Threatpost | The first stop for security news

- Categories
 - Category List
 - Cloud Security
 - Critical Infrastructure
 - Cryptography
 - Government
 - Category List
 - Hacks
 - Malware
 - Mobile Security
 - Privacy
 - Category List
 - SAS
 - Vulnerabilities
 - Web Security
 - Authors
 - Michael Mimoso
 - Christopher Brook
 - Additional Categories
 - Slideshows
 - The Kaspersky Lab News Service
- Featured
 - Authors
 - Michael Mimoso
 - Christopher Brook
 - The Kaspersky Lab News Service

Featured Posts



ShadowBrokers Planning Monthly Exploit, Data Dump...



WikiLeaks Reveals Two CIA Malware Frameworks



OpenVPN Audits Yield Mixed Bag

Podcasts

Latest Podcasts





Matthew Hickey on WannaCry Ransomware Outbreak



Threatpost News Wrap, May 12, 2017

Threatpost News Wrap, May 5, 2017

Threatpost News Wrap, April 28, 2017

Threatpost News Wrap, April 21, 2017

Threatpost News Wrap, April 14, 2017

Recommended

The Kaspersky Lab Security News Service

• Videos

Latest Videos



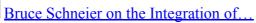
iOS 10 Passcode Bypass Can Access...



BASHLITE Family Of Malware Infects 1...



How to Leak Data From Air-Gapped...





Chris Valasek Talks Car Hacking, IoT....



Patrick Wardle on OS X Malware...

Recommended

The Kaspersky Lab Security News Service

- Search
- Twitter
- Facebook
- Google
- LinkedIn
- YouTube
- RSS
- .

Welcome > Blog Home > Malware > WannaCry Shares Code with Lazarus APT Samples

```
in 0
                 3 0
                                                  al,
and
         al,
                                         and
         al,
                                                  al,
or
                                         or
inc
                                         inc
         esi
                                                  esi
                                                  [ebp+0], eax
mov
         [ebp+0], eax
                                         mov
         byte ptr [esi-1],
                                                             [esi-1],
mov
                                         mov
                                                  byte ptr
mov
         byte ptr [esi],
                                         mov
                                                  byte ptr [esi],
inc
         esi
                                         inc
                                                  esi
         esi
                                         push
push
                                         call
                                                  sub 401A20
call
                                         add
push
                              Time
                                                  esp, 8
call
         ds:time
                                         push
add
         esp, OCh
                                         push
                                                                     ;
push
                               hostlong call
                                                  ds:time
         eax
call
                                         add
         ds:htonl
                                                  esp, 4
         [esi], eax
mov
                                         cda
         esi, 20h
byte ptr [esi], 0
add
                                                  edx
                                         push
mov
                                         push
                                                  eax
inc
         esi
                                         call
                                                  sub 4019E0
call
         ds:rand
                                                  [esi], eax
                                         mov
cdq
                                         add
mov
         ecx, 5
                                         add
```

WannaCry Shares Code with Lazarus APT Samples

```
Follow @mike_mimoso by Michael Mimoso May 16, 2017, 11:45 am
```

As the first inkling of attribution emerged in the WannaCry ransomware outbreak, researchers found another attack using the same leaked NSA attack tools to spread the Adylkuzz cryptocurrency miner.

Kafeine, a well-known exploit researcher who works for Proofpoint, said Monday that this attack could be greater in scale than WannaCry, which spread worldwide on Friday infecting Windows machines still unpatched against the SMBv1 vulnerabilities exploited by the NSA's EternalBlue exploit and DoublePulsar rootkit and backdoor. Once Adylkuzz infects a machine, it mines the open source Monero cryptocurrency, which goes to great lengths to obfuscate its blockchain information, making it a challenge to trace activity.

Related Posts

Next NSA Exploit Payload Could be Much Worse Than WannaCry

May 17, 2017, 1:19 pm

ShadowBrokers Planning Monthly Exploit, Data Dump Service

May 16, 2017, 8:30 am

WikiLeaks Reveals Two CIA Malware Frameworks

May 16, 2017, 6:39 am

Kafeine said the Adylkuzz attacks pre-date WannaCry with the first samples going back to April 24. More than 20 virtual private servers are scanning the internet for targets running port 445 exposed, the same port used by SMB traffic when connected to the internet, and the same port abused by EternalBlue and DoublePulsar.

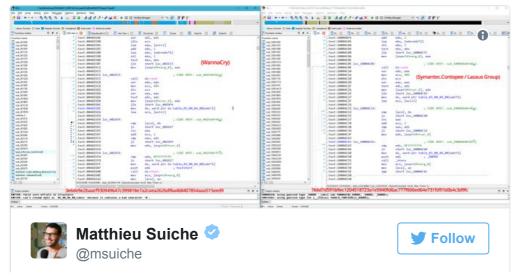
"Upon successful exploitation via EternalBlue, machines are infected with DoublePulsar. The DoublePulsar backdoor then downloads and runs Adylkuzz from another host," Kafeine said. "Once running, Adylkuzz will first stop any potential instances of itself already running and block SMB communication to avoid further infection. It then determines the public IP address of the victim and download the mining instructions, cryptominer, and cleanup tools."

In the meantime on Monday afternoon, Google researcher Neel Mehta, the same researcher who discovered the Heartbleed vulnerability in 2014, posted a tweet indicating a connection between WannaCry and the Lazarus APT. Lazarus is alleged to be behind the 2016 SWIFT attacks in Bangladesh and a number of other incursions against other banks, casinos and cryptocurrency operations.



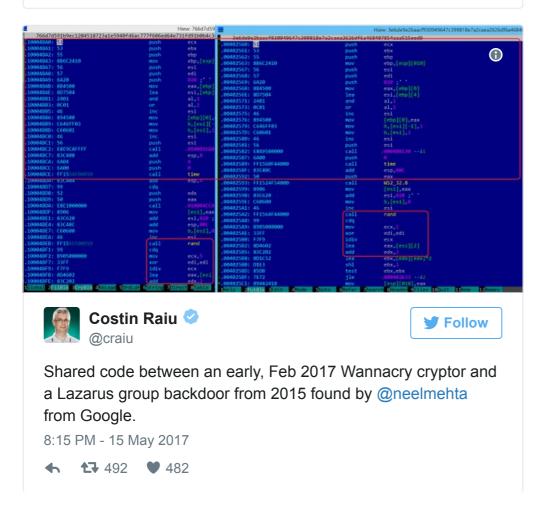
Mehta's tweet shows a code array shared between a Lazarus sample from February 2015 and an early version of WannaCry that surfaced in February of this year.

Since then, researchers at Kaspersky Lab, Symantec and Comae Technologies Matt Suiche have <u>confirmed</u> <u>the similarities</u>, adding fuel to the possible connection between North Korea and the current ransomware outbreak.



Similitude between #WannaCry and Contopee from Lazarus
Group! thx @neelmehta - Is DPRK behind #WannaCry?
8:04 PM - 15 May 2017

♣ ♣ 525 ♣ 435



Lazarus' history is a notorious one, starting with the 2014 Sony hack, which it is alleged to have pulled off. The group stole and leaked movie scripts, sensitive corporate emails and much more private data from the company, and also used wiper malware to damage internal workstations at Sony Pictures Entertainment.

Last year's massive heist starting at the Bangladesh Bank abused the organization's connection to the SWIFT network to make close to a \$1 billion in fraudulent transactions. All but \$80 million had been recovered once the attack was made public.

At this year's Kaspersky Lab Security Analyst Summit, researchers from Kaspersky, BAE Systems and SWIFT talked shared more details about Lazarus' activities, including a group within the APT it called Bluenoroff dedicated to stealing money in order to fund Lazarus' activities.

They've hardly been as successful generating the same revenue with WannaCry, which at last count has collected 40 Bitcoin, which translates to about \$71,000 USD.

"For now, more research is required into older versions of Wannacry," Kaspersky Lab said in a report published Monday. "We believe this might hold the key to solve some of the mysteries around this attack. One thing is for sure — Neel Mehta's discovery is the most significant clue to date regarding the origins of Wannacry."

A request made to Google to speak with Mehta was declined.

"Nothing to add beyond Neel's tweet," a Google spokesperson told Threatpost.

While researchers admit the evidence is hardly definitive, this would be the first publicly known tools stolen from one nation-state to be used on such a scale.

"The attribution to Lazarus Group would make sense regarding their narrative which in the past was dominated by infiltrating financial institutions in the goal of stealing money," Suiche said in a report published Monday. "If validated, this means the latest iteration of WannaCry would in fact be the first nation state powered ransomware. This would also mean that a foreign hostile nation would have leveraged lost offensive capabilities from Equation Group to create global chaos."

Kaspersky Lab also said the likelihood of this being a false flag operations is "improbable;" Kaspersky researchers have published several reports in the past 18 months on APTs and false flags.

"In theory anything is possible, considering the 2015 backdoor code might have been copied by the Wannacry sample from February 2017. However, this code appears to have been removed from later versions," Kaspersky Lab said. "The February 2017 sample appears to be a very early variant of the Wannacry encryptor. We believe a theory a false flag although possible, is improbable."

Kaspersky Lab's Juan Andres Guerrero Saade and Matt Suiche will co-host a webinar on the possible Lazarus connection Wednesday at 10 a.m. Eastern. Register here.















Categories: Malware

Leave A Comment

| Your email address will not | be published. Required | fields are marked * | |
|-----------------------------|------------------------|---------------------|---|
| | | | |
| Comment | | 4 | |
| | • | | <abbr title=""> <acronym .me=""> <i> <q <="" cite="" th=""></q></i></acronym </abbr> |
| Email | | | |
| Post Comment | | | |
| | | | |

Recommended Reads

Notify me of new posts by email.

Notify me of follow-up comments by email.



May 17, 2017, 1:19 pm

Categories: Government, Malware

37

Next NSA Exploit Payload Could be Much W orse Than WannaCry

by Michael Mimoso

Researchers urge Windows admins to apply MS17-010 before the next attack using the EternalBlue NSA exploit deploys a worse payload than WannaCry ransomware.

Read more...



S+ 13

in 0

May 16, 2017, 8:30 am

Categories: Featured, Government, Malware, Vulnerabilities

ShadowBrokers Planning Monthly Exploit, Data Dump Service

by Michael Mimoso

The latest rant from the ShadowBrokers ends with news of a subscription service starting in June that will leak exploits and stolen data to paying customers.

Read more...



May 16, 2017, 6:39 am

f 0

in 0

Categories: Featured, Government, Hacks, Malware, Privacy, Vulnerabilities, Web Security

6 17

WikiLeaks Reveals Two CIA Malware Frameworks

by Tom Spring

WikiLeaks released details on what it claims are two frameworks for malware samples dubbed AfterMindnight and Assassin, both allegedly developed by the US Central Intelligence Agency. Read more...

Top Stories

OpenVPN Audits Yield Mixed Bag

May 15, 2017, 5:12 pm

Apple Patches Pwn2Own Vulnerabilities in Safari, macOS, iOS

May 16, 2017, 1:56 pm

WikiLeaks Reveals Two CIA Malware Frameworks

May 16, 2017, 6:39 am

Fuze Patches Bug That Exposed Recordings of Private Business Meetings

May 2, 2017, 9:05 am

ShadowBrokers Planning Monthly Exploit, Data Dump Service

May 16, 2017, 8:30 am

Vanilla Forums Open Source Software Vulnerable to RCE, Host Header Injection Vulnerability

May 11, 2017, 4:39 pm

Microsoft Makes it Official, Cuts off SHA-1 Support in IE, Edge

May 10, 2017, 1:09 pm

Android Permissions Flaw Will Linger Until O Release

May 10, 2017, 1:57 pm

The Final Say

From Kaspersky Blogs



They Asked Me... Everything!...

Hi folks! Yesterday, I hosted an 'Ask Me Anything' (AMA) on Reddit. I wanted to take a moment to thank the attendees for all of their questions – especially the challenging ones. So here g...

Read more...



WannaCry and Lazarus Group - the missing link?...

Moments ago, Neel Mehta, a researcher at Google posted a mysterious message on Twitter. The cryptic message in fact refers to similarity between samples that have shared code between themselves. The t...

Read more...



WannaCry: On screens everywhere!

Embedded systems demand special protection from infections similar to WannaCry.

Read more...



WannaCry: On screens everywhere!

Embedded systems demand special protection from infections similar to WannaCry.

Read more...



Kaspersky Academy attended MIT (IC)3 Annual Confer...

72 guests, among them a global security lead Gordon Morrison, attended the MIT (IC)3 Annual Conference to share the latest insights into the industry. Educational programs manager Christel Gampig-Avil...

Read more...

Threatpost | The first stop for security news The Kaspersky Lab Security News Service CategoriesBlack Hat | Cloud Security | Critical Infrastructure | Cryptography | Featured | Government | Hacks | IoT | Malware | Mobile Security | Podcasts | Privacy | Security Analyst Summit | Slideshow | Uncategorized | Videos | Vulnerabilities | Web Security

- RSS Feeds
- Home
- About Us
- Contact Us

Authors

Michael Mimoso Tom Spring Christopher Brook

Copyright © 2017 Threatpost | The first stop for security news

- | Terms of Service
- | Privacy