

Re: Potential Web Application Vulnerability Detected

Lon Soh <lon.soh@lacity.org>

Thu, Jun 8, 2023 at 2:28 PM To: ITA Information Security Office <ita.security@lacity.org>, John Darragh <darragh@entrotech.net>, Alexander Wikstrom <alexander.wikstrom@lacity.org>

Looping in the TDM folks...

John, can you please investigate? Thanks.

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Los Angeles Department of Transportation 213.972-8454

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On Wed, Jun 7, 2023 at 12:11 PM ITA Information Security Office <ita.security@lacity.org> wrote: Hello DOT cybersecurity coordinators, Could we please get an update on this?

Information Security Office Information Technology Agency City of Los Angeles ita.security@lacity.org

On Fri, Jun 2, 2023 at 8:31 AM ITA Information Security Office <ita.security@lacity.org> wrote:

Hello DOT cybersecurity coordinators, we have recently identified a host, tdm.ladot.lacity.org, with a potential critical severity vulnerability. Based on a trusted third party vendor, this site may be vulnerable to Privilege Escalation attacks.

Please investigate and remediate as soon as possible. Recommendations and reference guides have been provided below.

Severity: Critical

Analysis:

Similar to a previously reported IDOR vulnerability on the same host, tdm.ladot.lacity.org was detected with a potential critical Privilege Escalation vulnerability. Privilege escalation attacks occur when a threat actor gains access to an employee's account, bypasses the proper authorization channel, and successfully grants themselves access to data they are not supposed to have.

A remote attacker can exploit this to elevate their own account permissions and execute arbitrary commands with the privileges of *administrator*. The impact of this could allow malicious actors to modify the permissions in order to delete or steal data, add or delete users, gain access to system files and cause disruption in the operations, or create backdoors for future attacks. Please investigate and remediate as soon as possible, recommendations have been provided below.

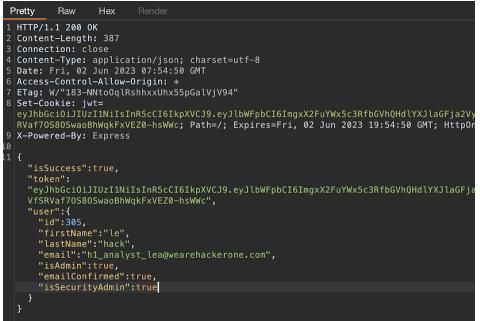
Steps to reproduce:

- 1. Navigate to https://tdm.ladot.lacity.org/login
- 2. Create a standard user account (if necessary)
- 3. Intercept the login request and modify the following fields

"isAdmin":true,

"emailConfirmed":true,

"isSecurityAdmin":true



4. Continue logging in and notice how the **Security** tab is now visible for the standard user login

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Recommendations:

- 1) Please validate and remediate this privilege escalation vulnerability as soon as possible.
 - Please review all administrator accounts and remove unrecognized/unauthorized accounts as necessary.
 - This site has been added to our weekly scan schedule, please let us know if we can run authenticated scans. If so, we would need access to a login account (username/password).
- 2) Ensure any end-of-life/end-of-support software is upgraded or removed.

3) Ensure that the host has the latest patches and updates installed for any other application including the operating system.

References:

https://www.beyondtrust.com/blog/entry/privilege-escalation-attack-defense-explained

Please disregard the following: #1994610

Thank you,

Information Security Office Information Technology Agency City of Los Angeles ita.security@lacity.org