

# ***eG Manager v7.1.2:Improper Access Control lead to Remote Code Execution (CVE-2020-8591)***

February 03, 2020

## **I** mproper Access Control to Remote Code Execution (CVE-2020-8591)

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I will show how I hacked a whole system by exploiting improper access control vulnerability in the popular java-based MaaS software "eG Manager" and how I can escalated it to execute code remotely.

### Impact

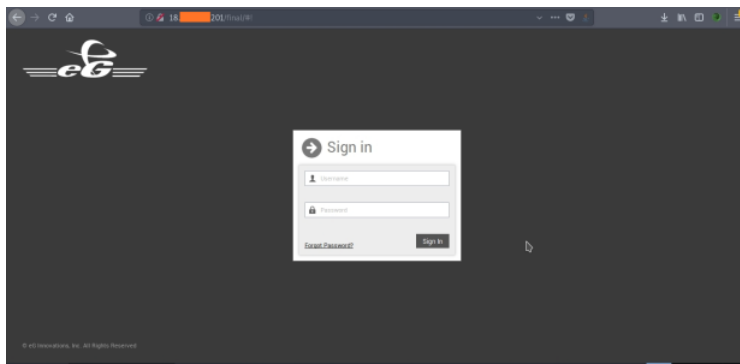
The Improper Access Control weakness describes a case where software fails to restrict access to an object properly. A malicious user can compromise security of the software and perform certain unauthorized actions by gaining elevated privileges, reading otherwise restricted information, executing commands, bypassing implemented security mechanisms, etc.

### Technical Analysis

"eG Manager" has direct admin panel access feature and then it was missing session management control, e.g. if users may not want to login via the login interface provided by eG Enterprise. For instance, they can use access key to directly connect to the eG management console from the portal. "eG Manager" used predefined access key for authentication. An attacker can exploit this feature by using single access key. Since, eG Manager is used for internal network monitoring process, I could accessed their internal network via remote code execution.

### Exploiting Improper access control to Remote Code Execution

While I pen-testing "eG Manager", I read their documentation and found some interesting. If a user is already logged into a web portal, he/she may not want to login again to gain access to the eG user interface; instead, they may want to directly connect to the eG management console. they can use access key.

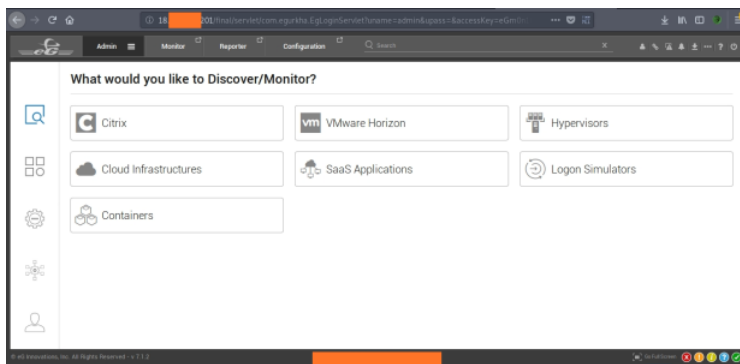


I thought, Can I access their admin panel without entering any password, even I have never logged before? We can be easily found access key in their documentation. So I tried to access admin panel by using the following URL:

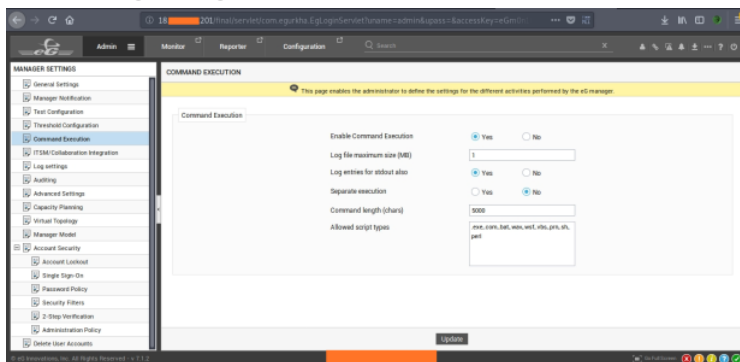
https://<eGmanagerIP>:

<eGmanagerport>/final/servlet/com.egurkha.EgLoginServlet?

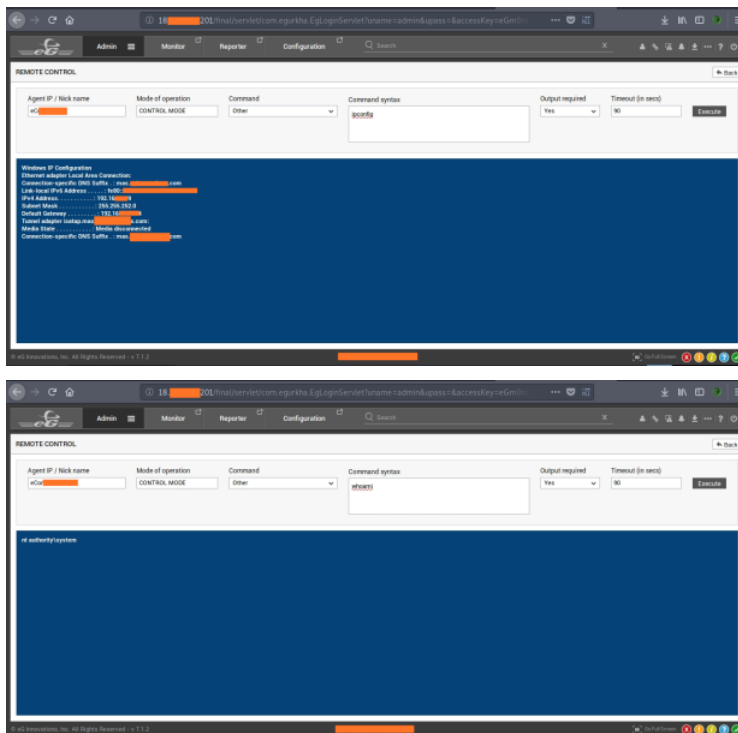
uname=admin&upass=&accessKey=eGm0n1t0r



Yeah!!! I have successfully logged into their admin panel because the eG Enterprise system will automatically pick the password that corresponds to the specified uname from the database. There was command execution function in Admin>Settings>Manager.



The option was enabled. Any commands can be executed in Admin> Agents> Agent Status> Remote Control.



That is means I can control any company internal network which are using eG Manager.

## Time Line

Date What

2020/01/30 Vulnerability reported to eG Innovations, Inc.

2020/01/30 Vendor addressed issue in < 7.1.2

2020/01/31 Vendor fixed and notify their customers.

## Summary

In this post I analyzed improper access control vulnerability in "eG Manager v7.1.2" which can be triggered through a single access key. I found that it is possible to leverage the issue into Remote Code Execution if the "eG Manager" instance relies on the command execution function. I would like to thank the "eG Innovations, Inc" security team for the professional communication and for the very fast resolution of the issue.

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## Comments



Rakesh · April 27, 2020 at 7:29 AM

Wow it is really wonderful and awesome thus it is very much useful for me to understand many concepts and helped me a lot. it is really explainable very well and i got more information from your blog

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Babit · September 14, 2020 at 9:54 PM

A is a very extensive and vast knowledgeable platform that has been given by this blog. Thanks for sharing this helpful blog.

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February 03, 2020

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### **Pyae Phyto Thu**

Pyae Phyto Thu is a Junior Cyber Security Specialist at RITZ Cyber Intelligence Services Co.,Ltd and is passionate about finding all types of security bugs, not only in web applications but also in Android apps and other systems. He has finished his graduation from th ...

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