

RELATÓRIO SEGUNDA SEMANA

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Introdução

Nesta semana será mostrado um escaneamento de vulnerabilidades na infraestrutura e nos recursos web de um servidor criado pelo metasploitable 2. Esses testes foram feitos no SO (sistema operacional) Kali Linux.

Para visualizar melhor os resultados obtidos, recomendo que utilize, no mínimo, zoom de 300% do próprio PDF nas imagens.

Termos Importantes

VirtualBox: software que permite a instalação e utilização de um sistema operacional dentro do outro, assim como seus respectivos softwares, como dois ou mais computadores independentes, mas compartilhando o mesmo hardware. (fonte wikipedia)

Aplicações web: Os apps web são sistemas que rodam na internet. São como sistemas tradicionais que recebem uma entrada, processam informação e emitem uma saída. Contudo, eles são rodados e interpretados por um navegador. (fonte tegracom)

Proxy: é um servidor que age como um intermediário para requisições de clientes solicitando recursos de outros servidores. Um cliente conecta-se ao servidor *proxy*, solicitando algum serviço, como um arquivo, conexão, página web ou outros recursos disponíveis de um servidor diferente, e o *proxy* avalia a solicitação como um meio de simplificar e controlar sua complexidade. (fonte wikipedia)

URL: O termo URL é a abreviação de Uniform Resource Locator, ou Localizador Uniforme de Recursos. Sendo direto, URL é a mesma coisa de endereço web, o texto que você digita na barra de endereços de seu navegador para acessar uma determinada página ou serviço. (fonte tecnoblog.net)

Spider: ferramenta usada para descobrir URLs em um site particular. Começa com uma lista de URLs para visitar, chamadas de “sementes”. O Spider visita essas URLs e identifica todos os hyperlinks na página e os adiciona às URLs visitadas. Esse processo continua recursivamente enquanto forem achados URLs.

Man-in-the-middle: é uma forma de ataque em que os dados trocados entre duas partes (por exemplo, você e o seu banco), são de alguma forma interceptados, registrados e possivelmente alterados pelo atacante sem que as vítimas percebam. (fonte wikipedia)

owasp zap: software capaz de encontrar vulnerabilidades em aplicações web. Owasp zap funciona como um man-in-the-middle proxy, o qual faz um spider e depois utiliza um escaneamento ativo, o qual procura potenciais vulnerabilidades usando ataques conhecidos contra o alvo selecionado.

Execução

Primeiramente foi executado, usando o **VirtualBox**, um servidor fictício, **metasploitable 2** (os detalhes de como foi feito serão omitidos porque nosso objetivo é focar na busca e resultado das vulnerabilidades). Depois de aberto, utilizei o endereço de **ip do servidor (192.168.0.103)** para realizar o **scan web** com a ferramenta **owasp zap**, rodando o scan no modo automático e, assim encontrando os resultados.

Depois disso foi executado o **OpenVAS**, utilizando o mesmo endereço ip anterior, o qual apresenta uma abordagem maior em termos de infraestrutura (pode nos dizer o sistema operacional usado e outras informações a mais). Os resultados classificados com severity low não foram registrados neste relatório.

Resultados owasp zap:

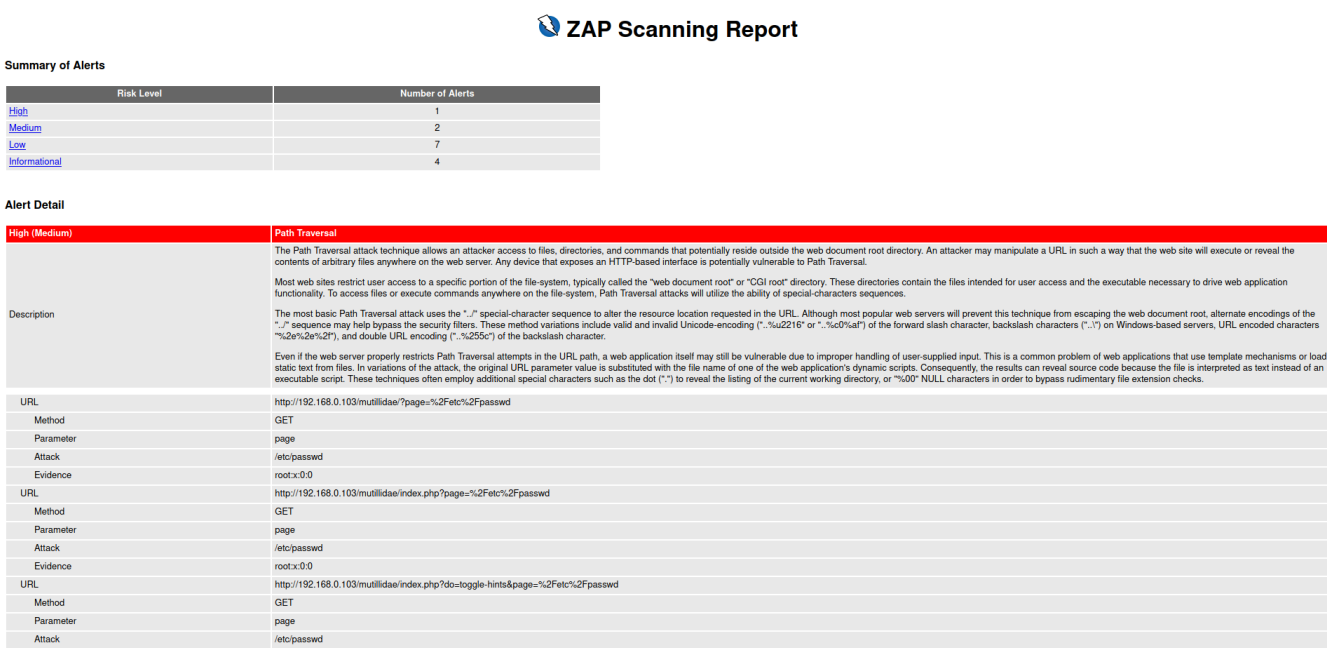


Figure 1: 1zap

| | |
|-----------|---|
| Parameter | page |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| URL | http://192.168.0.103/multilidae/index.php?page=text-file-viewer.php |
| Method | POST |
| Parameter | textfile |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| URL | http://192.168.0.103/multilidae/index.php?choice=nmap&initials=ZAP&page=%2Fetc%2Fpasswd&user-poll-php-submit-button=Submit+Vote |
| Method | GET |
| Parameter | page |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| URL | http://192.168.0.103/multilidae/index.php?page=%2Fetc%2Fpasswd |
| Method | POST |
| Parameter | page |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| URL | http://192.168.0.103/multilidae/index.php?page=source-viewer.php |
| Method | POST |
| Parameter | phpfile |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| URL | http://192.168.0.103/multilidae/index.php?page=%2Fetc%2Fpasswd&password=ZAP&user-info-php-submit-button=View+Account+Details&username=ZAP |
| Method | GET |
| Parameter | page |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| URL | http://192.168.0.103/multilidae/index.php?page=%2Fetc%2Fpasswd&username=anonymous |
| Method | GET |
| Parameter | page |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| URL | http://192.168.0.103/multilidae/index.php?page=source-viewer.php |
| Method | POST |

Figure 2: 2zap

| | |
|-----------|---|
| URL | http://192.168.0.103/multilidae/index.php?page=source-viewer.php |
| Method | POST |
| Parameter | page |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| URL | http://192.168.0.103/multilidae/index.php?forwardurl=http%3A%2F%2Fwww.php.net%2F&page=%2Fetc%2Fpasswd |
| Method | GET |
| Parameter | page |
| Attack | /etc/passwd |
| Evidence | root:x:0:0 |
| Instances | 11 |
| Solution | <p>Assume all input is malicious. Use an "accept known good" input validation strategy, i.e., use a whitelist of acceptable inputs that strictly conform to specifications. Reject any input that does not strictly conform to specifications, or transform it into something that does. Do not rely exclusively on looking for malicious or malformed inputs (i.e., do not rely on a blacklist). However, blacklists can be useful for detecting potential attacks or determining which inputs are so malformed that they should be rejected outright.</p> <p>When performing input validation, consider all potentially relevant properties, including length, type of input, the full range of acceptable values, missing or extra inputs, syntax, consistency across related fields, and conformance to business rules. As an example of business rule logic, "boat" may be syntactically valid because it only contains alphanumeric characters, but it is not valid if you are expecting colors such as "red" or "blue."</p> <p>For filenames, use stringent whitelists that limit the character set to be used. If feasible, only allow a single "." character in the filename to avoid weaknesses, and exclude directory separators such as "/". Use a whitelist of allowable file extensions.</p> <p>Warning: if you attempt to cleanse your data, then do so that the end result is not in the form that can be dangerous. A sanitizing mechanism can remove characters such as ";" and ":" which may be required for some exploits. An attacker can try to fool the sanitizing mechanism into "cleaning" data into a dangerous form. Suppose the attacker injects a ";" inside a filename (e.g. "sensi.liveFile") and the sanitizing mechanism removes the character resulting in the valid filename, "sensitiveFile". If the input data are now assumed to be safe, then the file may be compromised.</p> <p>Inputs should be decoded and canonicalized to the application's current internal representation before being validated. Make sure that your application does not decode the same input twice. Such errors could be used to bypass whitelist schemes by introducing dangerous inputs after they have been checked.</p> <p>Use a built-in path canonicalization function (such as realpath() in C) that produces the canonical version of the pathname, which effectively removes ".." sequences and symbolic links.</p> <p>Run your code using the lowest privileges that are required to accomplish the necessary tasks. If possible, create isolated accounts with limited privileges that are only used for a single task. That way, a successful attack will not immediately give the attacker access to the rest of the software or its environment. For example, database applications rarely need to run as the database administrator, especially in day-to-day operations.</p> <p>When the set of acceptable objects, such as filenames or URLs, is limited or known, create a mapping from a set of fixed input values (such as numeric IDs) to the actual filenames or URLs, and reject all other inputs.</p> <p>Run your code in a "jail" or similar sandbox environment that enforces strict boundaries between the process and the operating system. This may effectively restrict which files can be accessed in a particular directory or which commands can be executed by your software.</p> <p>OS-level examples include the Unix chroot jail, AppArmor, and SELinux. In general, managed code may provide some protection. For example, java.io.FilePermission in the Java SecurityManager allows you to specify restrictions on file operations.</p> <p>This may not be a feasible solution, and it only limits the impact to the operating system; the rest of your application may still be subject to compromise.</p> |
| Reference | http://projects.webappsec.org/Path-Traversal |
| CWE Id | 22 |
| WASC Id | 33 |
| Source ID | 1 |

Figure 3: 3zap

| Medium (Medium) | X-Frame-Options Header Not Set |
|-----------------|--|
| Description | X-Frame-Options header is not included in the HTTP response to protect against "ClickJacking" attacks. |
| URL | http://192.168.0.103/wiki/bin/view/TWiki/TWikiFuncModule?rev=1.2 |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/iddiff/KnowWinDoze95Crash |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/edit/TWiki/TWikiCodevTWikiDocumentation?topicparent=TWiki.TWikiHistory |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/search/Main/SearchResult?regex=on&scope=txt&search=Web%20"Search%5B%5EA-Za-z%5D&web=all; |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/view/TWiki/TWikiFuncModule?rev=1.1 |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/iddiff/TWiki/TWikiRegistration?rev1=1.8&rev2=1.7 |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/oops/Main/WebNotify?param1=1.7¶m2=1.7&template=oopsmore |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/TWikiDocGraphics?filename=attachfile.gif&revInfo=1 |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/multilide/index.php?page=dns-lookup.php |
| Method | POST |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/preview/TWiki/TWikiRegistration |
| Method | POST |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/view/Main/OfficeLocations?raw=on&rev=1.4 |
| Method | GET |
| Parameter | X-Frame-Options |

Figure 4: 4zap

| | |
|-----------|---|
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/iddiff/TWiki/TWikiFormTemplate?rev1=1.16&rev2=1.15 |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/view/TWiki/GrantBow?skin=print |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/search/Know/SearchResult?regex=on&scope=txt&search=Web%20"Ras%5B%5EA-Za-z%5D |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/edit/Main/TWiki/Preferences?topicparent=Main.TWikiGuest |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/search/Know/SearchResult?regex=on&scope=txt&search=Os%20"Win%5B%5EA-Za-z%5D |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/view/TWiki/ManpreetSingh?rev=1.1 |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/iddiff/TWiki/KlausWiessnegger |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/iddiff/TWiki/TextFormattingFAQ?rev1=1.14&rev2=1.13 |
| Method | GET |
| Parameter | X-Frame-Options |
| URL | http://192.168.0.103/wiki/bin/oops/Know/WebPreferences?param1=1.11¶m2=1.10&template=oopsmore |
| Method | GET |
| Parameter | X-Frame-Options |
| Instances | 4663 |
| Solution | Most modern Web browsers support the X-Frame-Options HTTP header. Ensure it's set on all web pages returned by your site (if you expect the page to be framed only by pages on your server (e.g. it's part of a FRAMESET) then you'll want to use SAMEORIGIN, otherwise if you never expect the page to be framed, you should use DENY. ALLOW-FROM allows specific websites to frame the web page in supported web browsers). |
| Reference | https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options |
| CWE Id | 16 |
| WASC Id | 15 |

Figure 5: 5zap

| Medium (Medium) | Application Error Disclosure |
|-----------------|---|
| Description | This page contains an error/warning message that may disclose sensitive information like the location of the file that produced the unhandled exception. This information can be used to launch further attacks against the web application. The alert could be a false positive if the error message is found inside a documentation page. |
| URL | http://192.168.0.103/wiki/bin/attach/Main/GrantBow |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/TWikiAccessControl |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/WikiSyntax |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/WebNotify |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/TWikiFuncModule |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/WikiName |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/Main/TWikiGuest |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/DocGraphics?filename=searchtopic.gif&revInfo=1 |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/TWikiRegistration |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/ManagingTopics |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/multilidae/index.php?page=view-someones-blog.php |

Figure 6: 6zap

| | |
|-----------|---|
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/multilidae/index.php?page=view-someones-blog.php |
| Method | GET |
| Evidence | Table 'metasploit.accounts' doesn't exist |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/TWikiUsernameVsLoginUsername |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/WebIndex |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/WebSearch |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/FileAttachment?filename=Smile.gif&revInfo=1 |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/ChangePassword |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/TWikiDocumentation |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/JohnAltstadt |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/PeterFokkinga |
| Method | GET |
| Evidence | Internal Server Error |
| URL | http://192.168.0.103/wiki/bin/attach/TWiki/WebHome |
| Method | GET |
| Evidence | Internal Server Error |
| Instances | 238 |
| Solution | Review the source code of this page. Implement custom error pages. Consider implementing a mechanism to provide a unique error reference/identifier to the client (browser) while logging the details on the server side and not exposing them to the user. |
| Reference | |
| CWE Id | 200 |
| WASC Id | 13 |

Figure 7: 7zap

Resultados OpenVAS:



Figure 8: 1OpenVAS

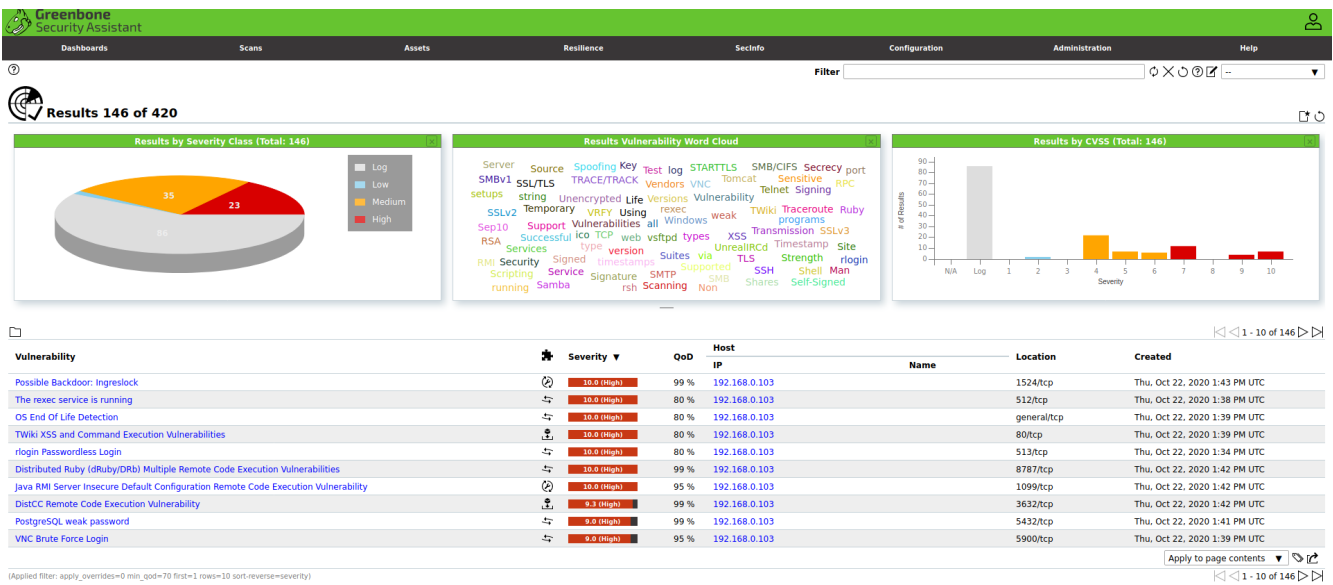


Figure 9: 2OpenVAS

| Vulnerability | Severity ▼ | QoD | Host IP | Name | Location | Created |
|---|------------|------|---------------|------|----------|-------------------------------|
| PostgreSQL weak password | 5.0 (High) | 99 % | 192.168.0.103 | | 5432/tcp | Thu, Oct 22, 2020 1:41 PM UTC |
| FTP Brute Force Logins Reporting | 7.5 (High) | 95 % | 192.168.0.103 | | 2121/tcp | Thu, Oct 22, 2020 1:48 PM UTC |
| Apache Tomcat AJP RCE Vulnerability (Ghostcat) | 7.5 (High) | 99 % | 192.168.0.103 | | 8009/tcp | Thu, Oct 22, 2020 1:43 PM UTC |
| Check for Backdoor in UnrealIRCd | 7.5 (High) | 70 % | 192.168.0.103 | | 6667/tcp | Thu, Oct 22, 2020 1:42 PM UTC |
| PHP-CGI-based setups vulnerability when parsing query string parameters from php files. | 7.5 (High) | 95 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:44 PM UTC |
| FTP Brute Force Logins Reporting | 7.5 (High) | 95 % | 192.168.0.103 | | 21/tcp | Thu, Oct 22, 2020 1:48 PM UTC |
| vstpd Compromised Source Packages Backdoor Vulnerability | 7.5 (High) | 99 % | 192.168.0.103 | | 21/tcp | Thu, Oct 22, 2020 1:48 PM UTC |
| rsh Unencrypted Cleartext Login | 7.5 (High) | 80 % | 192.168.0.103 | | 514/tcp | Thu, Oct 22, 2020 1:38 PM UTC |
| Test HTTP dangerous methods | 7.5 (High) | 99 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:42 PM UTC |
| vstpd Compromised Source Packages Backdoor Vulnerability | 7.5 (High) | 99 % | 192.168.0.103 | | 6200/tcp | Thu, Oct 22, 2020 1:42 PM UTC |

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Figure 10: 3OpenVAS

| Vulnerability | Severity ▼ | QoD | Host IP | Name | Location | Created |
|--|--------------|------|---------------|------|----------|-------------------------------|
| FTP Brute Force Logins Reporting | 7.5 (High) | 95 % | 192.168.0.103 | | 2121/tcp | Thu, Oct 22, 2020 1:48 PM UTC |
| SSH Brute Force Logins With Default Credentials Reporting | 7.5 (High) | 95 % | 192.168.0.103 | | 22/tcp | Thu, Oct 22, 2020 1:48 PM UTC |
| Test HTTP dangerous methods | 7.5 (High) | 99 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:42 PM UTC |
| Multiple Vendors STARTTLS Implementation Plaintext Arbitrary Command Injection Vulnerability | 6.8 (Medium) | 99 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:43 PM UTC |
| UnrealIRCd Authentication Spoofing Vulnerability | 6.8 (Medium) | 80 % | 192.168.0.103 | | 6667/tcp | Thu, Oct 22, 2020 1:35 PM UTC |
| Twiki Cross-Site Request Forgery Vulnerability - Sep10 | 6.8 (Medium) | 80 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:39 PM UTC |
| Anonymous FTP Login Reporting | 6.8 (Medium) | 80 % | 192.168.0.103 | | 21/tcp | Thu, Oct 22, 2020 1:39 PM UTC |
| Twiki Cross-Site Request Forgery Vulnerability | 6.8 (Medium) | 80 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:39 PM UTC |
| Samba MS-RPC Remote Shell Command Execution Vulnerability (Active Check) | 6.8 (Medium) | 99 % | 192.168.0.103 | | 445/tcp | Thu, Oct 22, 2020 1:42 PM UTC |
| SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability | 5.8 (Medium) | 70 % | 192.168.0.103 | | 5432/tcp | Thu, Oct 22, 2020 1:43 PM UTC |

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Figure 11: 4OpenVAS

| Vulnerability | Severity ▼ | QoD | Host IP | Name | Location | Created |
|--|--------------|------|---------------|------|----------|-------------------------------|
| SSL/TLS: OpenSSL CCS Man in the Middle Security Bypass Vulnerability | 5.8 (Medium) | 70 % | 192.168.0.103 | | 5432/tcp | Thu, Oct 22, 2020 1:43 PM UTC |
| awiki Multiple Local File Include Vulnerabilities | 5.8 (Medium) | 99 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:43 PM UTC |
| SSL/TLS: Certificate Expired | 5.8 (Medium) | 99 % | 192.168.0.103 | | 5432/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| /doc directory browsable | 5.8 (Medium) | 80 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:38 PM UTC |
| SSL/TLS: Certificate Expired | 5.8 (Medium) | 99 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| Check if Mailserver answer to VRFY and EXPN requests | 5.8 (Medium) | 99 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:38 PM UTC |
| Cleartext Transmission of Sensitive Information via HTTP | 4.8 (Medium) | 80 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:39 PM UTC |
| FTP Unencrypted Cleartext Login | 4.8 (Medium) | 70 % | 192.168.0.103 | | 21/tcp | Thu, Oct 22, 2020 1:34 PM UTC |
| VNC Server Unencrypted Data Transmission | 4.8 (Medium) | 70 % | 192.168.0.103 | | 5900/tcp | Thu, Oct 22, 2020 1:35 PM UTC |
| FTP Unencrypted Cleartext Login | 4.8 (Medium) | 70 % | 192.168.0.103 | | 2121/tcp | Thu, Oct 22, 2020 1:34 PM UTC |

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Figure 12: 5OpenVAS

| Vulnerability | Severity ▼ | QoD | Host IP | Name | Location | Created |
|---|--------------|------|---------------|------|----------|-------------------------------|
| Cleartext Transmission of Sensitive Information via HTTP | 4.8 (Medium) | 80 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:39 PM UTC |
| SSL/TLS: RSA Temporary Key Handling 'RSA_EXPORT' Downgrade Issue (FREAK) | 4.8 (Medium) | 80 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| jQuery < 1.6.3 XSS Vulnerability | 4.8 (Medium) | 80 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:39 PM UTC |
| SSL/TLS: Report Weak Cipher Suites | 4.8 (Medium) | 98 % | 192.168.0.103 | | 5432/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: 'DHE_EXPORT' Man in the Middle Security Bypass Vulnerability (Logjam) | 4.8 (Medium) | 80 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: Deprecated SSLv2 and SSLv3 Protocol Detection | 4.8 (Medium) | 98 % | 192.168.0.103 | | 5432/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: Deprecated SSLv2 and SSLv3 Protocol Detection | 4.8 (Medium) | 99 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| Apache HTTP Server 'httpOnly' Cookie Information Disclosure Vulnerability | 4.8 (Medium) | 99 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:45 PM UTC |
| SSL/TLS: SSLv3 Protocol CBC Cipher Suites Information Disclosure Vulnerability (POODLE) | 4.8 (Medium) | 80 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| jQuery < 1.9.0 XSS Vulnerability | 4.8 (Medium) | 80 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:39 PM UTC |

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Figure 13: 6OpenVAS

| Vulnerability | Severity ▼ | QoD | Host IP | Name | Location | Created |
|---|--------------|------|---------------|------|-------------|-------------------------------|
| phpMyAdmin 'error.php' Cross Site Scripting Vulnerability | 4.3 (Medium) | 99 % | 192.168.0.103 | | 80/tcp | Thu, Oct 22, 2020 1:44 PM UTC |
| SSL/TLS: Deprecated SSLv2 and SSLv3 Protocol Detection | 4.3 (Medium) | 98 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: 'DHE_EXPORT' Man in the Middle Security Bypass Vulnerability (Logjam) | 4.3 (Medium) | 80 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: RSA 'Temporary Key Handling' 'RSA_EXPORT' Downgrade Issue (FREAK) | 4.3 (Medium) | 80 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: Diffie-Hellman Key Exchange Insufficient DH Group Strength Vulnerability | 4.0 (Medium) | 80 % | 192.168.0.103 | | 5432/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: Diffie-Hellman Key Exchange Insufficient DH Group Strength Vulnerability | 4.0 (Medium) | 80 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: Certificate Signed Using A Weak Signature Algorithm | 4.0 (Medium) | 80 % | 192.168.0.103 | | 5432/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSL/TLS: Certificate Signed Using A Weak Signature Algorithm | 4.0 (Medium) | 80 % | 192.168.0.103 | | 25/tcp | Thu, Oct 22, 2020 1:37 PM UTC |
| SSH Weak MAC Algorithms Supported | 2.6 (Low) | 95 % | 192.168.0.103 | | 22/tcp | Thu, Oct 22, 2020 1:35 PM UTC |
| TCP Timestamps | 2.6 (Low) | 80 % | 192.168.0.103 | | general/tcp | Thu, Oct 22, 2020 1:26 PM UTC |

(Applied filter: apply_overrides=0 min_qod=70 rows=10 first=51 sort=reverse=severity)

51 - 60 of 146

Figure 14: 7OpenVAS

| Greenbone Security Assistant | | | | | | | | | | |
|--|----------------------|----------------|------------------|-------------------------|------------------------------------|-----------------|----------------------|---------------------------|-------------------------|---------------|
| Dashboards | Scans | Assets | Resilience | Secinfo | Configuration | Administration | Help | | | |
| Filter | | | | | | | | | | |
| Report: Thu, Oct 22, 2020 1:23 PM UTC | | | | | | | | | | |
| ID: 711789e7-6586-4b74-92bc-58e4d0041b61 Created: Thu, Oct 22, 2020 1:24 PM UTC Modified: Thu, Oct 22, 2020 1:50 PM UTC Owner: admin | | | | | | | | | | |
| Information | Results (146 of 420) | Hosts (1 of 1) | Ports (24 of 24) | Applications (15 of 15) | Operating Systems (1 of 1) | CVEs (26 of 26) | Closed CVEs (0 of 0) | TLS Certificates (2 of 2) | Error Messages (0 of 0) | User Tags (0) |
| Operating System | | | | | CPE | Hosts | | Severity ▼ | | |
| Ubuntu 8.04 | | | | | cpe:/o:canonical:ubuntu_linux:8.04 | 1 | | 10.0 (High) | | |

(Applied filter: apply_overrides=0 min_qod=70 sort=reverse=severity rows=10 first=41)

1 - 1 of 1

Figure 15: 8OpenVAS

| Greenbone Security Assistant | | | | | | | | | | |
|--|----------------------|----------------|------------------|-------------------------|----------------------------|-----------------|----------------------|---------------------------|-------------------------|---------------|
| Dashboards | Scans | Assets | Resilience | Secinfo | Configuration | Administration | Help | | | |
| Filter | | | | | | | | | | |
| Report: Thu, Oct 22, 2020 1:23 PM UTC | | | | | | | | | | |
| ID: 711789e7-6586-4b74-92bc-58e4d0041b61 Created: Thu, Oct 22, 2020 1:24 PM UTC Modified: Thu, Oct 22, 2020 1:50 PM UTC Owner: admin | | | | | | | | | | |
| Information | Results (146 of 420) | Hosts (1 of 1) | Ports (24 of 24) | Applications (15 of 15) | Operating Systems (1 of 1) | CVEs (26 of 26) | Closed CVEs (0 of 0) | TLS Certificates (2 of 2) | Error Messages (0 of 0) | User Tags (0) |
| Application CPE | | | | | Hosts | Occurrences | | Severity ▼ | | |
| cpe:/a:twiki:twiki:01.Feb.2003 | | | | | 1 | 1 | | 10.0 (High) | | |
| cpe:/a:postgresql:postgresql:8.3.1 | | | | | 1 | 1 | | 9.0 (High) | | |
| cpe:/a:mysql:mysql:5.0.51a | | | | | 1 | 1 | | 9.0 (High) | | |
| cpe:/a:unrealircd:unrealircd:3.2.8.1 | | | | | 1 | 1 | | 6.8 (Medium) | | |
| cpe:/a:samba:samba:3.0.20 | | | | | 1 | 1 | | 5.9 (Medium) | | |
| cpe:/a:jquery:jquery:1.3.2 | | | | | 1 | 1 | | 4.3 (Medium) | | |
| cpe:/a:phpmyadmin:phpmyadmin:3.1.1 | | | | | 1 | 1 | | 4.3 (Medium) | | |
| cpe:/a:apache:http_server:2.2.8 | | | | | 1 | 1 | | N/A | | |
| cpe:/a:isc:bind:9.4.2 | | | | | 1 | 1 | | N/A | | |
| cpe:/a:postfix:postfix | | | | | 1 | 1 | | N/A | | |

(Applied filter: apply_overrides=0 min_qod=70 sort=reverse=severity rows=10 first=41)

1 - 10 of 15

Figure 16: 9OpenVAS

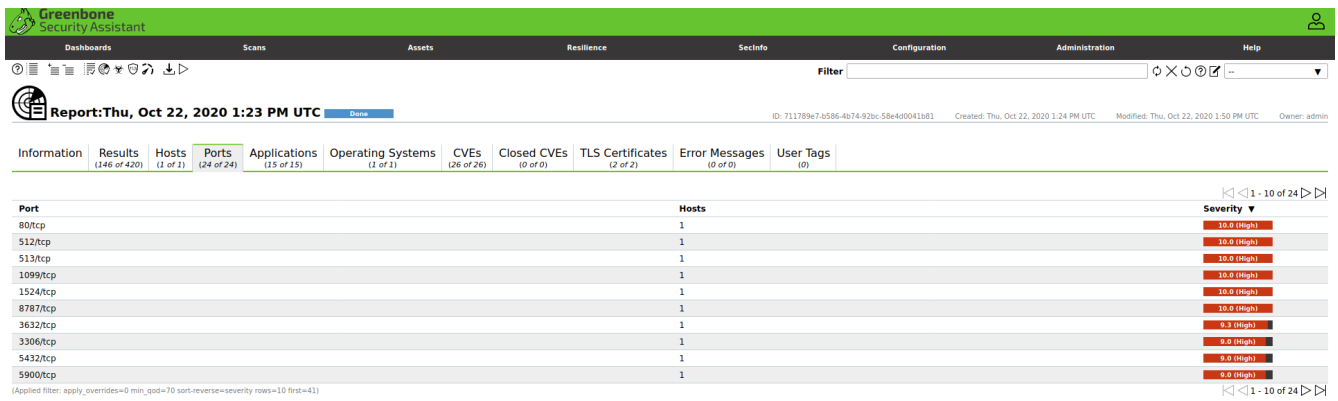


Figure 17: 10OpenVAS

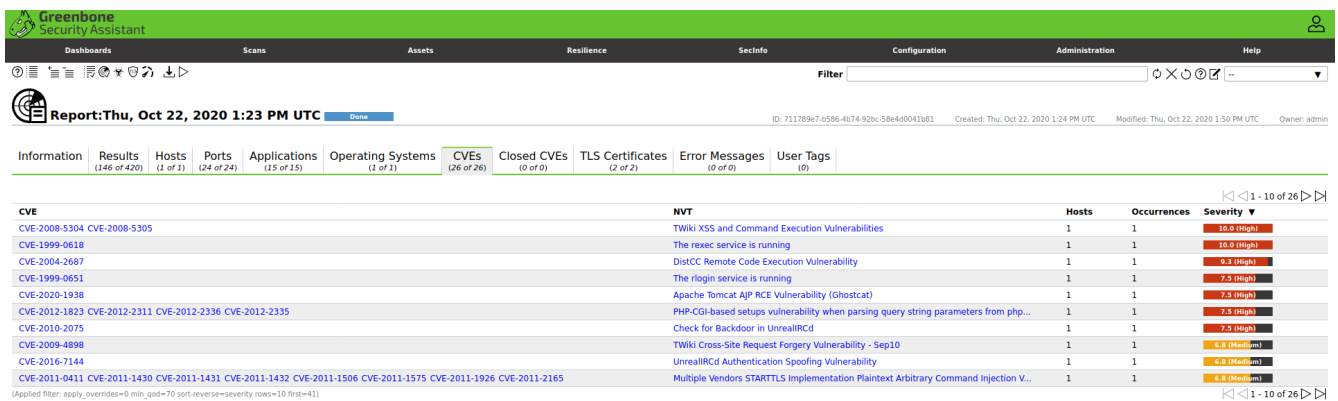


Figure 18: 11OpenVAS