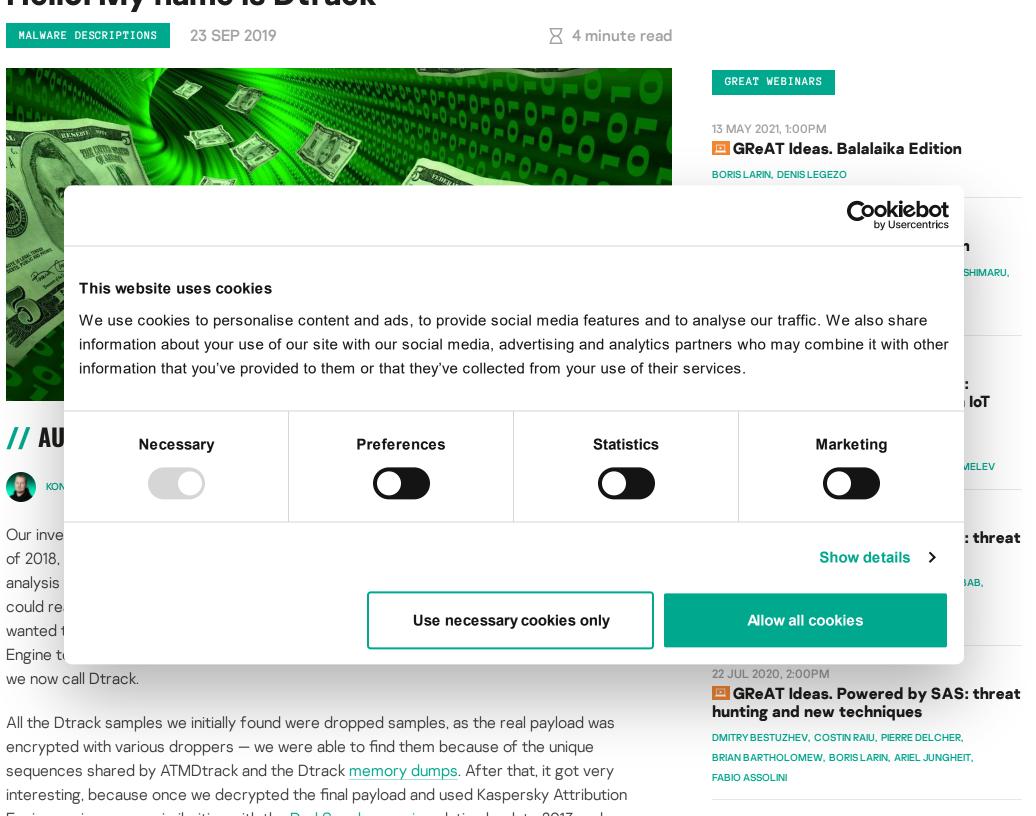


## Hello! My name is Dtrack



Engine again, we saw similarities with the DarkSeoul campaign, dating back to 2013 and attributed to the Lazarus group. It seems that they reused part of their old code to attack the financial sector and research centers in India. According to our telemetry, the last activity of DTrack was detected in the beginning of September 2019.

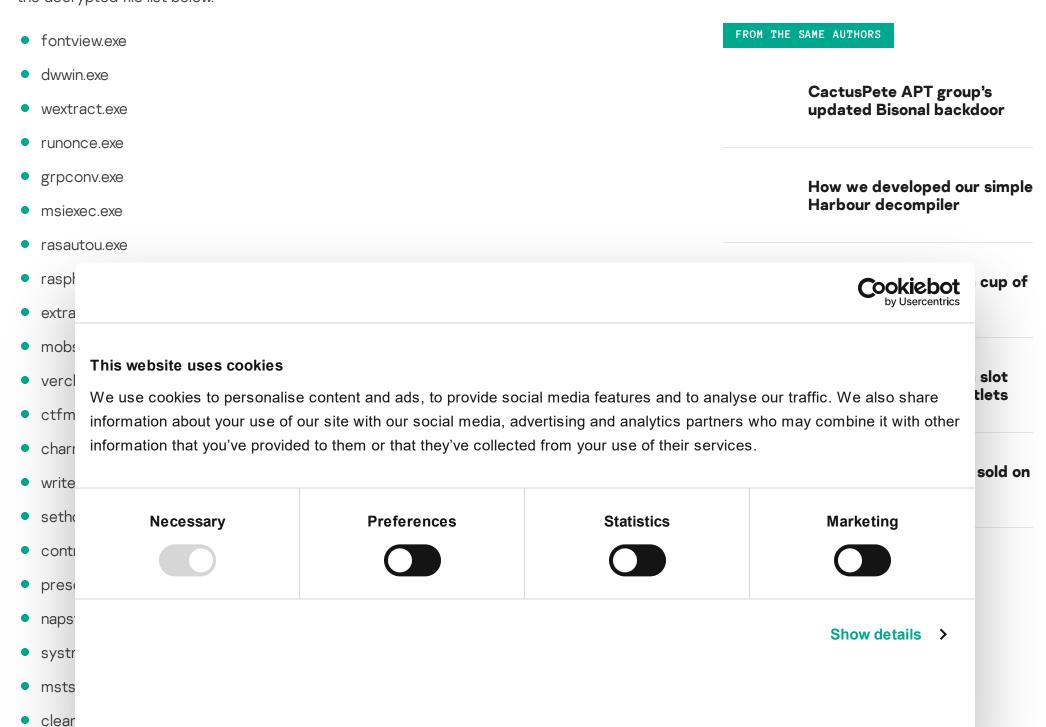
### **Technical details**

The dropper has its encrypted payload embedded as an overlay of a PE file as extra data that will never be used in normal execution steps. Its decryption routine, part of an executable physical patch, begins somewhere between the start() and WinMain() functions. A fun fact is that the malware authors embedded their malicious code into a binary that was a harmless executable. In some cases, it was the default Visual Studio MFC project, but it could be any other program.

The decrypted overlay data contains the following artifacts:

- an extra executable:
- process hollowing shellcode;
- a list of predefined executable names, which the malware uses as a future process name.

After decryption of the data, the process hollowing code is started, taking the name of the process to be hollowed as an argument. The name comes from the predefined list found within the decrypted overlay. All the names come from the %SYSTEM32% folder, as you can see in the decrypted file list below.



# What is inside the dropper?

After execution, the target of the process hollowing is suspended until its memory is overwritten with the decrypted executable payload from the dropper overlay. After this, the target process resumes.

The droppers contain a variety of executables, all of these intended for spying on the victim. Below is an incomplete functionality list for the various Dtrack payload executables found:

- keylogging,
- retrieving browser history,
- gathering host IP addresses, information about available networks and active connections,
- listing all running processes,
- listing all files on all available disk volumes.

At this point, the design philosophy of the framework becomes a bit unclear. Some of the executables pack the collected data into a password protected archive and save it to the disk,

while others send the data to the C&C server directly.

Aside from the aforementioned executables, the droppers also contained a remote access Trojan (RAT). The RAT executable allows criminals to perform various operations on a host, such as uploading/downloading, executing files, etc. For a full list of operations, see the table below.

command id	description				
003	upload a file to the victim's o	computer		Subscribe to our weekly e-mails  The hottest research right in your	
005	make target file persistent v	with auto execution on the victim's host st	art		
006	download a file from the victim's computer			inbox	
007	dump all disk volume data and upload it to a host controlled by criminals		als	Email(Required)	
800	dump a chosen disk volume and upload it to a host controlled by criminals				
D11	dump a chosen folder and upload it to a host controlled by criminals			l agree to provide my email address to "AO Kaspersky Lab" to receive information about ne posts on the site. I understand	
)18	set a new interval timeout value between new command checks				
)23	exit and remove the persist	ence and the hinary itself		that I can withdraw this consen	
efault				Cookiebot by Usercentrics	
TMDTradimilaritic amples lear that	Necessary	Preferences	Statistics	Marketing	
tring m					
aramet OR argı				Show details >	
HAR *_					
CHAR signe					
	chunk == -1 )	an j			
Initial	izeCriticalSection(&CriticalSection)	* *			
input_str	<pre>ing_len = strlen(input_s chunk &gt;= 4 )</pre>				
else ++buf_c					
	ke((int)&raw_buf[2048 * ncmp(input_string, "CCS_				
lstrcpy LeaveCr result	A(&raw_buf[2048 * buf_chiticals iticalSection(&Criticals = &raw_buf[2048 * buf_ch				
} else {					
	= 1; i < input_string_1				
LeaveCr	uf_minus_one[2048 * buf_ iticalSection(&CriticalS = &raw_buf[2048 * buf_ch		<pre>*input_string;</pre>		

Functions common to the two families (the functions/arguments were named by the researchers)

#### **Conclusions**

When we first discovered ATMDtrack, we thought we were just looking at another ATM malware family, because we see new ATM malware families appearing on a regular base. However, this case proved once again that it is important to write proper YARA rules and have a solid working attribution engine, because this way you can uncover connections with malware families that have appeared in the past. One of the most memorable examples of this was the <a href="WannaCry">WannaCry</a> attribution case. Now we can add another family to the Lazarus group's arsenal: ATMDtrack and Dtrack.

The vast amount of Dtrack samples that we were able to find shows that the Lazarus group is one of the most active APT groups in terms of malware development. They continue to develop malware at a fast pace and expand their operations. We first saw early samples of this malware family in 2013, when it hit Seoul. Now, six years later, we see them in India, attacking financial institutions and research centers. And once again, we see that this group uses similar tools to perform both financially-motivated and pure espionage attacks.

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- 3a3bad366916aa3198fd1f76f3c29f24
- F84de0a584ae7e02fb0ffe679f96db8d

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#### Hello! My name is Dtrack

Your email address will not be published. Required fields are marked \*

Type your comment here		
		,

Name \*

Email \*

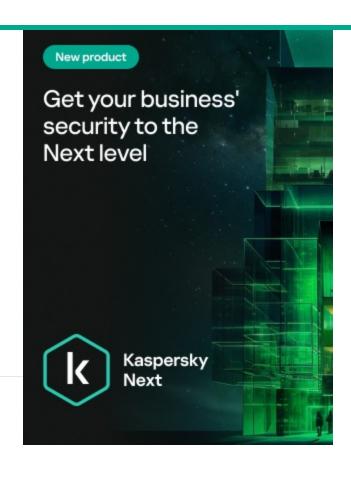


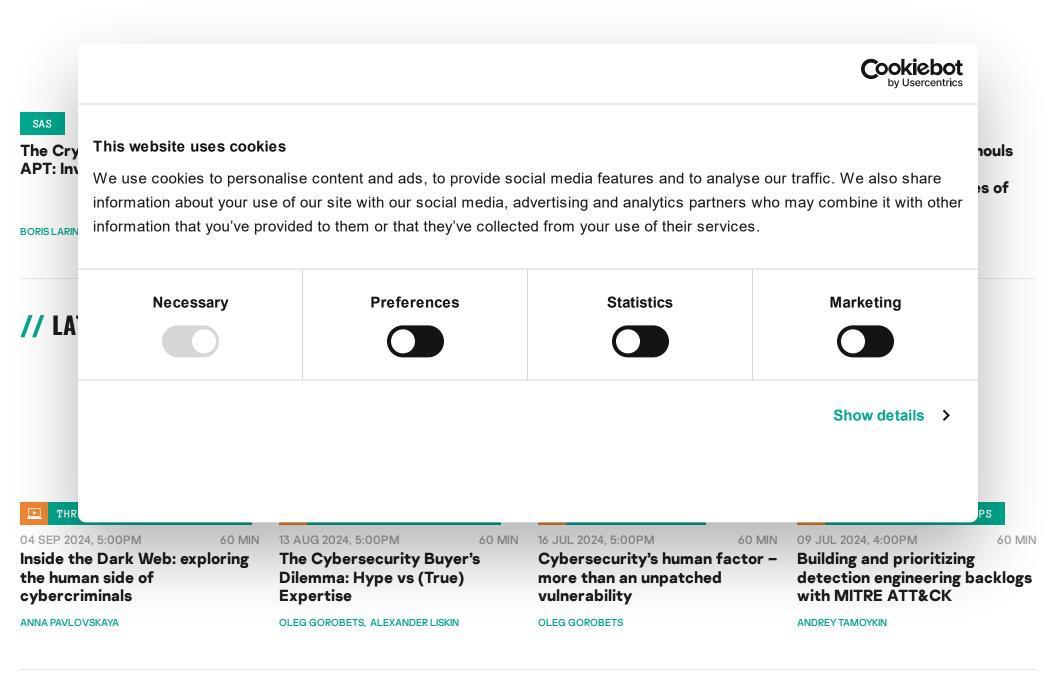
Posted on October 24, 2019. 9:41 am

I want to know which is Dtrack? When I debuged 3a3ba...c29f24, then I get the Rat, but where is the Dtrack? The Rat is Dtrack?

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