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28 Jun 2020 - 11 Jul 2023

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Applied Security Research

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Sunday, 3 March 2019

Threat Hunting #26 - Remote Windows Service Creation / Recon

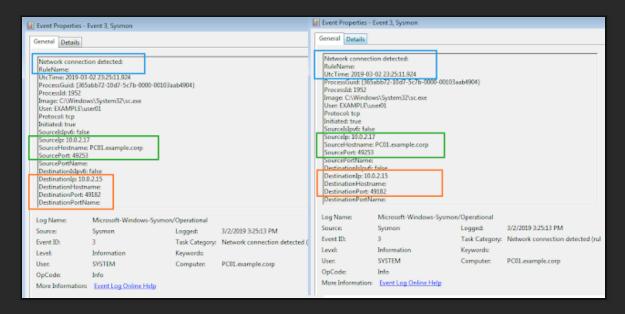
Interacting remotely with windows services is one way to execute programs remotely as well as persisting across system reboots. It can be done via different utilities (sc.exe, WMI etc.) but in this post we will be focusing more on artifacts and methods to detect this based on static behavioral indicators and independently from the used utilities.

A) Create remotely a service using legit windows built-in utilities:

Example of a command to create remotely a new service "remotesvc" on host 1.2.3.4 that persist system reboot and executes cmd exe:

sc \\1.2.3.4 create remotesvc binpath= cmd.exe type= own start= auto

From the source machine, we can see clearly sc.exe is connecting to a remote host and source|destination ports are both dynamic RCP port numbers [TCP 49152-65535]:



Monitoring sc.exe process execution command line and network connections is good but not resilient enough and can be bypassed easily as a detection (a.k.a rename sc.exe to something else and run it from another folder).

On the target machine, the most interesting observed events are:

Windows Built-in:

- [System Events] Event-ID 7045: A service was installed on the system (expected, since we've created a service)
- [Security Events] Event-ID 5156: The Windows Filtering Platform has allowed a connection

If you enable System> Security System Extension in your Advanced Audit Policy GPO you will be able to see eventid 4697 in your security events and which is equivalent to 7045.

Sysmon:

- [Sysmon RegValueSet] ID 13: Registry Value Set (HKLM\System\CurrentControlSet\services\<svcname>*, which is expected since we've created a service)
- [Sysmon Network Connect] ID 3: Network Connection Detected

Both events 5156 and 3 (sysmon) contain same information and indicates incoming and/or outgoing network connections from the services.exe process to the source machine of our command. Which is a good indication of remote interaction with the service control manager on the target machine.

Sysmon's observed key events:

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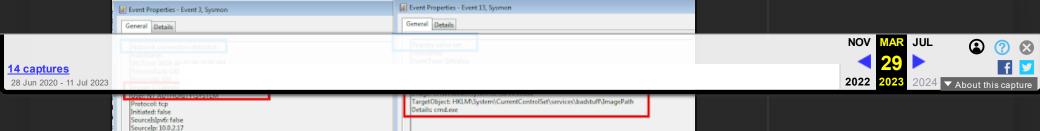
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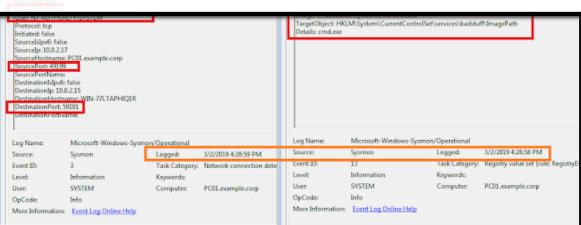
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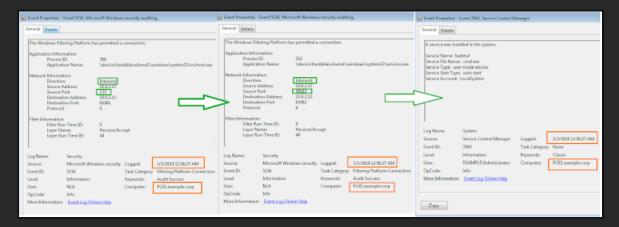
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Windows's builtin observed key events:



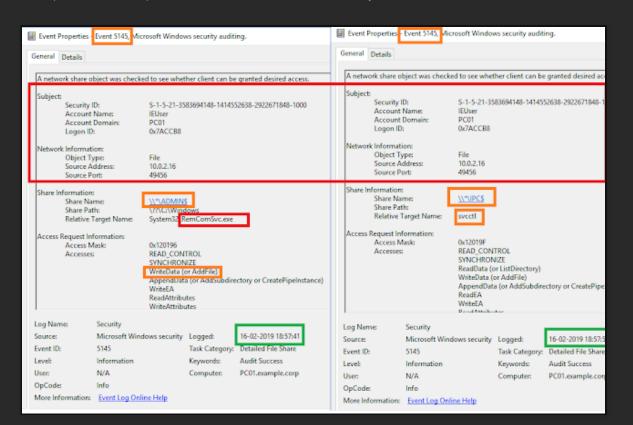
B) Creating a remote service using external utilities (i.e. psexec, paexec, psexec_psh, remcom etc.):

The aforementioned third party utilities are extremely useful for an attacker to move laterally and expand the compromise. High level modus operandi is quite simple and similar across this category of utilities:

- 1. Extract a service PE from it's resource section or download it from elsewhere
- 2. Copy the extracted PE to the destination host
- 3. Register a service on the destination machine (with binpath pointing to the PE extracted in step 2) and send a start control to begin execution
- 4. Start Interacting with the remote machine

To detect reliably the above steps we will be using our best friend event 5145:

• [Security] EventID 5145 - A network share object was checked to see whether client can be granted desired access - > will help us to detect step 2 and 3 from the destination host security events:



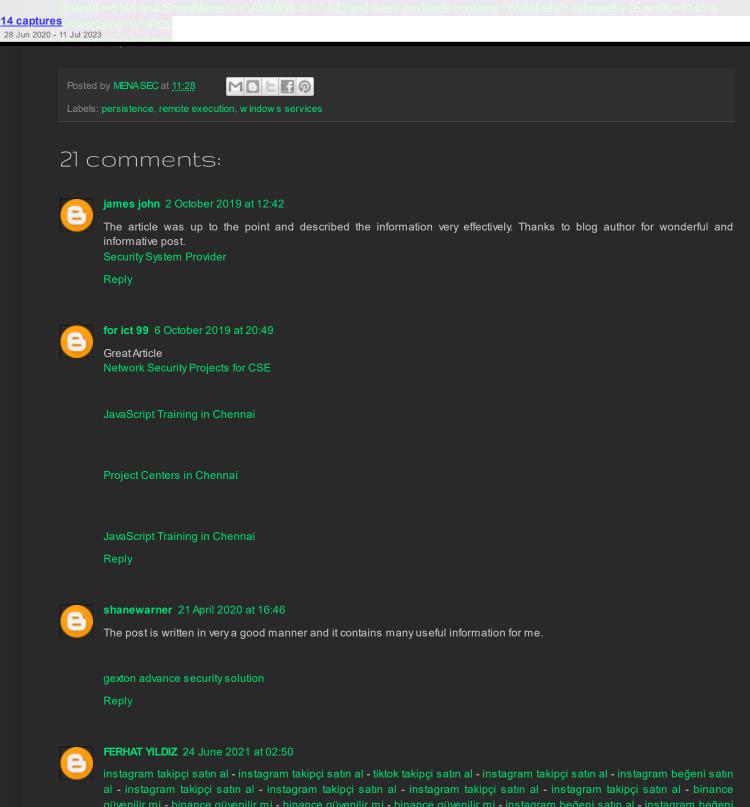
Detection & Takeaways:

Correlation Rule 1 (standard remote service creation - windows builtin):

[EventID=5156 and ApplicationName like "*\services.exe" and SourceAddress != DestinationAddress and SourcePort>=49152 and DestinationPort>=49152 and SourceAddress!=Null and DestinationAddress!=Null] followed by (EventID=7045 or EventID=4697) within 1 min and same ComputerName.

Correlation Rule 2 (standard remote service creation - sysmon):

[EventID=13 and TargetObject like "HKLM\System\CurrentControlSet\services*"] followed by [EventID=3 and SourceIP!= DestinationIP and SourcePort>=49152 and DestinationPort>=49152 and Image like "*\services.exe" and SourceIP!=Null and DestinationIP!=Null] within 1 minute and Same ComputerName.



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Unknown 23 July 2021 at 13:41

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Unknown 13 August 2021 at 17:41

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Dank



Tomy Goldenson 8 December 2021 at 22:06

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Yorkie Female Puppies for sale

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sdsaaa 8 February 2022 at 02:05

The breed became very popular in the early 1900s, and in 1913 and 1914, https://oneshoppharmacy.com they were among the 10 most popular entries in the Westminster Kennel Club Show. During World War I, however, the breed fell on hard times in the U.S. and England because they were poodle for sale closely associated with Germany. Dachshund owners sometimes were called traitors and their dogs stoned. After

World War I, some U.S. breeders dachshunds for sale imported some Dachshunds from Germany and the breed started to become popular once again. The breed faced a similar fate during World War II, but not nearly so severely as during World War I

In the 1950s, Dachshunds became one of the most popular family dogs in the U.S. again, a status they have enjoyed ever https://Greenlandpuppies.com

since. While Dachshunds mini dachshund puppy for sale rarely are used as hunting dogs in the U.S. or Great Britain, in other parts of Europe, especially France, they still are considered hunting dogs. mini dachshund puppies for sale Dachshunds also love a challenge, and as long as you incorporate plenty of opportunities to chase and find things, you'll miniature dachshund for sale have a happy dog. These dogs love their human parents, and really don't want them to leave.

Reply



sdsaaa 8 February 2022 at 02:06

Dachshunds are bred and shown in two sizes: Standard and Miniature. https://www.cutespupsforsale.com/ Standard Dachshunds of all varieties (Smooth, Wirehair, and Longhair) usually weigh between 16 and 32 pounds. Miniature Dachshunds of all varieties weigh 11 pounds and under at teacup poodle for sale maturity. Dachshunds that weigh between 11 and 16 pounds are called Tweenies. Some people who breed exceptionally small Dachshunds advertise them as Toy Dachshunds, but this is purely a poodles for sale marketing term, not a recognized designation. He's bred for perseverance, which is another way of saying that he can be stubborn. Dachshunds have a reputation for being dachshund puppies sale entertaining and fearless, but what they want most is to cuddle with their people. Longhairs are calm and quiet, and Smooths have dachshund for sale a personality that lies somewhere in between. https://Greenlandpuppies.com Some Mini Dachshunds can be nervous or shy, but this isn't correct for the breed. Avoid puppies that show these characteristics. Like every dog, Dachshunds need early socialization-exposure to many different people, dachshund puppies for sale near me sights, sounds, and experiences-when they're young. Socialization helps ensure that your Dachshund puppy grows up to be a well-rounded dog. .

Reply



sdsaaa 8 February 2022 at 02:07

The dachshund was bred in Germany hundreds of years ago to hunt badgers. https://www.poodlespring.com/ "Dach" means badger and "hund" means dog. The three varieties of dachshund, smooth-,As family dogs, dachshunds are loyal companions and good watchdogs.

https://Greenlandpuppies.com They are good with children if treated well. They can be slightly difficult to train. Dachshund puppies for sale wire-,and long-coated, originated at different times. The smooth was the first and arose from a mixture of a miniature French pointer and a pinscher. The breed also comes in two sizes: standard and miniature, with the standard the original size.

The dachshund has short, strong legs that enable the dog to dig out prey and go inside burrows. Larger versions of the breed were used to chase deer or fox.

Smaller dachshunds Dachshund puppy for sale were bred for hunting hares and ferrets.

The breed is still used for hunting, primarily in Europe, nine in dachshunds puppies for sale ches in height. All three types are known

The dachshund's coat may be shades of red, black, chocolate, white or gray. Some have tan markings or are spotted or dappled. Dachshunds live about 12 to 15 years. toy poodle for sale espite their size, dachshunds are known for their courageous nature and will take on animals much larger than themselves. Some may be aggressive toward strangers and other dogs

Some dachshund fanciers say there are personality differences among the different varieties of the breed. For instance, the long-coat dachshund is reportedly calmer teacup poodles for sale than the smooth-coat variety,

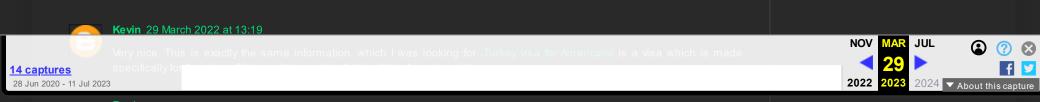
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uniqueaiminc 24 March 2022 at 00:07

I am impressed with your work and skills ${\color{red}\textbf{Local Security Agency}}$

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Unknown 6 April 2022 at 21:28

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Renly



WB Sales and Service 12 April 2022 at 19:53

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Unknown 27 April 2022 at 20:17

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2015 SECURITY SERVICES LTD 7 May 2022 at 21:53

Thanks for sharing this valuable information about **London Security Services**. I have gone through your post and got meaningful information.

Reply



dennishcaraid 14 May 2022 at 13:24

Hii guys, this is excellent information! You can travel to India. But first you need an Indian visa. You can never enter India without a visa. I am using India visa website services. This website helps a lot and provides fast visa services.

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Unknown 31 May 2022 at 18:42

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Unknown 3 June 2022 at 05:47

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