

Novastar Novaicare : It is used to centrally monitor display status of LED screens affected by Privilege Escalation Bug

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on Aug 8, 2021 15

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README.md

Novastar-VNNOX-iCare(Novaicare) V7.16.0 [Multiple Privilege Escalation flaws]

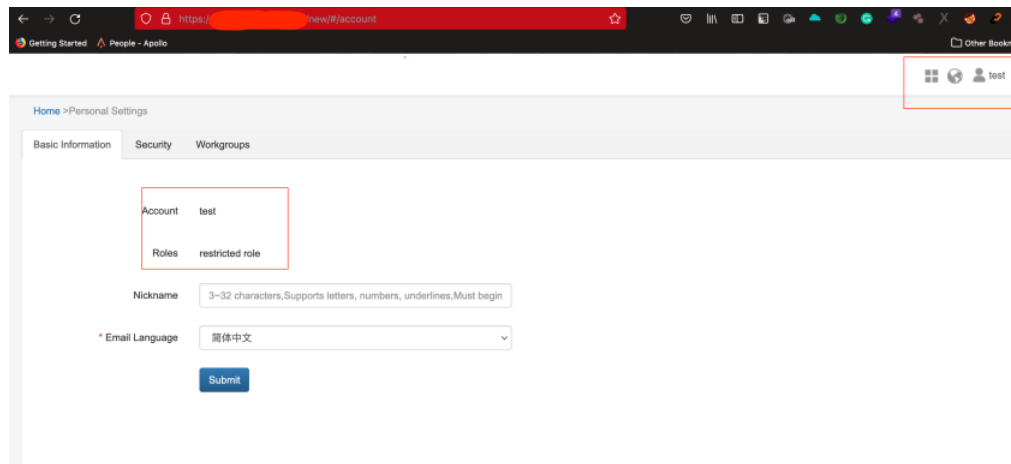
Vulnerability Description: The application iCare(Novaicare) developed by Xi'an NovaStar Tech Co.,Ltd on their VNNOX cloud platform v7.16.0 which is used to centrally monitor display status of LED screens suffers from multiple Privilege Escalation Bugs.The bug lies in the poor access control management for low privileged users on the platform.

Severity: HIGH

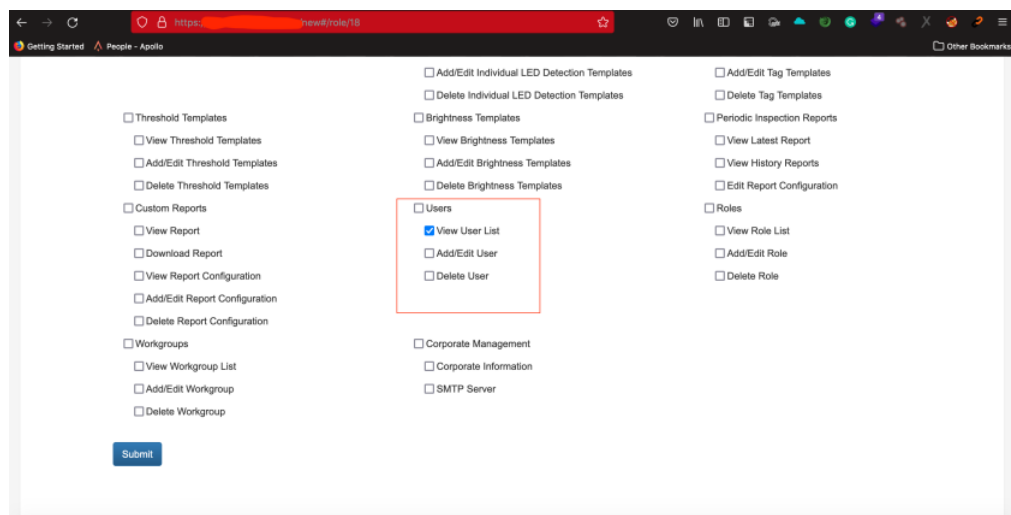
Observation: When a new user is created on the Novaicare platform and added to a restricted role(a role with only User view privileges) , that user can escalate the privileges and perform multiple privileged actions including : 1. View Corporate Information and SMTP Server Details 2. Ability to delete Users 3. Ability to view roles .

1. View Enterprise and SMTP Info

Below POC shows the User "Test" account created with restricted role:



Restricted Role Privileges have been shown below:



As User Test should not be allowed to view Corporate Information, SMTP Server Details and roles but below POC show that user Test was able to view these details by browsing to the specific endpoints thus resulting in privilege escalation:

Corporate Information:

Visit Endpoint given in POC with a restricted role (a role with only User view privileges) User account : (GET /new/backend/enterprise/getEnterpriseInfo?domain=xxx)

The screenshot shows a web browser interface with a 'Request' tab on the left and a 'Response' tab on the right. The 'Request' tab shows a GET request to the endpoint `/new/backend/enterprise/getEnterpriseInfo?domain=xxx`. The 'Response' tab shows a JSON response with a status of 200. The response body contains a 'data' object with the following fields: 'id' (1), 'companyName' (Burp Collaborator), 'companyAddress' (Mox11la/5.0), 'officialWebsite' (http://www.burpcolllaborator.net), 'phone' (76257652752), 'isCustom' (true), 'countryCode' (107), 'enable' (true), 'systemName' (LEDcare), 'domain' (http://www.burpcolllaborator.net), 'learnMoreUrl' (http://www.burpcolllaborator.net), 'iconLogo' (http://www.burpcolllaborator.net), 'loginLogo' (http://www.burpcolllaborator.net), 'systemLogo' (http://www.burpcolllaborator.net), 'emailLogo' (http://www.burpcolllaborator.net), 'reportLogo' (http://www.burpcolllaborator.net), 'domainType' (1), and 'copyright' (2019). The response also includes an 'errorCode' field with a value of 0.

SMTP Server Details:

Visit Endpoint given in POC with a restricted role (a role with only User view privileges) User account : (GET /new/backend/enterprise/getSMTPInfo)

The screenshot shows a web browser interface with a 'Request' tab on the left and a 'Response' tab on the right. The 'Request' tab shows a GET request to the endpoint `/new/backend/enterprise/getSMTPInfo`. The 'Response' tab shows a JSON response with a status of 200. The response body contains a 'data' object with the following fields: 'id' (1), 'host' (smtp.burpcolllaborator.net), 'port' (465), 'username' (root@burpcolllaborator.net), 'password' (root@burpcolllaborator.net), 'sender' (root@burpcolllaborator.net), and 'email' (root@burpcolllaborator.net). The response also includes an 'errorCode' field with a value of 0.

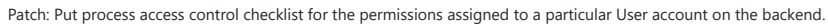
View Roles:

Visit Endpoint given in POC with a restricted role (a role with only User view privileges) User account : (GET /new/backend/role)

The screenshot shows a web browser interface with a 'Request' tab on the left and a 'Response' tab on the right. The 'Request' tab shows a GET request to the endpoint `/new/backend/role`. The 'Response' tab shows a JSON response with a status of 200. The response body contains a 'data' object with the following fields: 'id' (1), 'name' (restricted role), 'description' (restricted role), 'permissions' (restricted role), and 'index' (1). The response also includes an 'errorCode' field with a value of 0.

Apart from the Information disclosures discussed above the User account with restricted role had the ability to delete Users as well from the platform, see the below POC:

Visit Endpoint given in POC with a restricted role(a role with only User view privileges) User account : (POST /new/backend/subuser/delete)



Thanks

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Releases

No releases published

Packages

No packages published