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Operation BlockBuster unveils the actors behind the Sony attacks

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Jaime Blasco
February 24, 2016



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Today, a coordinated coalition involving AlienVault and several other security companies led by Novetta is announcing Operation BlockBuster. This industry initiative was created to share information and potentially disrupt the infrastructure and tools from an actor named the Lazarus Group. The Lazarus Group has been responsible for several operations since at least 2009, including the attack that affected Sony Pictures Entertainment in 2014.

Part of our research on this actor was presented at the Kaspersky Security Analyst Summit (SAS) in Tenerife, Spain on February 9th, 2016 as a joint talk between AlienVault and [Kaspersky's Global Research and Analysis Team](#).

In the research that AlienVault and Kaspersky collaborated on, we attributed several campaigns to this actor. Armed with some of the indicators that US-CERT made public after the Sony attack, we continued to analyze different campaigns in 2015 that we suspected were being launched by the same actor. Eventually we were also able to attribute previous activity to the same attackers including:

- [Sony Pictures Entertainment - 2014](#)
- [Operation DarkSeoul - 2013](#)
- [Operation Troy - 2013](#)
- [Wild Positron / Duuzer - 2015](#)

Besides several campaigns were the Lazarus group has utilized wipers to perform destructive attacks, they have also been busy using the same tools to perform data theft and cyber espionage operations.

Today, as part of the Operation BlockBuster release, we want to share some of our findings and TTP's from the Lazarus Group that allowed us to link and attribute all the campaigns and tools into the same cluster of activity. We highly recommend that you read the [comprehensive report Novetta published today](#) that includes details on the project's scope and the more than 45 malware families identified, and includes signatures and guidance to help organizations detect and stop the group's actions.

Featured Resource:
HOT

Gartner

Magic Quadrant for Security Information and Event Management

Published: 20 July 2015

Analyst(s): Kelly M. Kinnear, Chris Ruchford

The need for early detection of targeted attacks and data breaches is driving the expansion of new and existing SIEM deployments. Advanced users are looking to augment SIEM with...

Market Definition/Description: The security information and event tool to apply security analytics to event data, data breaches, and to collect, store, analyze and regulatory compliance. The vendor that have been designed for this purpose the security buying center.

SIEM technology aggregates event data systems and applications. The primary processes other forms of data, such as log, contextual information about users, and...

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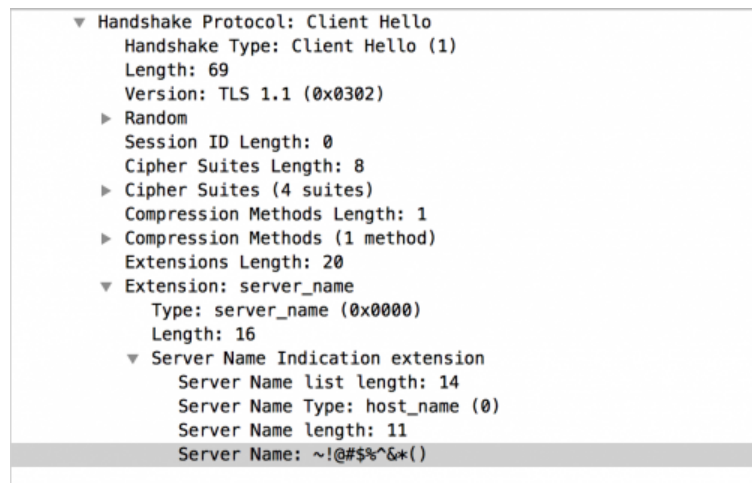
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IDS for Security Analysts: How to Get Actionable Insights from your IDS

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We have identified different families exhibiting slightly different behaviors:

→ Using a static “Server Name” extension in the client_hello packet: “~!@#\$\$%^&*()”



→ Choosing between “www.amazon.com” and “www.google.com” for the “Server Name” value.

→ Randomly choosing one of the following items for the “Server Name” value (this list can vary across different samples):

wwwimages2.adobe.com

www.paypalobjects.com

www.paypal.com

www.linkedin.com

www.apple.com

www.amazon.com

www.adobetags.com

windowslive.tt.omtrdc.net

verify.adobe.com

us.bc.yahoo.com

urs.microsoft.com

supportprofile.apple.com

support.oracle.com

support.msn.com

startpage.com

sstats.adobe.com

ssl.gstatic.com

ssl.google-analytics.com

srv.main.ebayrtm.com

skydrive.live.com

signin.ebay.com

securemetrics.apple.com

secureir.ebaystatic.com

secure.skypeassets.com

secure.skype.com

secure.shared.live.com

secure.logmein.com

sc.imp.live.com

sb.scorecardresearch.com

s1-s.licdn.com

s.imp.microsoft.com

pixel.quantserve.com

p.sfx.ms

mpsnare.iesnare.com

login.yahoo.com

login.skype.com

login.postini.com

login.live.com

l.betrad.com

images-na.ssl-images-amazon.com

fls-na.amazon.com

extended-validation-ssl.verisign.com

daw.apple.com

csc.beap.bc.yahoo.com

by.essl.optimost.com

b.stats.ebay.com

apps.skypeassets.com

api.demandbase.com

ad.naver.com

accounts.google.com

On the other hand, most of the samples we have analyzed communicate with IP addresses that are part of compromised infrastructure. Since the attackers don't leverage domain names for C2 it makes it hard to pivot using whois data, and passive DNS. In addition, there is no way to sinkhole since there is no domain infrastructure.

Another example is the use of user-agent values that contain the misspelled "Mozillar" string.

106776	6E743A20	4D6F7A69	6C6C6172	2F352E30	2028636F	6D706174	nt: Mozillar/5.0 (compat
106800	69626C65	3B204D53	49452039	2E303B20	57696E64	6F777320	ible; MSIE 9.0; Windows
106824	4E542036	2E313B20	57696E64	343B2078	36343B20	54726964	NT 6.1; Win64; x64; Trid
106848	656E742F	362E3029	000A0000	55736572	2D416765	6E743A20	ent/6.0) User-Agent: Moz
106872	4D6F7A69	6C6C6172	2F352E30	2028636F	6D706174	69626C65	zillar/5.0 (compatible
106896	3B204D53	49452038	2E303B20	57696E64	6F777320	4E542036	; MSIE 8.0; Windows NT 6
106920	2E323B20	57696E64	343B2078	36343B20	54726964	656E742F	.2; Win64; x64; Trident/
106944	362E3029	000A0000	55736572	2D416765	6E743A20	4D6F7A69	6.0) User-Agent: Mozil
106968	6C6C6172	2F352E30	2028636F	6D706174	69626C65	3B204D53	lar/5.0 (compatible; MS
106992	49452031	302E3038	2057696E	646F7773	204E5420	362E3138	IE 10.0; Windows NT 6.1;
107016	2057696E	36343B20	78363438	20547269	64656E74	2F362E30	Win64; x64; Trident/6.0
107040	290D0A00	55736572	2D416765	6E743A20	4D6F7A69	6C6C6172) User-Agent: Mozillar
107064	2F352E30	2028636F	6D706174	69626C65	3B204D53	49452039	/5.0 (compatible; MSIE 9
107088	2E303B20	57696E64	6F777320	4E542035	2E313B20	57696E64	.0; Windows NT 5.1; Win6
107112	343B2078	33323B20	54726964	656E742F	352E3029	000A0000	4; x32; Trident/5.0) User
107136	55736572	2D416765	6E743A20	4D6F7A69	6C6C6172	2F352E30	-Agent: Mozillar/5.0
107160	2028636F	6D706174	69626C65	3B204D53	49452038	2E303B20	(compatible; MSIE 8.0;
107184	57696E64	6F777320	4E542035	2E313B20	57696E64	343B2078	Windows NT 5.1; Win64; x
107208	33323B20	54726964	656E742F	352E3029	000A0000	55736572	32; Trident/5.0) User
107232	2D416765	6E743A20	4D6F7A69	6C6C6172	2F352E30	2028636F	-Agent: Mozillar/5.0 (co
107256	6D706174	69626C65	3B204D53	49452031	302E3038	2057696E	mpatible; MSIE 10.0; Win
107280	646F7773	204E5420	352E3138	2057696E	36343B20	78333238	dows NT 5.1; Win64; x32;
107304	20547269	64656E74	2F352E30	290D0A00	55736572	2D416765	Trident/5.0) User-Age

Hangul HWP Document Exploits

Hangul is an office suite and word processing application mainly used in South Korea, especially in the government.

We have observed this actor launching spearphishing campaigns with malicious HWP documents as attachments.

An example is a campaign that was launched on September 2015 that used a zeroday vulnerability (CVE-2015-6585) in the Hangul Word processor which was [reported by FireEye](#).

Based on obtained samples and decoy documents we observed that they were likely targeting a wide range of victims including government, industrial and political entities.

력서

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창원대학교

평균성적

졸업

1월 4일(수) ~ 6일(금)
· 덕유산 리조트 퍼블호텔
15년 7월 15일(수) ~ 10월 16일(금)/ 온라인 접수(논-
2015년 10월 20일(화)/ 온라인 접수
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Computer:

User name: None specified

The computer name field is blank. Enter a full remote computer name.



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Indicators of Compromise

As part of Operation BlockBuster, Novetta is sharing Yara rules and IOC's that you can find at the following website:

[Operation BlockBuster](#)

In addition to that we are making the indicators of compromise available in our Open Threat Exchange:

<https://otx.alienvault.com/pulse/56cdb68f4637f27567167dce/>



WEBCAST:

Detect Ransomware Before It's Too Late with AlienVault USM

By now you've probably heard about new ransomware threats like CryptoWall, which encrypts your data and demands payment to unlock it. These threats are delivered via malicious email attachments or websites, and once they execute and connect to an external

<https://www.alienvault.com/open-threat-exchange/blog/operation-blockbuster-unveils-the-actors-behind-the-sony-attacks>

CHAT NOW

6/7

command and control server, they start to encrypt files throughout your network. Therefore, spotting infections quickly can limit the damage.

[WATCH THE WEBCAST NOW](#) ▶

LEARN MORE:

- 🔗 [2015 Gartner Magic Quadrant for SIEM: Visionary Aliens](#)
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Jaime Blasco

Feb 24, 2016

Operation BlockBuster unveils the actors behind the Sony attacks

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