focus first on vulnerabilities that have the highest values for both Exploit Rating and Risk Rating.

Wide	6	2	2	1
Confirmed	2	3	2	1
Available	3	4	2	0
No Known	7	7	3	0
	Low	Medium	High	Critical

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Showing columns: User Interaction - Associated Actors - Associated Malware - Exploitation Vectors - Published Date - Date of Disclosure - Max 20ms Day - Score (3.4) - Score (2.0)

Show **100** entries

CVE-ID	Exploit Rating	Risk Rating	User Interaction	Associated Actors	Associated Malware	Title	Score (3.4)		Score (2.0)	
							Base	Temporal	Base	Temporal
CVE-2017-5638	Wide	CRITICAL	NONE	UNC312		Apache Struts 2.6.10 Jakarta Multiport Parser Unspecified Vulnerability	10	10	10	8.3
CVE-2014-6271	Confirmed	CRITICAL	NONE			GNU Bash 4.3 Environment Variables Input Validation Vulnerability	9.8	9.8	10	8.3
CVE-2017-5715	Available	HIGH	NONE			Processor Memory Leak Vulnerability - Spectre	5.6	5.6	5.4	4.2
CVE-2017-10181	No Known	HIGH	NONE			Oracle Identity Manager 12.1.3 Default Account Unspecified Vulnerability	10	10	9.3	6.9
CVE-2017-11926	Confirmed	HIGH	REQUIRED	Sandstorm Team		Microsoft Word 2016 Font Tag Pining Unspecified Vulnerability	7.8	7.8	9.3	8.1
CVE-2017-100100	Wide	HIGH	NONE			WordPress 4.7.1 REST API Input Validation Vulnerability	7.5	7.5	7.5	6.2
CVE-2016-8205	No Known	HIGH	NONE			Brocade Network Advisor 14.2.2 Dashboard/ReceiveServer Path Traversal Vulnerability	9.8	9.8	10	7.4
CVE-2017-5181	No Known	HIGH	REQUIRED			Google Android 7.1 Mediaserver Out-of-Bounds Read Vulnerability	7.8	7.8	9.3	6.9
CVE-2016-7858	Wide	HIGH	REQUIRED	APT28		Adobe Flash Player 23.0.0.185 ActionScript Use After Free Vulnerability	8.8	8.8	9.3	7.7
CVE-2016-5393	Confirmed	HIGH	REQUIRED			Microsoft Windows Server 2012 OOXML Unspecified Vulnerability	7.8	7.8	9.3	7.7
CVE-2016-5185	Available	HIGH	NONE			PHP 7.0.8 CGI HTTP_PROXY Unspecified Vulnerability	6.1	6.1	6.4	5
CVE-2017-11282	Confirmed	MEDIUM	NONE			Adobe Flash Player 27.0.0.159 Unspecified Vulnerability	8.8	8.8	9.3	7.7
CVE-2017-12919	Available	MEDIUM	REQUIRED			Libtss 1.3.1_p8 DLLStream-Write_T_PETB Heap-Based Buffer Overflow Vulnerability	6.5	6.5	9.3	6.4
CVE-2017-12925	Available	MEDIUM	REQUIRED			Libtss 1.3.1_p8 DiffFromB Double Free Vulnerability	6.5	6.5	9.3	6.4
CVE-2017-11224	No Known	MEDIUM	REQUIRED			Adobe Acrobat Reader 2017.008.30051 Use After Free Vulnerability	8.8	8.8	9.3	6.9
CVE-2017-11235	No Known	MEDIUM	REQUIRED			Adobe Acrobat Reader 2017.008.30051 Use After Free Vulnerability	8.8	8.8	9.3	6.9
CVE-2017-11254	No Known	MEDIUM	REQUIRED			Adobe Acrobat Reader 2017.008.30051 Use After Free Vulnerability	8.8	8.8	9.3	6.9
CVE-2017-8379	Confirmed	MEDIUM	NONE			Microsoft Windows Server 2016 Dgnt.sys Buffer Overflow Vulnerability	7	7	6.6	5.5
CVE-2017-5261	Confirmed	MEDIUM	REQUIRED	APT28, UNC016, TRUMPACT	BBMANDANCE, BAMEFDS, GOODILLA, DIMPACT, NEDRIS, ... View more...	Microsoft Office 2016 EPS Use After Free Vulnerability	7.8	7.8	9.3	7.7
CVE-2017-7269	Wide	MEDIUM	NONE			Microsoft Internet Information Services 8.0 \$cStoragePathFromURL Buffer Overflow Vulnerability	9.8	9.8	10	8.3
CVE-2016-6654	No Known	MEDIUM	REQUIRED			JavaPer 1.900.29_JPC Codec Heap-Based Buffer Overflow Vulnerability	7.8	7.8	6.8	5

Up to ten columns can be displayed in the HTML output file. Columns can be added or removed as desired by selecting them from the **Showing columns** list.

Hyperlinks in the HTML output file let you quickly pivot to explore each vulnerability, associated threat actors, or malware families directly within the MATI platform.



- If a vulnerability has less than five linked actors or malware families, specific hyperlinks are provided for each actor/malware page within the MATI platform.
- If the vulnerability has more than five linked actors or malware families, only the hyperlink to the overarching vulnerability page is displayed. From there, you can select from the larger lists of actors and malware families.

The following video provides a detailed walkthrough of MAVE capabilities.

Release Notes

- **v1.22**
 - **New Features:**
 - Added support for rating_types filter for predicted, analyst, and unrated.
 - Updated the script processing limit to 50K CVE-IDs.
 - **Bug fix:** Resolved an issue to enable reuse of session connections.
- **v1.19**
 - **New feature:** Added CVE-IDs that have no API response into the log file (unenriched CVE-IDs).
 - **Bug fix:** Resolved an issue where a special character in the response CVE-ID title did not render correctly in the HTML output file.