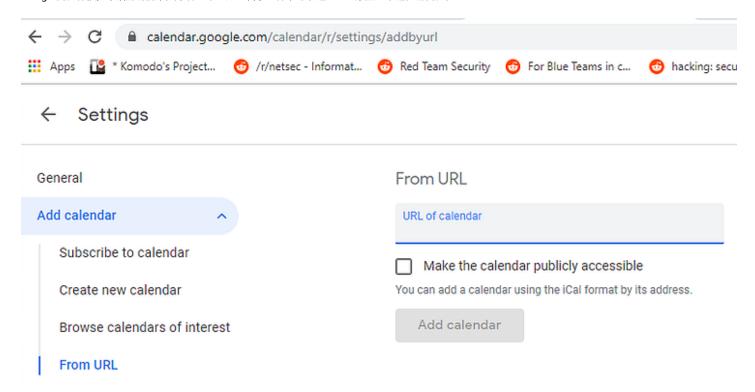
backcover7 / 2019-09-17 09:10:36 / 浏览数 3384 渗透测试 渗透测试 顶(0) 踩(0)

本文是翻译文章,原文链接为: https://www.komodosec.com/post/an-accidental-ssrf-honeypot-in-google-calendar

这是一个我和Google工程师都误以为是Google日历中的SSRF漏洞的故事,最后实际上是因为一些缓存机制的缘故。虽然结果不太好,但是我和Google安全团队的交流很好

从URL导入日历

Google日历有很多不错的功能,其中有一个正如它名字一样,可以通过URL添加一个远程的日历。



Google服务器可以从远程日历上把事件添加到你自己的日历中。或者也可以说是我们使用了Google服务器的HTTP请求。所以访问外部URL是Google服务器的内部操作。但

第一次尝试——貌似安全

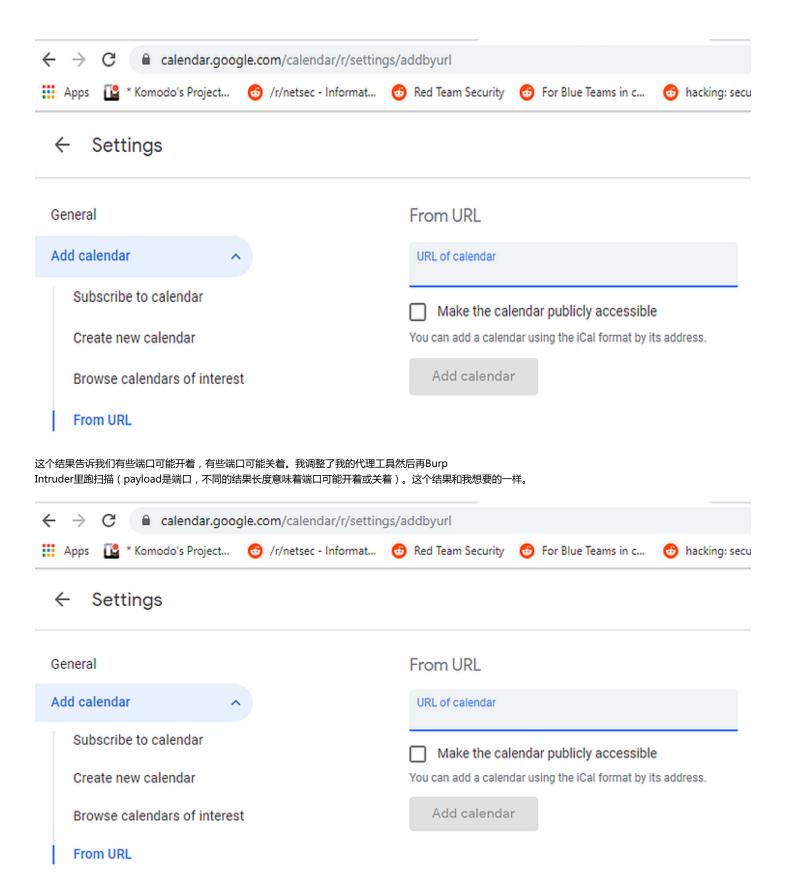
第一次测试并没有得到有趣的记过,因为当我们尝试去访问外部URL时,服务器报错了(不可达或错误格式等错误),当我们输入一个内部地址我们得到了同样的错误。AD



注意到这里curl就是POST参数(可能是calendar url的缩写),而不是一个curl工具。

犹豫不决,那就扫描!

只是为了确信我没有错过什么(可能没有127.0.0.1:443这个端点)。我决定针对localhost上的端口做一个快速的自动化扫描(使用Fiddler的组件发送序列包)。令我惊讶的



在图中可以看到很明显,80,443,22都开着(从内部服务器访问),其他的测试端口都关着。我快速对内网服务器(guts-remedy-linux-prod03.vm.corp.google.com)进



通过这个点我可以确信:

- 1. 我通过Google服务器发送了内部的HTTP的GET请求,并且我可以做一个自动化脚本;
- 2. 我可以接收到一些有用的信息(端口是否开着)。

或者换个说法,我在Google日历中发现了一个"盲SSRF",是时候报告它。

Google工程师复现发现一个bug

我和Google的团队的交流非常迅速。在验证这些问题时他们发现有点复杂,生成结果的时候所做的自动化扫描的时候不能太快(有限制因素在其中)。但是尽管如此,问题



As for your question, I did not get the same results from the UI.

I've investigated a bit further, and I believe I understand why you didn't manage to reproduce the issue --> it doesn't work with single requests.

For some reason (I'm not sure why, perhaps some sort of rate-limiting), results start changing only after issuing many requests (for example with an automated tool). After you cross that threshold, though, and as long as you keep your request rate high (but not too high), results are consistent.

My set-up is simple:

- I'm using Burp Intruder to issue the request
- I've limited the rate to 3 threads, with 1000 miliseconds delay (rate cannot be too high, as then you're blocked completely)
- I'm starting by issuesing ~100 requests that I Ignore, just to cross the initial threshold.

From that point, though, results are consistent.



As for your question, I did not get the same results from the UI.

I've investigated a bit further, and I believe I understand why you didn't manage to reproduce the issue --> it doesn't work with single requests.

For some reason (I'm not sure why, perhaps some sort of rate-limiting), results start changing only after issuing many requests (for example with an automated tool). After you cross that threshold, though, and as long as you keep your request rate high (but not too high), results are consistent.

My set-up is simple:

- I'm using Burp Intruder to issue the request
- I've limited the rate to 3 threads, with 1000 miliseconds delay (rate cannot be too high, as then you're blocked completely)
- I'm starting by issuesing ~100 requests that I Ignore, just to cross the initial threshold.

From that point, though, results are consistent.

所以Google的团队可以复现这个问题,但是他们因为UI的问题导致收到了不一样的结果。为了验证Google的理论,我创建了一个新的没有使用痕迹的Google日历账号并再

To buganizer-system-5

Tely thereit

They thereit

They thereit

The glist is seenario is clearer now :>

The seenarch is seenarch is clearer now :>

The seenarch is seenarch is clearer now :>

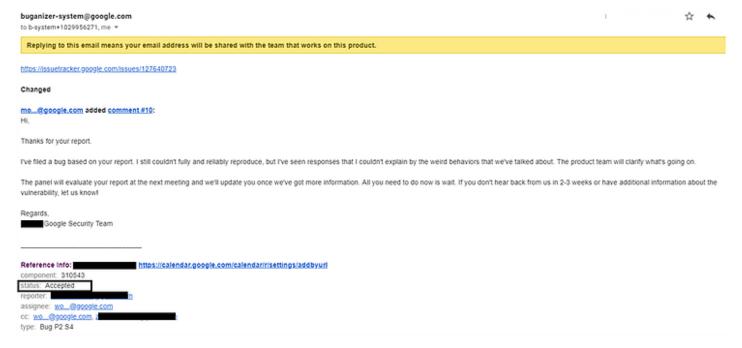
The seenarch is seenarch is seenarch is clearer now :>

The seenarch is seenarch is seenarch is clearer now :>

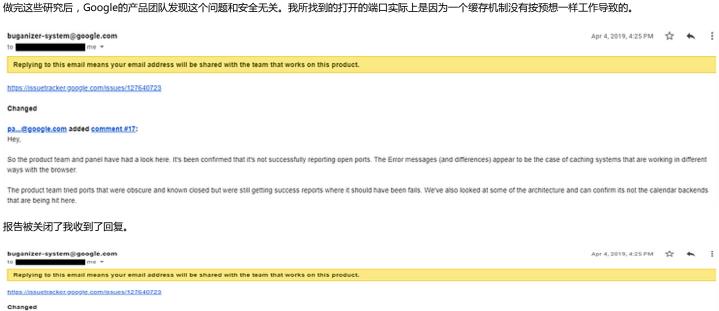
The seenarch is seenarch is seenarch is clearer now :>

The seenarch is seen

这个点上Google的团队和我认为的一样并且开了一个新的bug。



产品团队发现问题和安全无关



最后的思考

我非常尊重Google的团队,因为他们没有放弃这个,直到他们整理出来(缓存问题BTW已修复-同样的错误不再返回)。 不能说我没有失望地发现在旅程结束时,我的SSRF只不过是一个幽灵,但我当然很享受骑行。 我认为对我来说最重要的一点就是不要因最初失败的结果而气馁,因为有时候更深层次的潜水会带你进入复杂而迷人的道路。 这次它导致了一个行为不端的缓存,也许下次会导致一个RCE:)

点击收藏 | 0 关注 | 1

上一篇:code-breaking全部题解... 下一篇:pwn堆入门系列教程4

- 1. 0 条回复
 - 动动手指,沙发就是你的了!

登录 后跟帖

先知社区

现在登录

热门节点

技术文章

社区小黑板

目录

RSS <u>关于社区</u> 友情链接 <u>社区小黑板</u>