

DarkSide's Targeted Ransomware Analysis Report for Critical U.S. Infrastructure

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May 21, 2021

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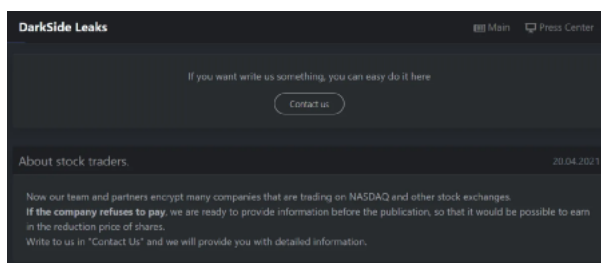
DarkSide Group Background

DarkSide is an emerging RaaS (ransomware as a service) criminal group. The group may be organized by other former branches of ransomware activities. According to the attack rules announced by the group, the group only target The medical, government, education, non-profit organizations, and organizations outside the funeral and interment industry launched blackmail attacks. The ransomware family first appeared in August 2020, up to now, 81 companies have been publicly attacked by the ransomware family.

brookfield.com	XCDAL
mestek.com	OAK VALLEY COMMUNITY BANK
tomwood.com	linvampalley.com
regina.com	http://alecorporation.com
piecmonoplastics.com	amicogroup.com
apstemica.com	dscourtsar.com
diocorcontolosa.com	PKAES,LLC
forbesenergyservices.com	Komori America
archirodon.net	segafredo.com.au
anowtruck.com	FowmesBrothers
gerberlebaksginc.com	CowatesWorks
stuller.com	Home Hardware Stores
WINGYIP	gurodata.com
Klaibehk Townsend & Stockton	GUESS
T.E.D. DDM GMBH	Stone Rigman Walther Wittmann, LLC
colortech.com	Minon Technologies Inc.
LLOYDSHOE	Jacoby and Jacoby
Graves Segura	Schiller DuCanto and Fleck
Cobb Technologies	dvmvlaw.com
WorldPosta	Book and Hatch
IRLE CREUZ GmbH	PROSOLARITIC.de
edgroup.com	TRI CORP
POLIFILM GmbH	jessou.com
INTDESIDE.CO.UK	EsimBank
OMZ System France	PayneFears
STAAE and KOLLEGEN	Swift Real Estate Partners LLC - Finance, Hi, Statment, Internal Information, other
aridien.com	primethealthservices.com
HEUSSEN Rechtsanwaltsgesellschaft mbH	vgoango.de
i-D Foods Corporation	Abby Lisa Holding LLC
OneDigital	Kens Foods Inc.
ISOLVED	Leavitt Group
ECHO-USA	springlakejuno.com
Inter-State Studio	Neo Engineers
ISSA	Cerjman Balin Adler & Hyman
http://wonderbox.fr	JST Global, Acme-Hardisty
Pennelco	Cuddy & Fiebel LLP
copet.com	Condon Ferris
SIERRAMEAT	supabets.co.za
AIDA GLOBAL	psalm.com
[NASDAQ: DVN] thedvngroup.com	Bates & Taylor
	BTU International, Inc.

Related important attacks

On April 20, 2021, the DarkSide group issued an announcement on its dark web site, claiming that it invaded many companies listed on the Nasdaq and other stock exchanges, and encrypted the core data of related companies. If the related companies refuse to pay the ransom, The group is preparing to publish the stolen data and make a profit from the short-selling options of related companies.

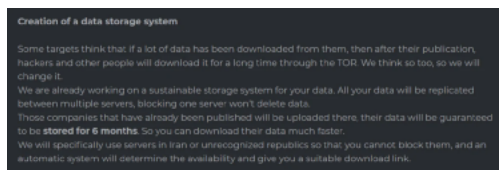


On May 7, 2021, Colonial Pipeline, the largest fuel pipeline provider in the United States, encountered a targeted attack by the DarkSide group, forcing it to shut down the key fuel network that supplies fuel to the densely populated eastern states of the United States.



Technical characteristics of the attack

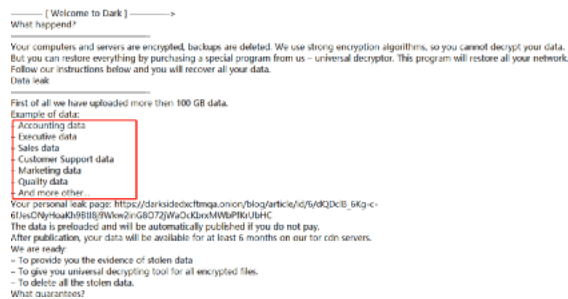
According to the analysis of the historical attack data of the DarkSide group, the attack characteristics of the group are different from other ransomware groups. A large amount of data will be stolen before the ransomware attack is released and installed against related organizations. It also created a distributed storage system in Iran, which is used to store victim data.



The main attack features of the Darkside Group:

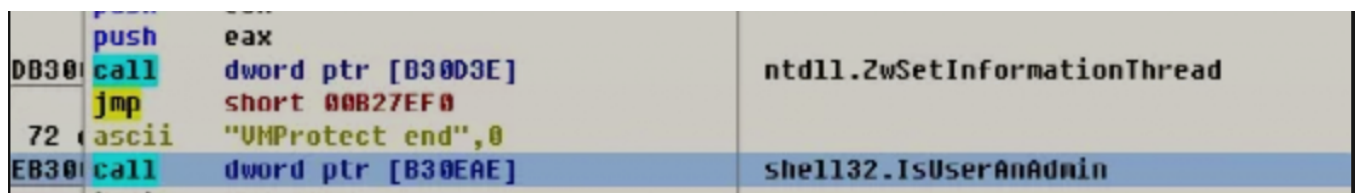
- Ransomware mainly targets Windows systems, but there are also variants for Linux systems;
- Use a large number of penetration testing tools to perform vulnerability scanning and intrusion penetration against the external network systems of relevant organizations;
- After entering the intranet of the relevant organization, it will attack the Windows domain controller in an attempt to control the entire enterprise intranet;
- The core data of the stolen organization will be uploaded to the private cloud distributed storage system;
- After controlling the core assets of the organization, the installation of the ransomware attack was finally carried out.

Darkside's extortion notice is tailored specifically for companies, and will specifically target companies' accounting data, execution data, sales data, customer support data, marketing data, and other core value data for stealing and extorting attacks.



Core Ransomware Analysis

The DarkSide ransomware virus will check to see if the current user is an administrator when it is first launched:



After starting to run, an icon will be released in the AppData\Local directory as the icon of the encrypted file. At the same time, the file name of the icon is also the file suffix added after the ransomware encrypted file (each sample is different, the current sample is ".82a71c82")

Group association traceability analysis

DarkSide group members once posted DarkSide-related ransomware information on well-known Russian forums.



The ransomware virus will determine the default language of the system. If it is a Russian language, it will not encrypt system files.



Judging from the comprehensive technical characteristics and historical activities, the gang is a typical RaaS (Extortion as a Service) criminal gang, and a large number of Russian-speaking personnel are suspected.

Security Advices to Enterprise Customers

The processing flow after the ransomware attack is discovered:

1. If an infected machine is found, its network and the computer should be shut down immediately. Closing the network can prevent the ransomware from spreading laterally on the intranet, and shutting down the computer can prevent the ransomware from continuing to encrypt files in time;
2. Contact security vendor to investigate and deal with the internal network;
3. The passwords of all machines in the company should be changed. You cannot be sure how many passwords of the machines inside the company are mastered by the hacker.

Protective measures after being attacked by ransomware:

1. Contact the security vendor to investigate and deal with the internal network;
2. The login password should be of sufficient length and complexity, and the login password should be changed regularly;
3. The shared folder of important information should be set to access permission control and be backed up regularly;
4. Regularly detect security vulnerabilities in the system and software, and apply patches in time;
5. The login password should be of sufficient length and complexity, and the login password should be changed regularly;
6. The shared folder of important information should be set to access permission control and be backed up regularly;
7. Regularly detect security vulnerabilities in the system and software, and apply patches in time.

The screenshot displays the 360 Total Security application window. The top-left corner features the logo and the text "360 TOTAL SECURITY". A notification bar at the top right contains a crown icon, the text "Upgrade Now, -50%", and several utility icons. The main interface is divided into a left sidebar and a main content area. The sidebar includes a shield icon with a lightning bolt, the text "Protection: On", and menu items for "Full Check", "Virus Scan", "Speedup", "Cleanup", "Tool Box", and "Account". The main content area has a blue header with a warning icon, the text "Found 1 item(s) to be resolved", and buttons for "Resolve" and "Skip". Below this, a section titled "High-risk items" shows a list with one entry: "C:\Users\ms\AppData\Local\Temp\Homie.exe" with a detection signature "Win32/Ransom.Ge...". At the bottom of the interface, there are links for "Select All", "Select None", and "Report False Positives/Suspicious files".

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