MONTHLY OPERATIONS & INTELLIGENCE REPORT

TECHNICAL REPORT

Institute of Electrical and Electronics Engineers

February 2018

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About This Report

This is a for the MSS-BAS service.

Confidentiality

GLESEC considers the confidentiality of client's information as a trade secret. The information in this context is classified as:

- Client name and contact information
- System architecture, configuration, access methods and access control
- Security content

All the above information is kept secure to the extent in which GLESEC secures its own confidential information.

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Managed Vulnerability Service (MSS-VM)

The Managed Vulnerability Service (MSS-VM) enables organizations to minimize the risk of vulnerabilities by quickly discovering weaknesses, measuring the potential risk and exposure, reporting, providing remediation information necessary to mitigate those risks on an on-going basis and facilitating reporting and compliance with regulations and best practices.

In the address range given by the Institute of Electrical and Electronics Engineers, we have found a total of 348 hosts, of which 40 are vulnerable. These vulnerabilities are divided in the following severities as shown in the following table. Additionally you can notice the Risk Value score of your organization according to our metrics.

Total IP's Scanned	IP's Vulnerable
348	40

Risk Distribution				
Critical	High	Medium	Low	Total
20	12	42	6	80

According to the metrics:

RV= 0.072701149

The following values are to clarify RV:

RV=1 Points to every IP address in the infrastructure that are susceptible to attacks

RV=0 Points to no IP address in the infrastructure aret susceptible to attacks

RV=0.1 Point to 1/10 IP address in the infrastructure that are susceptible to attacks

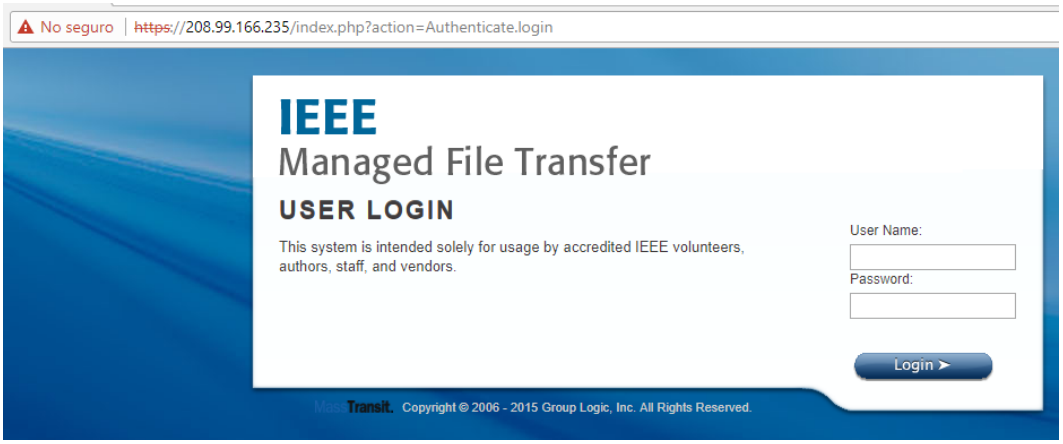
All the vulnerabilities found in your organization belong to the following categories:

Category	Critical	High	Medium	Low	Total
Web Servers	11	0	17	1	29
CGI abuses	9	11	2	0	22
General	0	0	17	0	17
FTP	0	1	5	0	6
Misc.	0	0	1	5	6

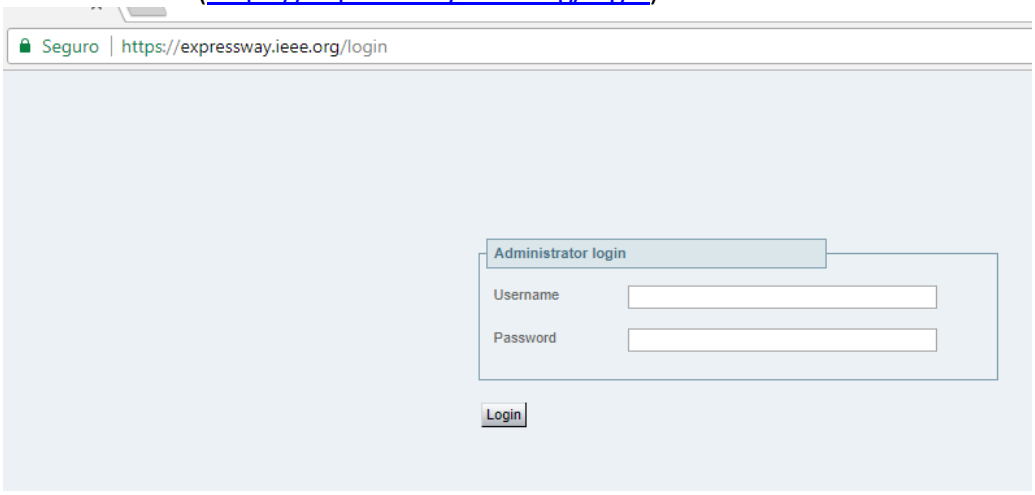
- Web Servers
- CGI Abuses
- General
- FTP
- Misc

Additional details about these vulnerabilities are presented in the Vulnerabilities found in the Institute of Electricals and Electronics Engineers by severity section of the MSS-VM on page 6.

Our analysts consider that for your organization these are the top 5 most vulnerable hosts:
200.99.166.235 (Managed File Transfer user login)



140.98.196.80 (ftp4.computer.org this page presents certificate errors and answers through HTTP)
140.98.202.40
140.98.200.215 (masstransit.ieee.org, redirects to the Managed File Transfer user login)
140.98.200.22 (https://expressway.ieee.org/login)



If the mentioned IP must be accessible from the internet, it is necessary to improve

the existing security measures. The ip address 200.99.165.235 has PHP versions that are no longer supported. The ip address 140.98.200.22 presents an administrative login page, we consider that this webpage should not be reached from the internet and we recommend removing the external access from this page.

Vulnerabilities found in the Institute of Electricals and Electronics Engineers by severity

The following section will describe in detail each vulnerability found according to their severity.

Critical Risk Level Vulnerabilities

All the vulnerabilities in this level require a PHP update and are categorized as CGI abuses.

Microsoft IIS 6.0 Unsupported Version Detection

Description

According to its self-reported version number, the installation of Microsoft Internet Information Services (IIS) 6.0 on the remote host is no longer supported.
Lack of support implies that no new security patches for the product will be released by the vendor. As a result, it is likely to contain security vulnerabilities.

Solution

Upgrade to a version of Microsoft IIS that is currently supported.

Affected Systems

Port	Hosts
80 / tcp/www	140.98.194.52, 140.98.194.53, 140.98.194.55, 140.98.194.56, 140.98.194.59, 140.98.194.61, 140.98.194.62, 140.98.194.63, 140.98.194.64, 140.98.194.160, 140.98.194.161

Microsoft Windows Server 2003 Unsupported Installation Detection

Description

The remote host is running Microsoft Windows Server 2003

Solution
Upgrade to a version of Windows that is currently supported.
Note: Support for this operating system by Microsoft ended July 14th, 2015.Lack of support implies that no new security patches for the product will be released by the vendor. As a result, it is likely to contain security vulnerabilities. Furthermore, Microsoft is unlikely to investigate or acknowledge reports of vulnerabilities.

Affected Systems
Port Hosts
n/a 140.98.194.52 140.98.194.53, 140.98.194.55, 140.98.194.56, 140.98.194.59, 140.98.194.61, 140.98.194.62, 140.98.194.63, 140.98.194.64, 140.98.194.160, 140.98.194.161

PHP 5.5.x < 5.5.24 Multiple Vulnerabilities

Description
According to its banner, the version of PHP 5.5.x running on the remote web server is prior to 5.5.24. It is, therefore, affected by multiple vulnerabilities:

1. An unspecified use-after-free error exists in the _zend_shared_memdup() function within file ext/opcache/zend_shared_alloc.c that allows an unauthenticated, remote attacker to have an unspecified impact.

2. A NULL pointer dereference flaw exists in the build_tablename() function within file pgsql.c in the PostgreSQL extension due to a failure to validate token extraction for table names. An authenticated, remote attacker can exploit this, via a crafted name, to cause a denial of service condition.

3. An out-of-bounds read error exists in the Phar component due to improper validation of user-supplied input when handling phar parsing during unserialize() function calls. An unauthenticated, remote attacker can exploit this to cause a denial of service condition or the disclosure of memory contents.

4. A memory corruption issue exists in the phar_parse_metadata() function in file ext/phar/phar.c due to improper validation of user-supplied input when parsing a specially crafted TAR archive. An

unauthenticated, remote attacker can exploit this to cause a denial of service condition or the execution of arbitrary code.

5. Multiple stack-based buffer overflow conditions exist in the phar_set_inode() function in file phar_internal.h when handling archive files, such as tar, zip, or phar files. An unauthenticated, remote attacker can exploit these to cause a denial of service condition or the execution or arbitrary code.

6. A flaw exists in the Apache2handler SAPI component when handling pipelined HTTP requests that allows an unauthenticated, remote attacker to cause a denial of service condition or the execution of arbitrary code.

7. A flaw exists in multiple functions due to a failure to check for NULL byte (%00) sequences in a path when processing or reading a file. An unauthenticated, remote attacker can exploit this, via specially crafted input to an application calling those functions, to bypass intended restrictions and disclose potentially sensitive information.

8. A type confusion error exists in multiple functions within file ext/soap/soap.c that is triggered when calling unserialize(). An unauthenticated, remote attacker can exploit this to disclose memory contents, cause a denial of service condition, or execute arbitrary code.

9. Multiple type confusion errors exist within files ext/soap/php_encoding.c, ext/soap/php_http.c, and ext/soap/soap.c that allow an unauthenticated, remote attacker to cause a denial of service condition or the execution of arbitrary code.

10. A type confusion error exists in the __PHP_Incomplete_Class() function within file ext/standard/incomplete_class.c that allows an unauthenticated, remote attacker to cause a denial of service condition or the execution of arbitrary code.

11. A type confusion error exists in the exception::getTraceAsString() function within file Zend/zend_exceptions.c that allows a remote

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attacker to execute arbitrary code.

12. A denial of service vulnerability exists due to a flaw in the bundled libmagic library, specifically in the mget() function within file softmagic.c. The function fails to maintain a certain pointer relationship. An unauthenticated, remote attacker can exploit this, via a crafted string, to crash the application.

13. A denial of service vulnerability exists due to a flaw in the bundled libmagic library, specifically in the mcopy() function within file softmagic.c. The function fails to properly handle an offset that exceeds 'bytecnt'. An unauthenticated, remote attacker can exploit this, via a crafted string, to crash the application.

14. A flaw exists in the ZEND_VM_HELPER_EX() function within file /Zend/zend_vm_def.h when handling a __get() function call. An unauthenticated, remote attacker can exploit this to cause a cause a denial of service condition.

45. A type confusion error exists in the php_stream_url_wrap_http_ex() function within file ext/standard/http_fopen_wrapper.c that allows an unauthenticated, remote attacker to execute arbitrary code.

16. A use-after-free error exists in the php_curl() function within file ext/curl/interface.c that allows an unauthenticated, remote attacker to execute arbitrary code.

17. A use-after-free error exists in the SPL component, specifically in the spl_object_storage_get_gc() function within file ext/spl/spl_observer.c. An unauthenticated, remote attacker can exploit this to execute arbitrary code.

Solution
Upgrade to PHP version 5.5.x.or later.

Output
Version source : X-Powered-By: PHP/5.5.16
Installed version : 5.5.16

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Fixed version : 5.5.24
Affected Systems
443 / tcp / www 208.99.166.235

All the vulnerabilities in this level require a PHP update and are categorized as CGI abuses.

High Risk Level Vulnerability

All the vulnerabilities in this level require a PHP update and are categorized as CGI abuses and some of them are also affecting FTP servers. These vulnerabilities are affecting the same system as the critical vulnerabilities; refer to that section for details on the affected system.

FTP Privileged Port Bounce Scan

Description
It is possible to force the remote FTP server to connect to third parties using the PORT command.
The problem allows intruders to use your network resources to scan other hosts, making them think the attack comes from your network.

Solution
See the CERT advisory in the references for solutions and workarounds.

Affected Systems

Port	Hosts
21 and 990/ tcp / ftp	140.98.196.80

Medium Risk Level Vulnerability

All the vulnerabilities in this level require a PHP update and are categorized as CGI abuses; there are also weaknesses in SSL cipher suite and in the FTP server.

HTTP TRACE / TRACK Methods Allowed

Description
The remote web server supports the TRACE and/or TRACK methods. TRACE and TRACK are HTTP methods that are used to debug web server connections.

Solution
Disable these methods. Refer to the plugin output for more information.

Affected Systems

Port	Hosts
80 / tcp / http_proxy	140.98.202.41, 140.98.194.3, 140.98.194.119, 140.98.202.53, 140.98.202.41, 140.98.193.157, 140.98.202.89, 140.98.202.49

SSL Medium Strength Cipher Suites Supported

Description
The remote host supports the use of SSL ciphers that offer medium strength encryption. Nessus regards medium strength as any encryption that uses key lengths at least 64 bits and less than 112 bits, or else that uses the 3DES encryption suite.

Solution
Reconfigure the affected application if possible to avoid use of medium strength ciphers.

Affected Systems

Port	Hosts
443 / tcp / http_proxy	140.98.194.156, 140.98.196.190, 140.98.200.35, 140.98.200.36, 140.98.200.85, 140.98.200.181, 208.99.166.235
21 / tcp	140.98.194.110
5061 / tcp / sip	140.98.200.22

F5 BIG-IP Cookie Remote Information Disclosure

Descripción
El host remoto parece ser un equilibrador de carga F5 BIG-IP. El equilibrador de carga codifica la dirección IP del servidor web real por el que actúa en nombre de una cookie. Además, la información después de 'BIGipServer' es configurada por el usuario y puede ser el nombre lógico del dispositivo. Estos valores pueden divulgar información confidencial, como direcciones IP internas y nombres.

Affected Systems

443 / tcp / www	140.98.202.89, 140.98.202.45, 140.98.202.117, 140.98.202.48 140.98.202.102, 140.98.202.116

80 / tcp / www 140.98.202.40 140.98.202.53

SSL Certificate Signed Using Weak Hashing Algorithm

Description
The remote service uses an SSL certificate chain that has been signed using a cryptographically weak hashing algorithm (e.g. MD2, MD4, MD5, or SHA1). These signature algorithms are known to be vulnerable to collision attacks. An attacker can exploit this to generate another certificate with the same digital signature, allowing an attacker to masquerade as the affected service.

Output
The following certificates were part of the certificate chain sent by
the remote host, but contain hashes that are considered to be weak.
|-Subject : C=US/ST= /L= /O=IEEE/OU= /CN= /E=
|-Signature Algorithm : SHA-1 With RSA Encryption
|-Valid From : Jun 03 15:54:10 2017 GMT
|-Valid To : Jun 03 15:54:10 2018 GMT

Affected Systems
21 / tcp 140.98.194.110

Output
The following certificates were part of the certificate chain sent by the remote host, but contain hashes that are considered to be weak.
|-Subject : C=US/ST=New
Jersey/L=Piscataway/O=IEEE/OU=IT/CN=xploreqa.ieee.org
|-Signature Algorithm : SHA-1 With RSA Encryption
|-Valid From : Jun 10 20:27:41 2009 GMT
|-Valid To : Jun 08 20:27:41 2019 GMT

Affected Systems
443 / tcp 140.98.202.16

Output
The following certificates were part of the certificate chain sent by
the remote host, but contain hashes that are considered to be weak.
|-Subject : C=US/ST=New

Jersey/L=Piscataway/O=IEEE/OU=IT/CN=xploreuat.ieee.org
|-Signature Algorithm : SHA-1 With RSA Encryption
|-Valid From : Jan 12 19:18:58 2010 GMT
|-Valid To : Jan 10 19:18:58 2020 GMT

Affected Systems
443 / tcp / http_proxy140.98.202.40

Solution
Contact the Certificate Authority to have the certificate reissued.

Return Of Bleichenbacher's Oracle Threat (ROBOT) Information Disclosure

Description
The remote host is affected by an information disclosure vulnerability. The SSL/TLS service supports RSA key exchanges, and incorrectly leaks whether or not the RSA key exchange sent by a client was correctly formatted. This information can allow an attacker to decrypt previous SSL/TLS sessions or impersonate the server.

Solution
Upgrade to a patched version of the software. Alternatively, disable RSA key exchanges.

Affected Systems
443 / tcp / www 208.99.166.247, 208.99.166.235

Note that this plugin does not attempt to recover an RSA ciphertext, however it sends a number of correct and malformed RSA ciphertexts as part of an SSL handshake and observes how the server responds. This plugin attempts to discover the vulnerability in multiple ways, by not completing the handshake and by completing it incorrectly, as well as using a variety of cipher suites. Only the first method that finds the service to be vulnerable is reported.

Serv-U < 14.0.2.0 FTP Server SSL Renegotiation DoS

Description
According to its banner, the installed version of Serv-U is earlier than 14.0.2.0 and is, therefore, potentially affected by a denial of service vulnerability. A remote attacker

could cause denial of service conditions by continually sending SSL renegotiation requests to the application.

Solution
Upgrade to Serv-U version 14.0.2.0 or later.

Affected Systems
990 and 21 / tcp / ftp 140.98.196.80

Serv-U FTP Server < 15.0.0.0 Multiple Security Vulnerabilities

Description
According to its banner, the installed version of Serv-U is a version prior to version 15.0.0.0. It is, therefore, potentially affected by multiple vulnerabilities:

1 An unspecified error exists related to SSL that can be exploited to cause a denial of service.

2. An unspecified error exists when using the 'Require Fully Qualified Membership' LDAP login settings.

Solution
Upgrade to Serv-U version 15.0.0.0 or later.
Affected Systems
990 and 21 / tcp / ftp 140.98.196.80

Apache Server ETag Header Information Disclosure

Description
The remote web server is affected by an information disclosure vulnerability due to the ETag header providing sensitive information that could aid an attacker, such as the inode number of requested files.

Solution
Modify the HTTP ETag header of the web server to not include file inodes in the ETag header calculation. Refer to the linked Apache documentation for more information.

Affected Systems
443 / tcp / www 140.98.202.49

SSH Weak Algorithms Supported

Description
GLESEC has detected that the remote SSH server is configured to use the Arcfour stream cipher or no cipher at all. RFC 4253 advises against using Arcfour due to an issue with weak keys.

Solution
Consult product documentation to remove the weak ciphers.

Affected Systems
21 / tcp / ssh 140.98.200.215

Low Risk Level Vulnerability

The vulnerabilities in this category are weaknesses in SSH servers.

SSH Server CBC Mode Ciphers Enabled

Description
The SSH server is configured to support Cipher Block Chaining (CBC) encryption. This may allow an attacker to recover the plaintext message from the ciphertext.

Solution
Consult product documentation to disable CBC mode cipher encryption, and enable CTR or GCM cipher mode encryption.

Affected Systems
21 / tcp / ssh 140.98.200.215, 140.98.196.80, 140.98.200.22

Web Server Load Balancer Detection

Description
The remote web server seems to be running in conjunction with several others behind a load balancer. Knowing that there are multiple systems behind a service could be useful to an attacker as the underlying hosts may be running different

operating systems, patchlevels, etc.
Solution
Update the web configuration to hide information disclosure.

Affected Systems
443 / tcp / www 140.98.193.235

Managed Breach Attack Simulation Service (MSS-BAS)

The Managed Breach Attack Simulation Service (MSS-BAS) is a collection of advanced pre-exploitation, post- exploitation and awareness testing services. The testing is on real targets based on simulated attacks; therefore these provide conclusive (no false positive) results. The different attack vectors test the organization's configurations, countermeasures, implementations and ability to respond in a continuous fashion producing valuable intelligence and recommendations.

Summary

The MSS-BAS e-mail Vector enables organizations to know different metrics that are used to measure and know your e-mail security position: an "e-mail Security Exposure Level", a "Risk Score" and types and severity of the malware that you are expose to, via the e-mail attack vector.

The e-mail Security Exposure Level can be "Low", "Medium" and "High" and it is based in the "Risk Score" which is a percentage. The Risk Score is a Key Parameter Indicator, KPI, and it is used as an indicator of an increase/decrease from report to report, of how is the "overall" security in your organization. In this case related to the e-mail attack vector

The Risk Score is calculated based on different parameters like the number of e-mails containing malicious software that are able to penetrate your security and other factors that are taken into consideration based on the type of malware and the "risk" for that malware. For instance for Ransomware, the Risk is calculated evaluating also parameters like number of "double clicks" needed to open the malicious file sent to the organization and the impact for your organization, of this type of malware if it is able to penetrate your security. The "Risk" for each malware is also classified as High Probability, Medium Probability and Low Probability

depending in the type and probability of occurrence. For instance, Ransomware has a very high impact to the organization, but there is Low, Medium y High probability Ransomware, depending of the probability of occurrence.

The "e-mail Security Exposure Level" for your company this month was classified as "Medium" based on the "Risk Score" of 32%.

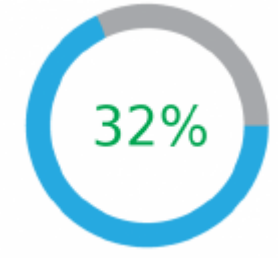
In this simulation 78% of the different file types, holding a malicious payload within, were able to penetrate your security measures (see "Top 10 Penetrated File Types). This is something that should be of concern to the organization because this means that, as right now, you do not have a proper set of security measures in place that are blocking or dropping any e-mails, containing the type of malware that we used in this simulation.

A very important detail that can be observed in the Assessment Result (see below in the Mail Risk Analysis per Type Section) is that the penetration of files containing malicious Links was of 73%, Exploit 31% followed by Ransomware was of 20%. After these threats enter the network they can be executed in many different ways causing high impact to the organization.

Mail Attack Summary

Within the set of threats that can penetrate via email, exists a high percentage of penetration in critical threats mainly Links, Exploits, followed by Ransomware. For our analysts the Risk Score for your organization is of level Medium. It has to be clear that only the e-mail vector was used for this proof of concept, but the proof of concept for this vector is based on real threats (you can see the description in Appendix A). All vectors, in a continuous cycle have to be considered to give an idea of the security state of all you infrastructure.

Risk conditions based in test MSS-BAS e-mail vector. February 2018
E-mail Security Exposure Level: Medium
Risk Score



Simulation Summary 1139/4127

Risk Level	*Sent*	*Penetrated*
High	550	62
Medium	1220	666
Low	2357	411

MSS-BAS e-mail vector Risk Summary Matrix

E.g: Vulnerable to a Medium Probability Ransomware like WannaCry	**4%**	**5%**	*Impact →*	E.g.: Vulnerable to a High Probability Ransomware like WannaCry
E.g.: Vulnerable to a Low Probability Payload like Meterpreter Shell	**36%**	**55%**		E.g.: Vulnerable to a High Probability Payload like Meterpreter Shell

Probability →

In Appendix A you can find a description on each malware used for the simulation, the similarity to the real ones, the attack vectors and mitigation techniques for each one.

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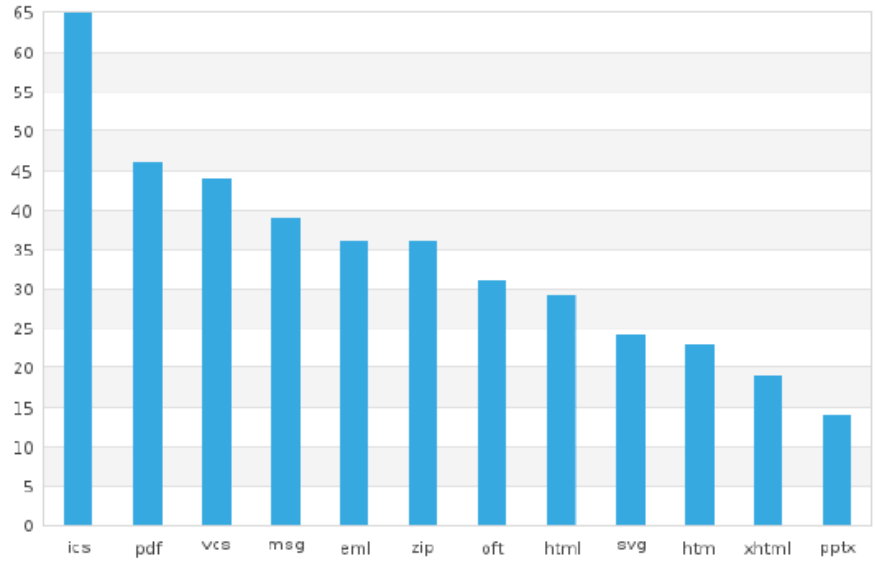
Mail Attack Mitigation Summary

Below is the 10 Top of Files Types that were able to penetrate your security with malware.

Top 10 Penetrated file types



Mail Relay, Content disarm and reconstruction or sandbox solutions:

For ics files it will solve 11% of the flaws
For pdf files it will solve 8% of the flaws
For vcs files it will solve 7% of the flaws
For msg files it will solve 7% of the flaws
For eml files it will solve 6% of the flaws
For zip files it will solve 6% of the flaws
For oft files it will solve 5% of the flaws
For html files it will solve 5% of the flaws
For svg files it will solve 4% of the flaws
For htm files it will solve 4% of the flaws
For xhtml files it will solve 3% of the flaws

Refer to the appendix A to find more details in mitigation techniques for each file type.

Mail Risk Analysis per Type

Assessment Result

11%
Worm
Software using Common techniques in order to spread itself inside a Windows based network.

20%
Ransomware
Software encrypting user files and denies access until ransom is paid

10%
Malware
Malware, is any software used to disrupt computer operations, gather sensitive information, gain access to private computer systems, or display unwanted advertising.

24%
Dummy
Dummy category is code execution proof of concept without actual damage to the system.

31%
Exploit
Known and signed exploits of commonly used software that leads to code execution because of vulnerabilities discovered.

30%
Payload
Common attacks delivered to clients like: Data extraction attacks or Stagers downloading the real malware.

73%
Links
A malicious website is a site that attempts to install malware onto your device.

High Risk

Here are the findings with high risk that penetrated your organization:
Malware with 33 Payloads in high risk.
Ransomware with 20 Payloads in high risk.
Worm with 9 Payloads in high risk.

Medium Risk

Here are the findings with medium risk that penetrated your organization:
Links with 549 Payloads in Medium risk.
Payload with 45 Payloads in Medium risk.
Exploit with 30 Payloads in Medium risk.
Malware with 18 Payloads in Medium risk.
Ransomware with 17 Payloads in Medium risk.
Worm with 7 Payloads in Medium risk.

Summary by type/risk (see graph below)

757 Links sent and 549 penetrated your organization:
549 of the links are in Medium Risk

464 Payload sent and 140 penetrated your organization
95 of the files are in Low Risk
45 of the files are in Medium Risk

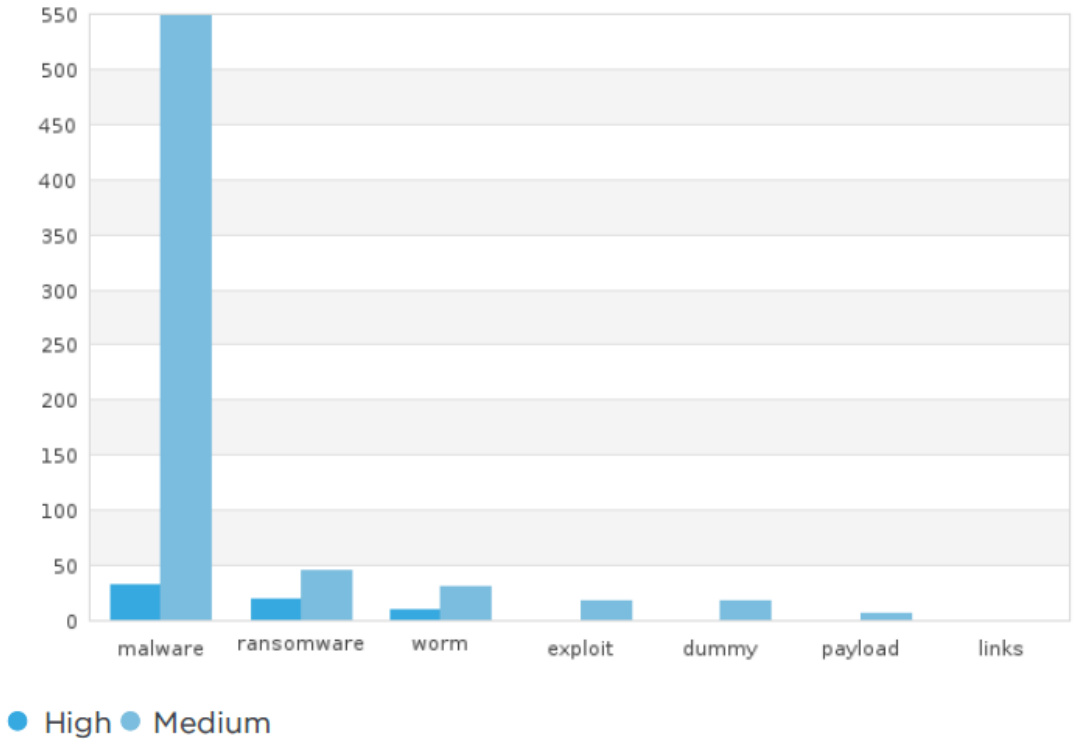
465 Worm sent and 49 penetrated your organization:
33 of the files are in Low Risk
7 of the files are in Medium Risk
9 of the files are in High Risk

474 Ransomware sent and 97penetrated your organization:
60 of the files are in Low Risk
17 of the files are in Medium Risk
20 of the files are in High Risk

1270 Malware sent and 125 penetrated your organization:
74 of the files are in Low Risk
18 of the files are in Medium Risk
33 of the files are in High Risk
562 Dummy sent and 137 penetrated your organization:
137 of the files are in Low Risk

135 Exploit sent and 42 penetrated your organization:
12 of the files are in Low Risk
30 of the files are in Medium Risk

Risk: the risk level is evaluated by the number of click needed to open the malicious file sent to your organization and the impact of the malicious file.



Successful High level simulated attacks

20 out of 62 High risk files able to penetrate the perimeter were Ransomware. This specific type of ransomware was categorized as a high risk, because the amount of clicks required to execute it are considerably low.

Malicious code can be hidden within different other file types so that it is not recognized and stopped by regular security countermeasures. The malicious Ransomware was hidden within 20 different file types:

- DOTM: A DOTM file is a document template created by Microsoft Word. It contains the default layout, settings, and macros for a document. DOTM files are used to create a new .DOCM document with embedded macros.
- PDF: A PDF file is a multi-platform document created PDF application. The PDF format is commonly used for saving documents and publications in a standard format that can be viewed on multiple platforms.
- XLAM: File used by Microsoft Excel, contains a macro-enabled add-in, which provides extra functionality and tools that may execute macros.
- XLSM: An XLSM file is a macro-enabled spreadsheet created by Microsoft Excel. It contains worksheets of cells arranged by rows and columns as well

as embedded macros programmed in the VBA language.

- XLTM: Template file created by Microsoft Excel, contains default settings and layout properties for a macro-enabled spreadsheet; used to create a new macro-Enabled workbook .XLSM file.
- HTML: This is the standard web page file type on the internet. The content of this type of files is accessible through any web browser.
- XLS: An XLS file is a spreadsheet file created by Microsoft Excel. An XLS spreadsheet may contain one or more worksheets, which store and display data in a table format.
- ZIP: A ZIP file is an archive that contains one or more files compressed or "zipped" using Zip compression.
- XLSB: An XLSB file is a spreadsheet file created by Microsoft Excel. It contains a spreadsheet of cells arranged by a grid of rows and columns, as well as charts, macros, and formatting. XLSB files are saved in a binary format.
- EML: An EML file is an email message saved by Microsoft Outlook or other e-mail programs. It may also contain an e-mail attachment, which is a file sent with the message.
- ICS: this extension refers to calendar application files, most common apps that use this type of files are: Microsoft Outlook, IBM Lotus Notes, Apple Calendar, Yahoo! Calendar, among others.
- ACCDB: An ACCDB file is a database created with Microsoft Access 2007 or later. It typically contains data organized into tables and fields.
- VCS: Contains information about an event or appointment, saved in the vCalendar format; includes the event date and time and other information about the event.
- XLK: Backup file created by Microsoft Excel; contains a backup copy of an .XLS file.
- MDB: An MDB file is a database file created by Microsoft Access. It contains the database structure (tables and fields) and database entries (table rows).
- HTM: An HTM file is an HTML web page used by web browsers. It contains markup code that is stored a plain text format and is used to display and format text and images in a web browser.
- 7z: A 7Z file is a compressed archive created with Igor Pavlov's 7-Zip file compression utility.
- XLL: A special type of file similar to the DLL libraries but exclusively used by Excel.
- SVG: An SVG file is a graphics file that uses a two-dimensional vector graphic format. It describes images using a text format that is based

on XML.

- XLT: An XLT file is a template created by Microsoft Excel. It contains default formatting and data for a spreadsheet and is used as a basis for creating new .XLS files.

Even though all the other tested threats: Payload, Worms, Links, Malware, Exploits and Dummy were able to penetrate the perimeter, we consider Ransomware alone as the highest risk due to its probability of occurrence and possible negative impact. Please refer to the recommendations number 2 and 3 below.

Successful Medium level simulated attacks

666 files within this severity indicator were able to penetrate the perimeter and they can be broken down into 6 different categories:

- Links: 549 files that include links to malware, phishing and scam webpages.
- Payload: 45 files that have several behaviors such as retrieve username and emails stored in the computer, take screenshots of the user desktop periodically and execute Office macros automatically that could lead to further damages.
- Exploit: 30 file targeting several vulnerabilities: a stack overflow attack MSCOMCTL.OCX, in Microsoft Office 2007 and 2010; a vulnerability in APDF WAV to MP3 v1.0.0; an undocumented feature in Microsoft Word that allows attackers to obtain information about the operating system and the user. Please refer to the recommendations section, item number 1.
- Malware: 18 files were able to penetrate the perimeter. The most common behavior of the malware is to frequently generate pop-ups, disrupting the user's activities and asking for his username and/or password to get rid of the pop-up. Another behavior is to constantly generate UAC notifications, asking the user to allow the execution of a file, allowing the malware to obtain administrator rights.
- Ransomware: 17 files were able to penetrate the perimeter at this level as well, what this means is that using different combinations for containing these malicious codes were successful in entering the network. These types are considered medium risk because they require more clicks to be executed, as contained in more different types of files. The ones that were able to access your network were:
    - SVG-ZIP-EXE
    - VCS-PDF-DOTM

- ZIP-ICS-XLL
- EML-ZIP-XLSB
- OFT-PDF-XLAM
- PDF-EML-XLTM
- VCS-ICS-XLM
- EML-PDF-XSM
- GZ-PDF-ACCDB
- ICS-VCS-XLK
- XHTML-ICS-MDB
- LZH-PDF-ACCDB
- MSG-VCS-XLT
- LHA-PDF-ACCDB
- RAR-PDF-ACCDB
- CAB-PDF-ACCDB
- TAR-PDF-ACCDB
- 7z-EML-PDF-ACCDB

This ransomware has the same impact to your Organization if executed, but it is little less accessible. Please refer to the recommendations section, items number 2 and 3.

- Worms: 7 files that run automatically by the Office Macro, scans ports and infects other computers in the network.

The other types of attacks sent by this simulation were blocked by your Organization security countermeasures.

Successful Low level simulated attacks

411 out of 2357 low risk malicious codes were able to access your network. These types of files are considered of low risk because (a) they require many clicks to execute or (b) even if they were executed they don't cause a high impact. By securing the network against higher severity criteria mentioned before in this report, it is likely that the amount of low risk malware that penetrated is also reduced.

Recommendations

Despite the growing investment in cyber security, sophisticated attackers still manage to bypass even the most advanced security systems, including next-generation, non-signature based security. The reason is that advanced threats are coded to look like legitimate behavior. Therefore, they are extremely difficult to identify using conventional systems and can proceed unimpeded within the target networks.
This simulation showed that various attacks may compromise your local network.

1. It's been detected that many of e-mail containing malicious files that use exploits were able to penetrate the network. Old versions of software are vulnerable to many known exploits, malicious code can be hidden within files that should be allowed because they are of regular usage and bypass many security measures. It is important to keep the software updated with the latest patches to prevent attackers from using these exploits, this process can be done manually or automated using an endpoint manager to check and enforce compliance policies.
2. Although there were some ransomware classified as "Medium Risk" or "Low Risk" their impact to the organization is the same as a "High Risk" Ransomware and should not be dismissed. The lower risk level comes from the fact that these ransomware are contained in several other file types and require a lot more "double-clicks" to actually open the malicious code.
3. During this month, malicious code embedded in Office macros was one of the most common ways to penetrate the perimeter. Consider disabling macro execution in the GPO.
4. Specific recommendations:
    a. See Appendix A for details for each of the simulated attacks
    b. Configure a Mail-Relay rule to block the penetration vector exterior file type.
    c. Anti-Virus definition update might be required.
    d. Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
    e. Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.

Appendix A

From the total amount of samples sent, our analysts team classified 62 of the samples as High Risk level and are presented in the Appendix.

Emails Command And Control Malware Risk Level: High

Description

Cnc is a malware listening to general commands from a command and control server. Command Examples: Usernames, E-Mails, Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.

UAC Nagger Trojan Malware Risk Level: High

Description

malware attacking the user interface and forcing him to click Yes when UAC Prompts for authentication. When the user clicks Yes, he's elevated permissions token is stolen.
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Mitigation

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- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Credentials Nagger Trojan Malware Risk Level: High

Description

malware attacking user and forcing him to enter username and password. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

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- Configure a Mail-Relay rule to block the penetration vector exterior file type.
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- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .html with file size that is larger than 10k.

UAC Nagger Trojan Malware Risk Level: High

Description

malware attacking the user interface and forcing him to click Yes when UAC Prompts for authentication. When the user clicks Yes, he's elevated permissions token is stolen.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

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Description
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- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Worm Risk Level: High

Description
worm is scanning ports and using the current user primary token to infect other computers in the network. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation
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- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
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- Contact the Security Product Vendor in-order to solve the security flaw.
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- Contact the Security Product Vendor in-order to solve the security flaw.
- Block .htm files larger than 10k
- Configure Group Policy to block Office Macros from running.

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malware attacking the user interface and forcing him to click Yes when UAC Prompts for authentication. When the user clicks Yes, he's elevated permissions token is stolen.
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- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .htm files larger than 10k

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Description

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Description

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- Contact the Security Product Vendor in-order to solve the security flaw.
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Ransomware Risk Level: High

Description

ransomware encrypts all files in the user Documents folder.
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- Configure Group Policy to block Office Macros from running.
- Block .htm files larger than 10k

Ransomware Risk Level: High

Description
ransomware encrypts all files in the user Documents folder.

New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

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- Block .ics files larger than 10k

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Description

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- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Block .eml files larger than 10k

Credentials Nagger Trojan Malware Risk Level: High

Description

malware attacking user and forcing him to enter username and password. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .eml files larger than 10k

Credentials Nagger Trojan Malware Risk Level: High

Description

malware attacking user and forcing him to enter username and password. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.

- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .ics files larger than 10k

Ransomware Risk Level: High

Description

ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .eml files larger than 10k

Worm Risk Level: High

Description

worm is scanning ports and using the current user primary token to infect other computers in the network. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.

- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Ransomware Risk Level: High

Description
ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation
- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .vcs files larger than 10k

Ransomware Risk Level: High

Description
ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation
- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code

Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Worm Risk Level: High

Description
worm is scanning ports and using the current user primary token to infect other computers in the network. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation
- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Credentials Nagger Trojan Malware Risk Level: High

Description
malware attacking user and forcing him to enter username and password. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation
- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

- Block .html with file size that is larger than 10k.

UAC Nagger Trojan Malware Risk Level: High

Description

malware attacking the user interface and forcing him to click Yes when UAC Prompts for authentication. When the user clicks Yes, he's elevated permissions token is stolen.

New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Credentials Nagger Malware Risk Level: High

Description

Cymulate malware attacking user and forcing him to enter username and password. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

UAC Nagger Trojan Malware Risk Level: High

Description

malware attacking the user interface and forcing him to click Yes when UAC Prompts for authentication. When the user clicks Yes, he's elevated permissions token is stolen.

New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .vcs files larger than 10k.

Credentials Nagger Trojan Malware Risk Level: High

Description

malware attacking user and forcing him to enter username and password. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .ics files larger than 10k.

Ransomware Risk Level: High

Description

ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .eml files larger than 10k.

Ransomware Risk Level: High

Description

ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .vcs files larger than 10k.

Ransomware Risk Level: High

Description

ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Ransomware Risk Level: High

Description

ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .htm files larger than 10k

Ransomware Risk Level: High

Description
ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .ics files larger than 10k

Ransomware Risk Level: High

Description
ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Worm Risk Level: High

Description

worm is scanning ports and using the current user primary token to infect other computers in the network. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Ransomware Risk Level: High

Description

ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .ics files larger than 10k.

Ransomware Risk Level: High

Description

ransomware encrypts all files in the user Documents folder.

New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .svg files larger than 10k.

Worm Risk Level: High

Description

worm is scanning ports and using the current user primary token to infect other computers in the network. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .ics files larger than 10k.

UAC Nagger Trojan Malware Risk Level: High

Description

malware attacking the user interface and forcing him to click Yes when UAC Prompts

for authentication. When the user clicks Yes, he's elevated permissions token is stolen.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Contact the Security Product Vendor in-order to solve the security flaw.

Ransomware Risk Level: High

Description
ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.
- Block .vcs files larger than 10k.

Emails Command And Control Malware Risk Level: High

Description
Cnc is a malware listening to general commands from a command and control server. Command Examples: Usernames, E-Mails, Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this

computer.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.

Out of all samples sent, our analysts team classified 68 worth mentioning Medium Risk samples and are presented in this Appendix.

Ransomware Risk Level: Medium

Description

ransomware encrypts all files in the user Documents folder. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

Ransomware Risk Level: Medium

Description

ransomware encrypts all files in the user Documents folder. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

MS Word Comctlbof Exploit Risk Level: Medium

Description
This file exploits a stack buffer overflow in MSCOMCTL.OCX. It uses a malicious RTF to embed the specially crafted MSComctlLib.ListViewCtrl.2 Control as exploited in the wild on April 2012. This module targets Office 2007 and Office 2010 targets. The DEP/ASLR bypass on Office 2010 is done with the Ikazuchi ROP chain proposed by Abysssec. This chain uses "msgr3en.dll", which will load after office got load, so the malicious file must be loaded through "File / Open" to achieve exploitation. Shellcode: Dummy MessageBox.

Mitigation
• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Anti-Virus definition update might be required.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

Standard Payload Payload Risk Level: Medium

Description
Payload is a malicious file retrieving computer Usernames, Emails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation
- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.

- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.

Ransomware Risk Level: Medium

Description

ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

Worm Risk Level: Medium

Description

worm is scanning ports and using the current user primary token to infect other computers in the network. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.
The Office Macro automatically running the malicious file.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types
and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.
• Configure Group Policy to block Office Macros from running.

Worm Risk Level: Medium

Description

worm is scanning ports and using the current user primary token to infect other computers in the network. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.
The Office Macro automatically runs the malicious file.

Mitigation

- Configure a Mail-Relay rule to block the penetration vector exterior file type.
- Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
- Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
- Contact the Security Product Vendor in-order to solve the security flaw.
- Configure Group Policy to block Office Macros from running.

Ransomware Risk Level: Medium

Description

ransomware encrypts all files in the user Documents folder.
New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

Standard Payload: Medium

Description

Payload is a malicious file retrieving computer Usernames,EMails
and takes a Printscreen. New malicious files or files that were Packed by Packers,

Crypters or Protectors are able to run on this computer.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

MS Word comctlbof Exploit: Medium

Description

This file exploits a stack buffer overflow in MSCOMCTL.OCX. It uses a malicious RTF to embed the specially crafted MSComctlLib.ListViewCtrl.2 Control as exploited in the wild on April 2012. This module targets Office 2007 and Office 2010 targets. The DEP/ASLR bypass on Office 2010 is done with the Ikazuchi ROP chain proposed by Abysssec. This chain uses "msgr3en.dll", which will load after office got load, so the malicious file must be loaded through "File / Open" to achieve exploitation. Shellcode: Dummy MessageBox

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Anti-Virus definition update might be required.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

Waveform Audio File Format: Medium

Description

This file exploits a buffer overflow in APDF WAV to MP3 v1.0.0. When the application is used to import a specially crafted m3u file, a buffer overflow occurs allowing arbitrary code execution. Shellcode: Dummy MessageBox

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Anti-Virus definition update might be required.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

Standard Payload: Medium

Description

Payload is a malicious file retrieving computer Usernames,Emails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.
• Block .ics with file size that is larger than 10k.

Standard Payload: Medium

Description

Payload is a malicious file retrieving computer Usernames,EMails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as

presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
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Payload is a malicious file retrieving computer Usernames,EMails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

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• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.
• Block .vcs with file size that is larger than 10k.

Standard Payload: Medium

Description
Payload is a malicious file retrieving computer Usernames,EMails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation
• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.

• Contact the Security Product Vendor in-order to solve the security flaw.
• Block .vcs with file size that is largerthan 10k.

Emails Command And Control: Medium

Description

Cnc is a malware listening to general commands from a command and control server. Command Examples: Usernames, E-Mails, Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.
The Office Macro automatically running the malicious file.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.
• Configure Group Policy to block Office Macros from running.

Standard Payload: Medium

Description

Payload is a malicious file retrieving computer Usernames,EMails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.

• Contact the Security Product Vendor in-order to solve the security flaw

Standard Payload: Medium

Description
Payload is a malicious file retrieving computer Usernames,EMails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.
The Office Macro automatically running the malicious file.

Mitigation
• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
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• Configure Group Policy to block Office Macros from running.

Emails Command And Control: Medium

Description
Cnc is a malware listening to general commands from a command and control server. Command Examples: Usernames, E-Mails, Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

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• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.

Standard Payload: Medium

Description
Payload is a malicious file retrieving computer Usernames,Emails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.
The Office Macro automatically running the malicious file.

Mitigation
• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.
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UAC Nagger Trojan: Medium

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malware attacking the user interface and forcing him to click Yes when UAC Prompts for authentication. When the user clicks Yes, he's elevated permissions token is stolen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.

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• Block .eml with file size that is larger than 10k.

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• Configure Group Policy to block Office Macros from running.
• Block .ics with file size that is larger than 10k.

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Worm: Medium

Description

worm is scanning ports and using the current user primary token to infect other computers in the network. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.
The Office Macro automatically running the malicious file.

Mitigation

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The Office Macro automatically running the malicious file.

Mitigation
• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Contact the Security Product Vendor in-order to solve the security flaw.
• Configure Group Policy to block Office Macros from running.

UAC Nagger Trojan: Medium

Description
malware attacking the user interface and forcing him to click Yes when UAC Prompts for authentication. When the user clicks Yes, he's elevated permissions token is stolen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.
The Office Macro automatically running the malicious file.

Mitigation
• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Contact the Security Product Vendor in-order to solve the security flaw.
• Configure Group Policy to block Office Macros from running.

Standard Payload: Medium

Description
Payload is a malicious file retrieving computer Usernames, Emails and takes a Printscreen. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer.
The Office Macro automatically running the malicious file.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.
• Configure Group Policy to block Office Macros from running.

Ransomware: Medium

Description

ransomware encrypts all files in the user Documents folder. New malicious files or files that were Packed by Packers, Crypters or Protectors are able to run on this computer. The Office Macro automatically running the malicious file.

Mitigation

• Configure a Mail-Relay rule to block the penetration vector exterior file type.
• Configure the sandbox to run and test the penetration vector file types and block by detecting malicious behavior of files hidden inside files as presented in the penetration vector.
• Applying File Content disarm and reconstruction to remove the Code Execution file hidden inside the penetration vector file types.
• Contact the Security Product Vendor in-order to solve the security flaw.
• Configure Group Policy to block Office Macros from running.
• Block .vcs with file size that is larger than 10k.

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