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On the compression computer, the attackers performed reconsistence using system commends query case, quere case, and notated case and installed a Central Cacher backdoor named Commic Subset day, which gains persistence vis an LNK file in the startup folder. The e and in response receives a pupilsoal (see the <a href="https://doi.org/10.1007/j.j.miles/Agamenton section">https://doi.org/10.1007/j.j.miles/Agamenton section</a>. Central description of the computer west carried or using the public utility <a href="https://doi.org/10.1007/j.j.miles/Agamenton section">https://doi.org/10.1007/j.j.miles/Agamenton section</a>. Central description of the computer west carried or using the public utility <a href="https://doi.org/10.1007/j.j.miles/Agamenton section">https://doi.org/10.1007/j.j.miles/Agamenton section</a>.
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Employment Type: Full Time

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## 3 Traian-Dawnlaader Agamemnan

successful, the malicious mucro extracts the decrypted data to the file 963electia40226ba2edel516464572446 in the directory C:ProgramDatatecgid milb and runs the library with the following parameter

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Agamentons in a legitimate SQLite DLI. Berry with the malicious expected function uplita\_erasin\_functioner. This modification as well as the method of gaining periodence on a compromised computer in the startup folder were described in the report Operating 🗠 😂 Nath Size A deb Offer Turt. Too Good to be Ture.

Computer name;

User name; List of running processes.

ext, the malware compresses the received data using the LZ algorithm with the maximum compression ratio, after which it encrypts the data with its own algorithm and encodes it in Base64. The malware also generates a unique identifier for the infected loss

he collected information is sent to one of the attackers' C2 servers alon ttps://propue(.)jp/ap-context/documents/document.

http://www.stevt.org[.]op/otevt/public/frontend/review.php http://gbflatinamerica[.]com/file/filelist.php

http://goldllamd.saxura.re[.]jg/wsterdo/up/up-content/plugins/view.php https://boutcamp-coders.com[.]edu/-dmcdccald21/emoji-review/storage/app/humor.php

After exacting the data to the C2 errors, the malware reaction a response form is it is contain the main people all also excepted with in own algorithm. It is other executed in the process memory or uploaded to the hard disk at "Viscolapphite"s—DMF[94][8] may (the path is given in Regfure format) and learneded using reaction in reaction and contained by the response of the C2 errors.



Figure 13. Information about network detection

## 4. Trojan-Backdoor CommsCacher

commeCacher is also a logitimate SQL ite DLL library with the mulicious exported function sqlite3\_create\_functiones. Examples of LNK files with CommeCacher autoran parameters are shown below.

dill2.ese CommcCacher.dat,eqlited ovente functiones dhamagementservice19253

CommaCacher downloads and uploads configuration data to the hard disk in the file: Videcalappdate/Scildersity/Service/Account/Store halt. The configuration file is encrypted with the VEST encryption algorithm and contains a list of C2 servers. Example of the configuration of

https://wew.hospitality-partners[.]co.]p/works/performance/consumer.php

Consisting on of the Clarm point water delication for the Clark project data in response that CL The resisted and desired after delication for the Clark project data in response that CL The resisted and desired after delication for the Clark project data in response that CL The resisted and desired after delication for the Clark project data in the clark project delication for the Clark projec

The backdoor functions and its server side were described in detail in the article Operation North Star: Behind The Scenes.

## 3. Logs of victims

During the incident investigation, a transfer of mulicious C2 servers were identified, and, after studying them, the experts managed to obtain log files with the IP addresses of victims also compressional by this group. Log format: [ID = ID][Date] [Vicim IP] [Uner-Agent].

All identified victims were notified of the incidents. Sensitive information has been replaced with astensis (\*).



| Dec | Dec

Figure 15. Example of lines from a victi

the attacker-controlled servers contained files named sclient+[md5 victim]+ tmp or pagefile+[md5 victim]+ dat. These files contained information from compromised computers

## 6. Attribution

The desired addition of compressive being to Lagrangian (large page due have two lifetiles (Con. The proposal no responsing incise 2000 of the contract learned to the contrac

ow is an example of correspondence between one of the victims and an attacker in the Telegram messenger. In this case, the attacker offered the victim to do a test assignment on the attacker-controlled server.



attack the cognization, the attackers created a phinhing site of General Dynamics Mission Systems. As C2 servers, they used the resources of allegedly compromised organizations located in Brazil, France,



Help Make The World A Safer Place

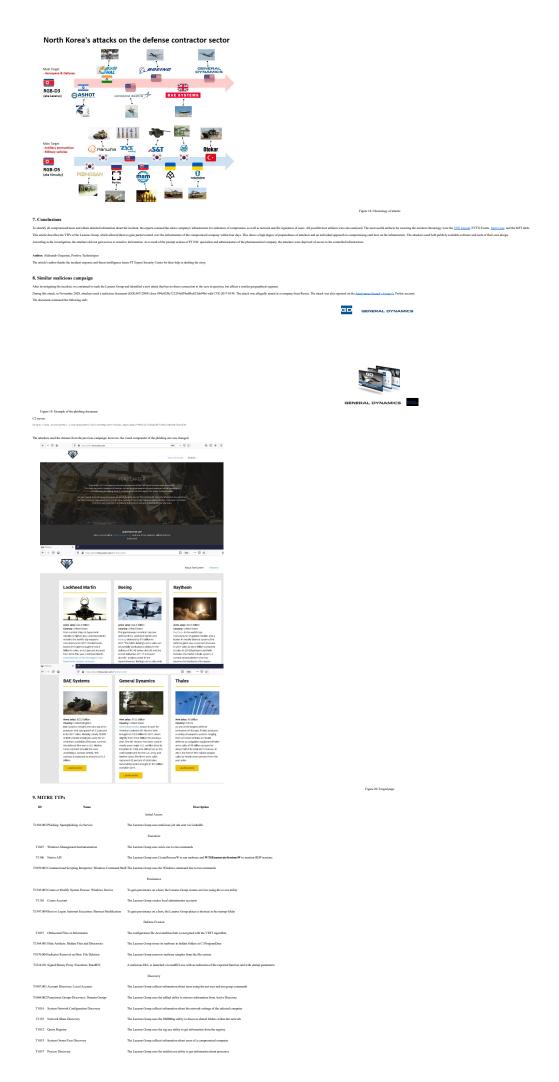
Find Your Next Challenge

Figure 17. Original and fake version of the GDMS w

The group is characterized by the use of unique malicious software for remote command execu

The datased backdoor Commichaber indicates a connection with the milicious company (hum his and identifies the group of stackers as the Lazena Group.

 The descend GEO/2009/99/99/06 de-obtained during the investigation contains a malicious masses, an encrypted profond, and starte parameters that are smoot in Test Box, which coincides with the description of malicious documents that were described in the Medicing report of the control of the Medicing report of the control of the start of



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