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<> Code - Revisions 1 Prorks 1



info

pacs vuln report.md

- vendor page: https://pacsone.net/
- patched version: 7.1.1
- Credits: Xinjie Ma from Chaitin Research Lab

Timeline

- 2020.07.19 send report to a vendor's partner
- 2020.07.20 they inform the real vendor
- 2020.08.18 vendor design a fix plan
- 2020.11.10 vendor's partner inform me all vuln has been fixed and offer a bounty

Details

many Reflected XSS(Cross-site scripting)

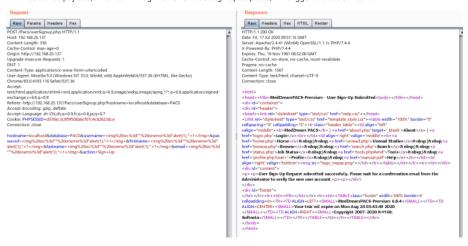
 $many \ user input \ concat \ or \ format \ to \ response \ html \ without \ any \ sanitization \ or \ check, \ some \ filter \ \ cscript \ tag, \ for \ example \ in \ decline{thm}$ login.php, but a payload like [http://192.168.25.137/Pacs/login.php?

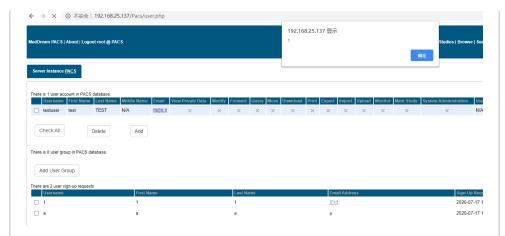
 $\verb|message=%3Cimg%20src=%22%22%20onerror=%22alert(1); %22\%3E1\%3C/img\%3E](\verb|http://192.168.25.137/Pacs/login.php?message=1) will will represent the properties of the propert$ bypass the check.



Stored XSS(Cross-site scripting)

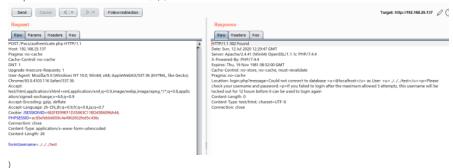
• Pacs/userSignup.php when a user sign up, administrator need to review the user. due to no proper sanitization, attacker can insert a xss payload, when admin login to review user sign up requests, will trigger this sotred xss vuln.





arbitrary file creation/override in authenticate.php

- Pacs/authenticate.php
- \$_POST['formUsername'] will flow into fopen(\$file, "w") as part of \$file, intended to create or append a file with username
 as filename in MDPACS/PACS/FailedLogin to count how many failed login tries
- this poc will create a file named test in c:\ , file content will be 1.



• this could be used to break the login mechanism by provide formUsername=../php/security.php to overwrite security.php, this will make other after-auth vuln more dangerous. or overwrite some important config file to cause a denial of service

arbitrary file read/SSRF in encapsulatedDoc.php and others

- MDPACS/PACS/php/encapsulatedDoc.php
- will not check wether path is legit, can read any file on the server.
- need login first, previously mentioned vulnerablity could bypass the login.



• there are similar behivor in nocache.php \ tempimage.php

Broken Authentication

- MDPACS/PACS/php/importWorklist.php / MDPACS/PACS/php/uploadImage.php and missing authentication in originalImage.php
- those page should only let authenicated user to upload file, but due to broken auth, anyone can upload file.



97:93] [1870] the back-end DBMS is MySQL 97:93] [UMBNING] it is very important to not stress the network connection during usage of time-based payloads to prevent potential d