New issue

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XEN Orchestra privilege escalation via websockets #5712

Open 73naissance opened this issue on Apr 5, 2021 · 2 comments

Assignees



r3naissance commented on Apr 5, 2021 • edited by julien-f ▼

Context

- XO origin: XO Appliance
- Versions:
 - o Node: 14.15.0
 - o xo-web: 5.76.0
 - o xo-server: 5.73.0

Validated still vulnerable on version:

- Versions:
 - o Node: 14.17.3
 - o xo-web: 5.80.0
 - o xo-server: 5.84.0

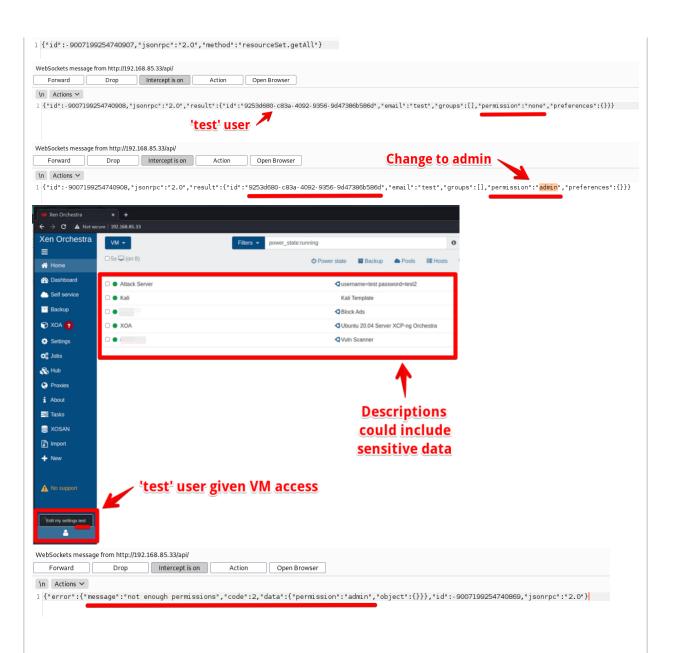
Expected behavior

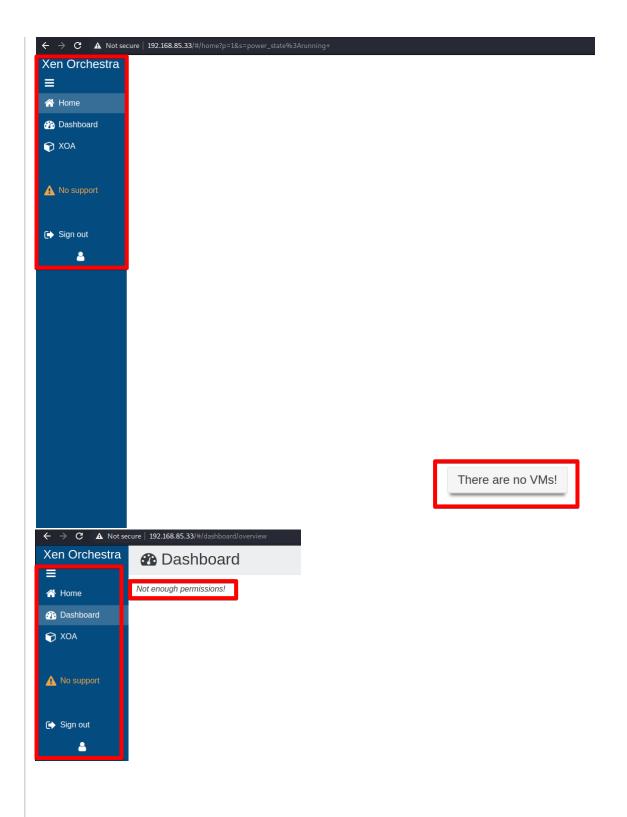
Permissions enforcement through websockets is not thoroughly checked and can lead to an unprivileged 'user' to obtain data only accessible by 'admin'. VMs, Backups, Audit, Users, Groups, etc.

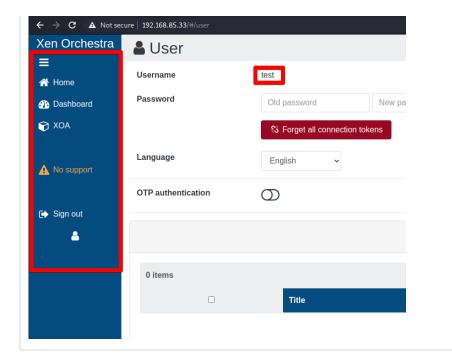
Current behavior

The websockets that control the application API are allowing access to certain elements based purely on the response (which can be manipulated). This would be similar to an ecommerce application taking the price of a shopping cart from the DOM (can be manipulated by the user) and starting the checkout process using this value).

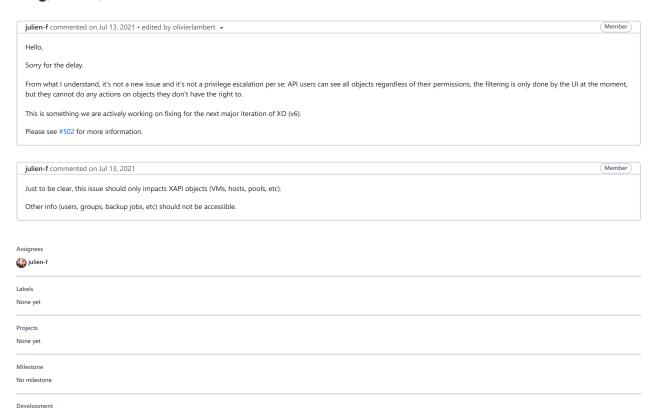
In this POC, the method 'resourceSet.getAll' [Figure 1] responds with "permission": "none" [Figure 2]. If an attacker changes the value of 'none' to 'admin' [Figure 3], the API opens up with further data and UI points [Figure 4]. This change in permission level persists through other API calls until the resourceSet.getAll method calls for permissions again (which should respond with "none") unless the attacker changes it back to admin. Interestingly, the API limits some methods, returning with 'not enough permissions' but shows the user has 'admin' permissions [Figure 5].







A **ijulien-f** self-assigned this on Apr 6, 2021



2 participants

No branches or pull requests

