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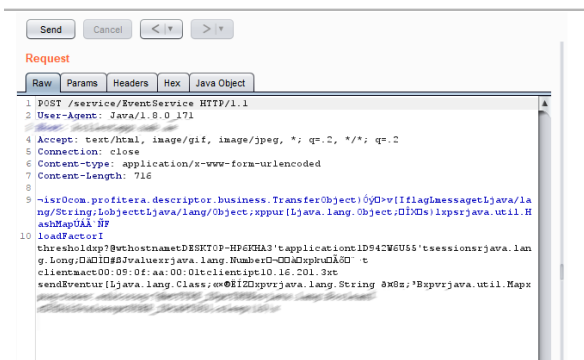
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KollectApps Insecure Java Deserialization (CVE-2021-27335)

🕒 February 15, 2021 👤 [hacked0x90 \(https://hacked0x90.net/index.php/author/hacked0x90/\)](https://hacked0x90.net/index.php/author/hacked0x90/) 💬 [Leave a comment \(https://hacked0x90.net/index.php/2021/02/15/kollectapp-insecure-java-deserialization/#respond\)](https://hacked0x90.net/index.php/2021/02/15/kollectapp-insecure-java-deserialization/#respond)

KollectApp is a desktop application which is used heavily in the banking sector, it's used to manage loans collection given to customers by the bank. While doing a penetration test on the application i discovered a critical insecure java deserialization that lead to remote code execution. During testing i noticed the presence of java serialized payload at one the requests sent by the application.



Since I decompiled the application jar files , I know that commons collection gadget exists, therefore I generated ysoserial payload to make the application sleep, and copied the payload to the body request, unfortunately it didn't work.

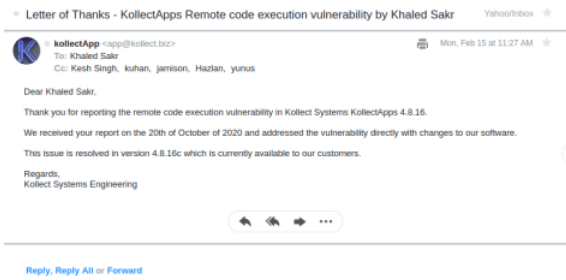
The reason for this is that ysoserial generates the payload using `Runtime.getRuntime().exec("sleep(20000)")`

This new process "Runtime" runs asynchronously in a new thread, hence it didn't work.

In order for the sleep function to work, we need to use `java.lang.Thread.sleep(20)`

which will force the sleep function to run in the same thread, hence the application will sleep for 20 seconds.

Below is the proof of concept code used to modify the file **CommonsCollection3.java** file in ysoserial.



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