

Broken Authentication

Domin: <https://www.mercadopago.com.pe/>

Description:

The vulnerability scanner detected that authentication was not required for accessing the /jmx-console/ endpoint. This security concern, known as CVE-2010-0738, could allow unauthorized users to access sensitive management interfaces and potentially exploit the system.

Affected Components:

The /jmx-console/ endpoint within the application.

Proof of Concept:

```
|
|         <label class="promptErrorLabel colorRed"></label>\x0D
|         </div>\x0D
|         </div>\x0D
|         </div>\x0D
|         <div class='buttons'>\x0D
|         <input type="button" class="btn btn-default simplemodal-close" id='okbtn' data-trans='ok' />\x0D
|         <input type="button" class="btn btn-default " id='yesbtn' data-trans='yes' />\x0D
|         <input type="button" class="btn btn-default simplemodal-close" id='nobtn' data-trans='no' />\x0D
|         </div>\x0D
|         </div>\x0D
|         <div id='popupSettingWindow'>\x0D
|         <div class='header'>\x0D
|         <p class="tag-popup-close"><a href="javascript:hidePopupSettingWindow();"></a></p>\x0D
|         </div>\x0D
|         <div id="htmlContainer" class="modal-body"></div>\x0D
|         </div>\x0D
|         <div id="button-bubble">\x0D
|         </div>\x0D
|         <script type="text/x-jquery-tmpl" id="newMessagePopTpl">\x0D
|         <div class="bubbleItem" id="{report}" id="{mark}">\x0D
|         <h3>\x0D
|         <span data-trans="{titletrans}">${title}</span> ${name} <a href="javascript:void(0);" data-
|         targetid="{mark}" class="bubbleCloseBtn"></a>\x0D
|         </h3>\x0D
|         <div class="bubbleContainer">\x0D
|         <div class="bubbleContent">${content}</div>\x0D
|         <div class="bubbleDatetime">${datetime}</div>\x0D
|         </div>\x0D
|         </div>\x0D
|         </script>\x0D
|         <script type="text/javascript" data-main="js/main" src="js/lib/require/require-jquery.js"></script>\x0D
|         </body>\x0D
|         </html>
|_ http-csrf: Couldn't find any CSRF vulnerabilities.
|_ http-vuln-cve2010-0738:
|_   /jmx-console/: Authentication was not required
|_ http-dombased-xss: Couldn't find any DOM based XSS.
|_ http-stored-xss: Couldn't find any stored XSS vulnerabilities.
|_ http-vuln-cve2017-1001000: ERROR: Script execution failed (use -d to debug)
|_ http-majordomo2-dir-traversal: ERROR: Script execution failed (use -d to debug)
|_ http-enum:
|_   /cgi-bin/mj_wwwusr: Majordomo2 Mailing List
|_   /cgi-bin/vcs: Mitel Audio and Web Conferencing (AWC)
|_   /cgi-bin/ffileman.cgi?: Ffileman Web File Manager
|_   /cgi-bin/ck/mimencode: ContentKeeper Web Appliance
|_   /cgi-bin/masterCGI?: Alcatel-Lucent OmniPCX Enterprise
|_   /cgi-bin/awstats.pl: AWStats
|_   /cgi-bin/image/shikaku2.png: TeraStation PRO RAID 0/1/5 Network Attached Storage
|_   /cgi-bin/2/: Potentially interesting folder
|_   /cgi-bin/: Potentially interesting folder
5060/tcp open  sip
8888/tcp open  sun-answerbook
```

Accessing the /jmx-console/ endpoint without authentication grants unauthorized users access to sensitive management interfaces, potentially allowing them to execute arbitrary code or manipulate system configurations.

Proposed Solution:

Authentication Mechanisms: Implement strong authentication mechanisms, such as username/password authentication or multifactor authentication (MFA), to restrict access to the /jmx-console/ endpoint. Only authenticated users with appropriate privileges should be allowed to access management interfaces.

Access Control: Configure access control lists (ACLs) or role-based access control (RBAC) policies to limit access to the /jmx-console/ endpoint based on user roles or permissions. Deny access to unauthorized users or groups.

Network Segmentation: Consider isolating management interfaces, including the /jmx-console/ endpoint, from external networks using network segmentation techniques such as virtual LANs (VLANs) or firewalls. Restricting access to trusted networks can help mitigate the risk of unauthorized access.

Regular Auditing: Conduct regular audits and vulnerability assessments to identify and remediate security weaknesses, including misconfigurations or vulnerabilities related to access control. Monitor access logs and suspicious activities to detect and respond to potential threats promptly.

Impact:

Unauthorized Access: Attackers may gain unauthorized access to sensitive management interfaces, allowing them to manipulate system configurations, execute arbitrary code, or perform other malicious activities.

Data Exposure: Sensitive information stored or accessible through the /jmx-console/ endpoint could be exposed to unauthorized parties, leading to data breaches or privacy violations.

System Compromise: Exploitation of the vulnerability could result in system compromise, allowing attackers to gain full control over the affected system and potentially extend their access to other parts of the network.

Conclusion:

Addressing the unauthenticated access vulnerability to the /jmx-console/ endpoint (CVE-2010-0738) is essential for maintaining the security and integrity of the application and underlying system. By implementing robust authentication mechanisms, access controls, network segmentation, and regular auditing practices, organizations can reduce the risk of unauthorized access and protect sensitive information from exploitation by malicious actors.