

Table of Contracts.

The second secon

he service injuster targets the Themes service-process. It first locates and opens the process, then allocates memory within it to write ACRIBICS Sections Types (torset) in Crussers) justice from and did planing with stab-code loyer. The male code is evegorable for decompressing sel backdoor bytes and injusting them into the service process memory.

The backdoor has an execution day and time check, it compares the current system day and hour to the hardcoded string to a security string, where the numbers mean the following:

If the secucion-day and hour do not match, it diseps for 15 seconds and checks again, in the cases we've seen, the backdoor is configured to run

The backdoor configuration is either staned in C15ters/Publis/concacte mul or hashcoded within the binary. If staned in the file, the first byte server as the XDR key to decode the remaining data. When hashcoded, the configuration is decoded using a single-byte XDR key (St.CP). This configuration includes the command-one control ICP1 becames and port.

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The papel develoated by the CASSESE backers as plage extrement in the form of a SEL file with the immediates "seas" of which exquires a single intended. "A supremoting intended part of the papel intended papel pap

- information

 The Nedfold name of the domain;

 The Nedfold name of the domain;

 Convert usage of physical and virual memory;

 System bloods and time zone settings;

 Mindows character encoding;

 The convergences identifier;

 I dentifiers for any loaded plugins.

- The identifier of the parent process;
 The lifety qualified parts of each process executable.

Once the information is sent, the plugin onthestrator waits for commands to execute. The following commands are supported:

Command	Description
06	This command supports serveral sub-commands:
	2 Reserve and inject plugins into memory. There can be multiple plugins basined one after another Each plugin an identities.
	3 United a specific plops from memory, sensore the plagin from the fol, and free the plops code lights.
	& No operation.
	S Remove of plugins from the bul and free the plugin unde bytes.
ET and OR	Omits if the plages is baseded or red. If the plages is based, then self the specified report method of the plages if plages is not based, then should fibe plages has been received, then based it, and self the specified export metho Otherske, justimates a plages entry.

The plugins are SLI. files and export time methods using ordinals. The plugin orthermore first calls the exponent method of the plugin with the ordinal number 2. This method is responsible for injecting the plugin list. in our memory, after that, the ordinal surror are first the exponent method of the plugin with the exponent and surror are first to the exponent method of the plugin with the exponent surror are first the exponent method of the plugin with the exponent method of the plugin with the exponent method of the plugin with the codinal number 2. This method implements the functionality of the plugin.

All the plugins are responsible for receiving and executing commands from the orchestrator. Below, we provide brief descriptions of the analyzed classins and the commands supported by each of them.

Significing accidinate pageoast into memory. The table below contains commands it accepts.				
0402	 Diesk and endlic Beiblog Privilege, Indiadop Privilege, Belleskon Privilege and EnflateCommonlig Privilege for the auterial process. 			
0409	 Link Sten and Solders at the operatinel paths or at some of the following boundaries ESECTOP, SECOCIAMENTS, SECOCIA SIGN NAVORITES, ETANTAP, RECENT, "Critical and Parkets and the windows are decided manager sharing follows." 			
	 Del information about USE storage devices that have been connected to the computer by querying the registry larg HEAM EXPLISE Connections of the Energial SECTION. 			
8407	Ent information about drives.			
DaGB.	Endede modifyle demokraties or films.			
0409	Centre a diversity of the specified location.			
0404 (10)	Ensure an existing directory file to a new directory file.			
Da08 (11)	More or copy as existing directory file to a new directory file.			
BHDC (72)	More or copy multiple existing directories, files to new directories, files.			
De0 (13)	Befindively is just the received executable and DCL into memory.			
DuOF (15)	Cel abid of likes and hilbers at a specified bookstonreconstraty. Month of likes described by explore of the assembled by discribing data.			

0x14 (20)	 Launh the passed command live ris the ContePromotXLEN. The module can also found the passed command live ris ContePromotolicReW to not in the security context of the user represented by the lotter of specified promotolic. 			
BA22 (34)	 Adjust the security (EACL) for the one groups LOCAL IDITINAL ALTHERITICATED LIBRAL DOMESTS ADMINISTRATION and COMMAN USER to good assesses to specified file or densiny. 			
Da23 (20)	Load a DLL of the specified path via Load-Stray(V.			
Exce (M)	Set the blad of a Strepplem volume.			
eas pay	Copy on existing file to a new file.			
	 Change the existing and new life time parameters (but note time, but assess time and swedies time) to those of sear(3) dil. 			
Process Manager				
Process Manager This plugin manages process-related ac	tivities such as:			
Listing running processes in the syst	MIC;			
Launching new modules and execut Terminating existing processes.	ng command lines;			
It accepts four commands.				
Command	Description			
0x30 (34)	Terminale the process with the specified process ID.			
Be11 (73)				
	specified process III.			
\$15 pg	 Ext information about the last of naming processes in the system. The module also collects user accounts associated with the processors. 			
Date (10)				
ELGR (DR)	Bei Steathfale.			
Remate Access Manager				
This plugin facilitates and maintains ren	note connections, while also providing command shell access.			
Command	Description			
GeOR (71)	Perform the operations before to models and pencild an EOP assalan. Edit remain dealing services to autorized.			
	Enable remain dealing conventions. Enable consumed (multiple/REF servisors.			
	 After performing the above sellings, shall the remain dealing service (Terrollemine). 			
Dw00 (13)	Download a file-have the specified URL and exite in the specified file-path. Then start the sensite disklop service (TermBerrier).			
6-10 (PR)	Bart the command shall form and. The module can also not one layerly bijeding its code into the process. C(Sindows)Equipm(2) Albest not.			
	C (Windows) System 37 (differed non. • Read data from the command shell and send it to the CS server.			
611.00	If the command shell process is not surviving their shall the command shell (produce) and order the received command data from CE in the command shell.			
Bu21 (23)	 Terrorate the formal is read the command sulput from the command shell console. Thes terrorate the command shell process. 			
The attackers launch the command she	by injecting into the process. The commands below were seen executed by			
the threat actor:				
T an and	THE SECTION SE			
2 not need 2 not intraspress administrators 3 collects system and account collects				
M. (Authority control of a Manage of M. (Authory supported M. (Authory supported				
To				
Alexandrian a remarking to a share ser one through in the natural relation	A resource using critical conductions			
Marmire the information from the				
"Corner a cross standard or car	Mariest Annement of the Committee of the			
28 Trip in the networker/off/nem//co	Mr. Autorit (MacKing)*			
Service Manager This plugin manages system services, in	coluding installing, starting, stopping, deleting and listing there.			
Sal1 (77)	Description • Create Service retries. The module can under the following types of services:			
	 IDEN/CE_VENCE_DIGITE_PROCESS where a process with other services. 			
	INTERVEL WINCO CHIN PROCESS runs inside its own process.			
0+12 (18)	Top and didde the service.			
Da13 (78)	Salasevier			
0x14 (20)	Signaturies.			
Da18 (08)	Enumerale all sensions (judice and inactive) to solled the following information about services the service name, display some and covice status information.			
	name, display name and service status information.			
Network Manager				
This plugin lists the network connection	s in the system.			
Command	Description			
0x10 (00)	Description Online Security and the field of Prick and Prick TCP and IEP connections.			
	• Bale			
	Lossi port Lossi port Famulo address Famulo address			
	Emmir address Emmir pari			
	Osning PD			
Attribution				

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	MOS	Nie Name	Compilation Time	Description
	PRINCIPATIONS CONTINUES AND SOME	midli	Thursday 24.63.2633 05.18.05.UTC	CoughingDown Core Module

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