

POST-INCIDENT REPORT

# A customer's perspective: Ransomware Post-Incident Report



ARTIFICIAL INTELLIGENCE

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### **Vectra® protects business by detecting and stopping cyberattacks.**

Vectra is the leader in Security AI-driven hybrid cloud threat detection and response. The Vectra platform and MDR services provide attack coverage across public cloud, SaaS, identity and network infrastructure. Unlike traditional threat detection approaches that simply alert on what is “different”, Vectra’s Attack Signal Intelligence™ detects and correlates attacker behaviors - the TTPs at the heart of all attacks. The resulting alert signal clarity enables security operations teams to rapidly prioritize, investigate and respond to the most urgent cyber-attacks and stop them from becoming breaches. Organizations worldwide rely on the Vectra platform and MDR services to get ahead and stay ahead of attackers. For more information, visit [www.vectra.ai](http://www.vectra.ai).

### **Vectra customer: Pharmaceutical company**

## **Executive summary**

This post-incident report from a Vectra® pharmaceutical customer\* shows step by step how the Vectra threat detection and response platform identified early indicators of a ransomware attack and prevented the encryption of network file shares.

Vectra has been authorized to publish this post-incident report by ensuring anonymity and protecting the customer's private data. This type of report is ordinarily kept confidential for internal analysis only.

Inside the compromised network on Day 1 – one week prior to the intended ransomware detonation – the Vectra Consulting Analyst Team detected unmistakable reconnaissance and lateral movement attack behaviors.

These phases of the attack lifecycle indicated the attacker was looking for critical systems to compromise before encrypting network file shares for ransom. Vectra showed that scans came from wide range of hosts and other scans were related to ransomware activities as network file shares were enumerated.

Uncovering additional evidence, Vectra observed that one compromised host was communicating with a known malicious IP address in Ukraine that has been associated with Sodinokibi malware. External connections were performed successfully to a Ukraine IP address with a data transfer of about 80 MB.

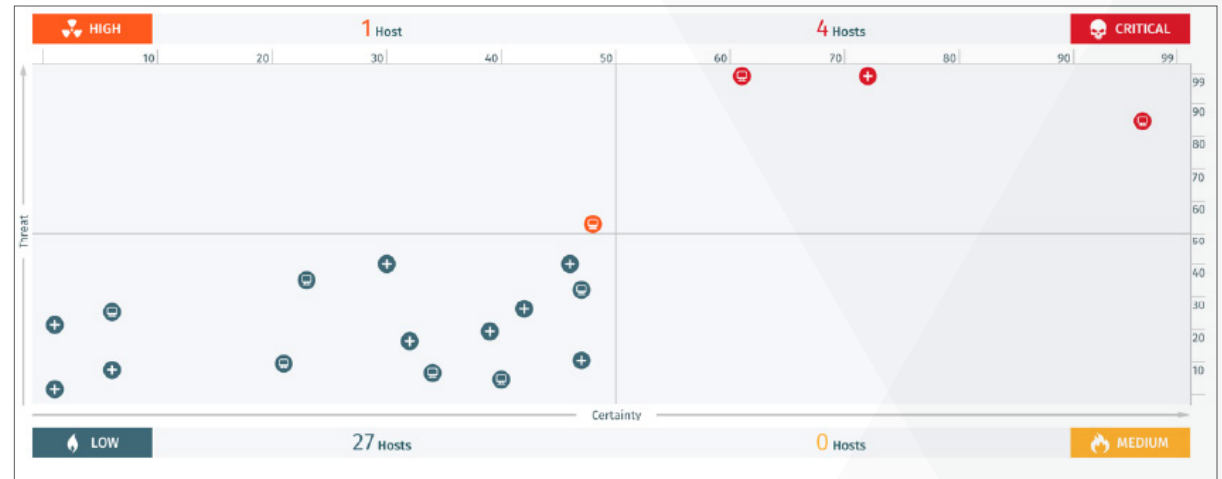
The number of detections identified by Vectra was concerning due to the sheer volume of data that was being sent to the outside. Additional information from the customer linked the attack to Maze ransomware.

This post-incident report shows the importance of early cyberattack detection to avert damage and catastrophic data breaches. With certainty and precision, it is vital to identify precursor behaviors, swiftly investigate incidents, and arm yourself with the appropriate response tools.

\*The customer's name has been withheld for privacy reasons. All detection screen images in this report were provided by the customer and have been obscured to protect privacy.

## General analysis

After the attack, the Vectra TDR platform showed four hosts in the *Critical* quadrant, one in the *High* quadrant, and several hosts in the *Low* quadrant. Three of the four Critical hosts were confirmed infected:



Host Dashboard on YY

Vectra can clearly see the type of actions executed prior to the ransomware attack on the detection's timeline.

The first spike in the chart occurred six days before the attack. The second spike shows the actual encryption.



Detection chart on YY

The attacker used a legitimate but compromised user account to move laterally and enumerate file shares on a wide range of hosts.

Expand All   Collapse All										
<input type="checkbox"/>	CATEGORY	TYPE	HOST	ACCOUNT	THREAT	CERTAINTY	FIRST SEEN	LAST SEEN	▼	
<input type="checkbox"/>	▼ Lateral	Suspicious Remote Execution	[REDACTED]	—	20	95	[REDACTED]	00:32	[REDACTED] 00:32	[Icons]
Accounts		[REDACTED]	Targets		[REDACTED]					
Internal Targets		1	IP When Detected		[REDACTED]					
Suspicious Sessions		1								
Executed Functions		1								
Search Matched		[REDACTED]								
<input type="checkbox"/>	▼ Recon	File Share Enumeration	[REDACTED]	—	48	62	[REDACTED]	20:20	[REDACTED] 23:42	[Icons]
Internal target IPs		[REDACTED]	Targets		[REDACTED]					
Number of Accounts		1	IP When Detected		[REDACTED]					
Shares		admin\$, ipc\$								
Common Shares		admin\$, ipc\$								
Search Matched		grouped_details.accounts: [REDACTED]								
<input type="checkbox"/>	▼ Recon	File Share Enumeration	[REDACTED]	—	57	50	[REDACTED]	21:53	[REDACTED] 22:19	[Icons]
Internal Target IPs		[REDACTED]	Targets		[REDACTED]					
Number of Accounts		1	IP When Detected		[REDACTED]					
Shares		admin\$, ipc\$								
Common Shares		admin\$, ipc\$								
Search Matched		grouped_details.accounts: [REDACTED]								

Suspicious remote execution using a customer account

The first traces of lateral movement using this account were observed one week prior to the ransomware detonation. All lateral movement observed was done via the StartServiceW function, which is usually observed when PsExec is used.

The full timeline of detections over the period is available in the appendix of this document.

Expand All   Collapse All										
<input type="checkbox"/>	CATEGORY	TYPE	HOST	ACCOUNT	THREAT	CERTAINTY	FIRST SEEN	LAST SEEN	▼	
<input type="checkbox"/>	▶ Lateral	Suspicious Remote Execution	[REDACTED]	—	20	95	[REDACTED]	[REDACTED]	[REDACTED]	[Icons]
<input type="checkbox"/>	▶ Recon	File Share Enumeration	[REDACTED]	—	48	62	[REDACTED]	[REDACTED]	[REDACTED]	[Icons]
<input type="checkbox"/>	▶ Recon	File Share Enumeration	[REDACTED]	—	57	50	[REDACTED]	[REDACTED]	[REDACTED]	[Icons]
<input type="checkbox"/>	▶ Lateral	Suspicious Remote Execution	[REDACTED]	—	62	95	[REDACTED]	[REDACTED]	[REDACTED]	[Icons]
<input type="checkbox"/>	▶ Lateral	Suspicious Remote Execution	[REDACTED]	—	70	95	[REDACTED]	[REDACTED]	[REDACTED]	[Icons]
<input type="checkbox"/>	▶ Lateral	Suspicious Remote Execution	[REDACTED]	—	20	95	[REDACTED]	[REDACTED]	[REDACTED]	[Icons]
<input type="checkbox"/>	▶ Lateral	Suspicious Remote Execution	[REDACTED]	—	62	95	[REDACTED]	[REDACTED]	[REDACTED]	[Icons]
<input type="checkbox"/>	▶ Lateral	Suspicious Remote Execution	[REDACTED]	—	20	95	[REDACTED]	[REDACTED]	[REDACTED]	[Icons]

All detections involved in the customer account

## Other events

Some suspicious RDP detections occurred at the time of the attack, but they might be legitimate.

Vectra recommended validation at this point (connection from XXXX to YYYY):

The screenshot displays two sections of a security console. The first section, titled 'Unusual keyboards for this RDP Client Token used with server', includes a list of events with icons for clock, user, and device. A red keyboard icon with a warning sign is next to the text 'Unusual keyboard layout: French - 1036'. Below this, a keyboard icon is next to the text 'Normal keyboard layouts for this RDP Client Token between:'. A white box contains the text 'encrypted RDP keyboard'. The second section, titled 'Unusual product ID for this RDP Client Token used with server', also includes a list of events with icons. A red keyboard icon with a warning sign is next to the text 'Unusual product ID: e23ded95-1419-4049-9780-fa49ea3'. Below this, a keyboard icon is next to the text 'Normal product IDs for this RDP Client Token between:'. A white box contains the text 'encrypted\_RDP\_productID'.

## External communications

One of the infected hosts was observed communicating with a known malicious IP address in Ukraine that has been associated with Sodinokibi malware.

Communication occurred through Port tcp:53.

These detections are concerning due to the amount of data sent to the outside.

After gaining more information from the Vectra customer, the attack appears to be related to Maze ransomware.

Maze is manually operated. The external Ukraine IP, despite its association with another malware family, may still have been used for command-and-control communications and data exfiltration.

Vectra recommended analyzing communications with this external host, if possible.

CATEGORY	TYPE	THREAT	CERTAINTY	FIRST SEEN	LAST SEEN	
▼ C&C	Suspicious Relay	33	95			
Internal Target Hosts				Targets		
External CNC Servers				IP When Detected		
Bytes Sent	58.8 MB					
Bytes Received	24.2 MB					
▼ C&C	External Remote Access	70	10			
External Hosts				Bytes Sent	30 MB	
Unique Ports	1			Bytes Received	4.6 MB	
Sessions	1			Targets		
Active Time	1:33:49			IP When Detected		
▼ Lateral	Suspicious Remote Exec...	20	95			
Accounts				Targets		
Internal Targets	1			IP When Detected		
Suspicious Sessions	1					
Executed Functions	1					

Communication to external IP address

EXTERNAL HOST	PORT	BYTES SENT	BYTES RECEIVED	FIRST SEEN	LAST SEEN	
	tcp:53	30.0 MB	4.6 MB			
INTERNAL TARGET HOST	EXTERNAL C&C SERVER	EXTERNAL PORT	BYTES SENT	BYTES RECEIVED	FIRST SEEN	LAST SEEN
		tcp:53	30.0 MB	4.8 MB		
		tcp:53	28.7 MB	19.4 MB		

Suspicious relay detection on DNS

## Ransomware analysis

Ransomware detonation occurred on one host (IP-X.X.X.X.):

The screenshot displays a security dashboard for a specific host. At the top, it shows a threat level of 82 and a certainty of 95. The interface includes a navigation bar with options like Actions, Group, Tag, Note, Assign, and Share. The main content is divided into two panels: Host Information on the left and Detections/Details on the right. The Detections panel features a timeline graph showing activity from August 12 to August 19, with a significant spike on August 17. Below the graph is a table of detections with columns for Category, Type, Threat, Certainty, First Seen, and Last Seen.

CATEGORY	TYPE	THREAT	CERTAINTY	FIRST SEEN	LAST SEEN
Lateral	Ransomware File Acti...	88	95		
Recon	File Share Enumerati...	48	62		
Lateral	Suspicious Remote E...	70	95		

Host view and detection associated

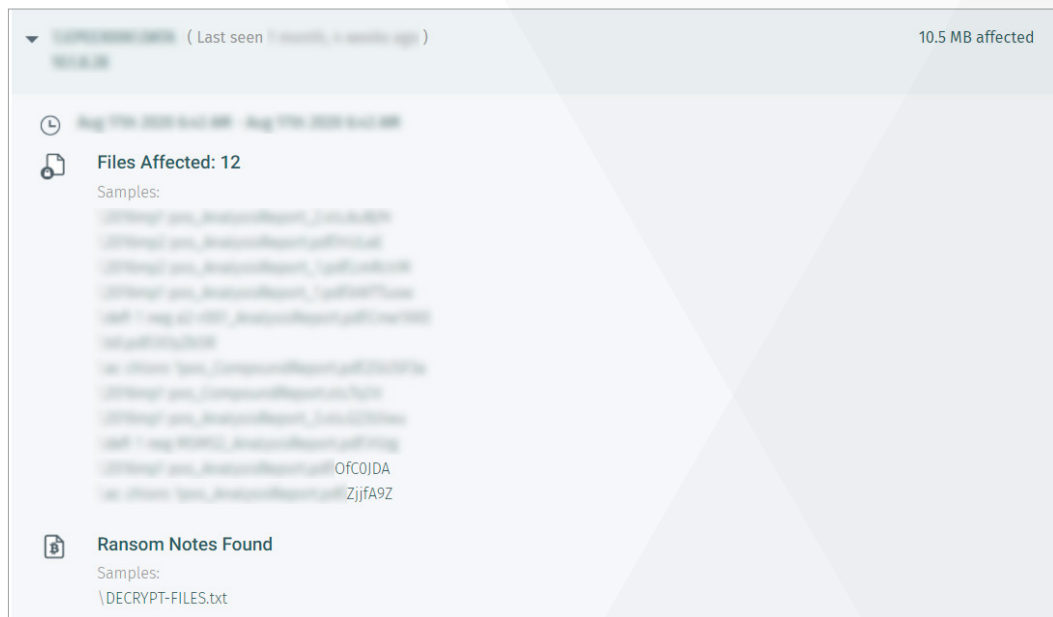
This host showed several lateral movement and reconnaissance steps prior to the ransomware attack.

The screenshot shows the 'Recent Activity' section of the security dashboard. It lists three recent events, each with a category, a description, and the amount of data affected. The events are: 'Lateral' (10.5 MB affected), 'Recon' (616.1 KB affected), and 'Lateral' (3.7 MB affected). Each event is marked as having been last seen 1 day, 2 hours ago.

CATEGORY	DESCRIPTION	DATA AFFECTED
Lateral	( Last seen 1 day, 2 hours ago )	10.5 MB affected
Recon	( Last seen 1 day, 2 hours ago )	616.1 KB affected
Lateral	( Last seen 1 day, 2 hours ago )	3.7 MB affected

Ransomware detection

Detection details – extension and ransom note title – are compatible with Maze ransomware. The ransomware also had an embedded function to hit several of the known Maze command-and-control machines. These should be monitored for access to evaluate potential data leaks.



Detection details

## Binary analysis

The customer provided Vectra with the binaries used during the attack and performed a quick binary analysis of the malicious DLL.

### Sample (SHA256):

(redacted)

### Analysis environment:

Windows7 SP1 VM, running on VMWare Workstation 15 Pro.

## Configuration extraction

The ransomware configuration was extracted from memory during the execution and provided known Maze command-and-control information embedded in the binary:

- |                 |                 |                 |
|-----------------|-----------------|-----------------|
| • 91.218.114.4  | • 91.218.114.26 | • 91.218.114.38 |
| • 91.218.114.11 | • 91.218.114.31 | • 91.218.114.77 |
| • 91.218.114.25 | • 91.218.114.32 | • 91.218.114.79 |
|                 | • 91.218.114.37 |                 |



## Killswitch

Further analysis revealed a killswitch in the sample used by the attacker. The malware will not encrypt files if the file « C:\random\insulting\path.txt » exists. As a result, Vectra recommended deploying it on all machines, despite its name.

This killswitch can be found in theDllRegisterServer function when the DLL is disassembled, as shown below (pseudocode is given here for better readability).

This killswitch acts as follows:

- The ransomware looks for a specific file existence: C:\random\insulting\path.txt (REDACTED)
- If it exists, it writes in it a famous actor's quote: (REDACTED)
- Once this is done, it stops its execution without encrypting anything

```

5  DWORD NumberOfBytesToWrite; // [esp+80h] [ebp-2Ch] BYTEF
6  void *Block; // [esp+90h] [ebp-36h]
7  int v5; // [esp+94h] [ebp-32h]
8  char *v6; // [esp+98h] [ebp-2Eh]
9  _WORD *v7; // [esp+9Ch] [ebp-2Ah]
10 HANDLE hFile; // [esp+9Eh] [ebp-28h]
11 const char *v9; // [esp+10h] [ebp-Ch]
12 int v10; // [esp+14h] [ebp-8h]
13
14 hFile = CreateFileW(L 0x4000000u, 0, 0, 3u, 0, 0);
15
16 if ( hFile == (HANDLE) -1 )
17 {
18     -v10 - (int)operator new(0x100u);
19     if ( v10 )
20     {
21         sub_10009920(v10, 452);
22         sub_10001000(v10, 255, 128);
23         sub_10004F10(v10);
24         v5 = 374273;
25         v7 = VirtualAlloc(0, 0x58602u, 0x3000u, 0x40u);
26         if ( v7 )
27         {
28             sub_10008FA0(1, (_DWORD *)v10, byte_1001F9E8, v7, 0x58600u);
29             sub_10009720(v7);
30             Sleep(0xFFFFFFF);
31         }
32         Block = (void *)v10;
33         _free((void *)v10);
34     }
35     result = 0;
36 }
37 else
38 {
39     strcpy(
40         Buffer,
41
42         v9 = Buffer;
43         v8 = &Buffer[1];
44         v9 += strlen(v9);
45         NumberOfBytesToWrite = ++v9 - &Buffer[1];
46         WriteFile(hFile, Buffer, v9 - &Buffer[1], &NumberOfBytesWritten, 0);
47         CloseHandle(hFile);
48         result = 0;
49     }
50     return result;
51 }
    
```

Killswitch call in DLL

These functions are common. It helps malware developers to debug their own ransomware without harming themselves. For example, a language killswitch prevents certain countries being hit by the ransomware.

Vectra recommended creating this file as an empty text file, despite its offensive name, on all users' computers and servers to avoid further damage in case of an incomplete cleanup.

Vectra also recommended monitoring the use of the regsvr32 command, if possible, because it was used to launch the ransomware. Local and firewall logs should complete the elements present in this investigation.

If possible, access to this file should be monitored to identify other potentially infected hosts.

## Appendix - Timeline of attack and compromised hosts

Vectra detection	Associated attacker behavior	dest_hosts	comments	MITRE ATT&CK mapping
<b>Port sweep</b> (reconnaissance)	<ul style="list-style-type: none"> <li>Infected internal system contacts several internal IP addresses on a few ports to find systems that run certain software that might be vulnerable to an attack</li> </ul>	N/A	Ping scan	<ul style="list-style-type: none"> <li>T1082 System Information Discovery</li> <li>T1018 Remote System Discovery</li> <li>T1072 Third Party Software</li> <li>T1046 Network Service Scanning</li> <li>T1016 System Network Configuration Discovery</li> </ul>
<b>Automated replication</b> (lateral movement)	<ul style="list-style-type: none"> <li>Compromised host that is part of a botnet tries to expand the botnet's footprint by infecting other hosts</li> <li>Infected host taking part in a targeted attack spreads laterally to get closer to data it wants to exfiltrate</li> </ul>	6 hosts	Host trying to access file shares on port 445, might be unrelated to the attack	<ul style="list-style-type: none"> <li>T1072 Software Deployment Tools</li> <li>T1210 Exploitation of Remote Services</li> </ul>
<b>Automated replication</b> (lateral movement)	<ul style="list-style-type: none"> <li>Compromised host that is part of a botnet tries to expand the botnet's footprint by infecting other hosts</li> <li>Infected host taking part in targeted attack spreads laterally to get closer to data it wants to exfiltrate</li> </ul>	6 hosts	Host trying to access file shares on port 445, might be unrelated to the attack	<ul style="list-style-type: none"> <li>T1072 Software Deployment Tools</li> <li>T1210 Exploitation of Remote Services</li> </ul>
<b>Suspicious remote execution</b> (lateral movement)	<ul style="list-style-type: none"> <li>Infected host, a malicious insider or a red team participant who is in control of the host is trying to spread laterally by executing code on systems to which it has connected</li> </ul>	1 host	Customer account used	<ul style="list-style-type: none"> <li>T1569 System Services</li> <li>T1021 Remote Services</li> <li>T1047 Windows Management Instrumentation</li> <li>T1053 Scheduled Task/Job</li> <li>T1078 Valid Accounts</li> <li>T1570 Lateral Tool Transfer</li> <li>T1571 Non-Standard Port</li> <li>T1572 Protocol Tunneling</li> </ul>
<b>Suspicious remote execution</b> (lateral movement)	<ul style="list-style-type: none"> <li>Infected host, malicious insider or red team participant controls a host to spread laterally by executing code on systems to which it has connected</li> </ul>	3 hosts	Customer account used	<ul style="list-style-type: none"> <li>T1569 System Services</li> <li>T1021 Remote Services</li> <li>T1047 Windows Management Instrumentation</li> <li>T1053 Scheduled Task/Job</li> <li>T1078 Valid Accounts</li> <li>T1570 Lateral Tool Transfer</li> <li>T1571 Non-Standard Port</li> <li>T1572 Protocol Tunneling</li> </ul>

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<b>Port sweep</b> (reconnaissance)	<ul style="list-style-type: none"> <li>Infected internal system contacts several internal IP addresses on a few ports to find systems that run certain software that might be vulnerable to an attack</li> </ul>	N/A	Port sweep on port 3389	<ul style="list-style-type: none"> <li>T1082 System Information Discovery</li> <li>T1018 Remote System Discovery</li> <li>T1072 Third Party Software</li> <li>T1046 Network Service Scanning</li> <li>T1016 System Network Configuration Discovery</li> </ul>
<b>Automated replication</b> (lateral movement)	<ul style="list-style-type: none"> <li>Compromised host that is part of a botnet tries to expand the botnet's footprint by infecting other hosts</li> <li>Infected host taking part in a targeted attack spreads laterally to get closer to data it wants to exfiltrate</li> </ul>	5 hosts	Host trying to access file shares on port 445, might be unrelated to the attack	<ul style="list-style-type: none"> <li>T1072 Software Deployment Tools</li> <li>T1210 Exploitation of Remote Services</li> </ul>
<b>Suspicious remote execution</b> (lateral movement)	<ul style="list-style-type: none"> <li>Infected host, malicious insider or red team participant controls a host to spread laterally by executing code on systems to which it has connected</li> </ul>	5 hosts	Customer account used	<ul style="list-style-type: none"> <li>T1569 System Services</li> <li>T1021 Remote Services</li> <li>T1047 Windows Management Instrumentation</li> <li>T1053 Scheduled Task/Job</li> <li>T1078 Valid Accounts</li> <li>T1570 Lateral Tool Transfer</li> <li>T1571 Non-Standard Port</li> <li>T1572 Protocol Tunneling</li> </ul>
<b>File share enumeration</b> (reconnaissance)	<ul style="list-style-type: none"> <li>Attacker looks for data to exfiltrate or files that provide additional information to achieving attack goals</li> </ul>	30-40 hosts	Customer account used	<ul style="list-style-type: none"> <li>T1039 Data from Network Shared Drive</li> <li>T1119 Automated Collection</li> <li>T1135 Network Share Discovery</li> </ul>

Vectra detection	Associated attacker behavior	dest_hosts	comments	MITRE ATT&CK mapping
<b>Suspicious remote execution</b> (lateral movement)	<ul style="list-style-type: none"> <li>Infected host, malicious insider or red team participant controls a host to spread laterally by executing code on systems to which it has connected</li> </ul>	3 hosts	Customer account used	<ul style="list-style-type: none"> <li>T1569 System Services</li> <li>T1021 Remote Services</li> <li>T1047 Windows Management Instrumentation</li> <li>T1053 Scheduled Task/Job</li> <li>T1078 Valid Accounts</li> <li>T1570 Lateral Tool Transfer</li> <li>T1571 Non-Standard Port</li> <li>T1572 Protocol Tunneling</li> </ul>
<b>File share enumeration</b> (reconnaissance)	<ul style="list-style-type: none"> <li>Attacker looks for data to exfiltrate or files that provide additional information to achieving attack goals</li> </ul>	About 30 hosts	Customer account used	<ul style="list-style-type: none"> <li>T1039 Data from Network Shared Drive</li> <li>T1119 Automated Collection</li> <li>T1135 Network Share Discovery</li> </ul>
<b>External remote access</b> (command and control)	<ul style="list-style-type: none"> <li>Host includes malware with remote access capability (e.g. Meterpreter, Poison Ivy) connects to command-and-control server and receives commands from a human operator</li> </ul>	External Ukrainian IP address	External Ukrainian IP address	<ul style="list-style-type: none"> <li>T1005 Data from Local System</li> <li>T1115 Clipboard Data</li> <li>T1071 Application Layer Protocol</li> <li>T1125 Video Capture</li> <li>T1090 Proxy</li> <li>T1113 Screen Capture</li> <li>T1010 Application Window Discovery</li> <li>T1037 Boot or Logon Initialization Scripts</li> <li>T1111 Two-Factor Authentication Interception</li> <li>T1572 Protocol Tunneling</li> <li>T1573 Encrypted Channel</li> <li>T1048 Exfiltration Over Alternative Protocol</li> <li>T1204 User Execution</li> <li>T1056 Input Capture</li> <li>T1001 Data Obfuscation</li> <li>T1571 Non-Standard Port</li> <li>T1059 Command and Scripting Interpreter</li> <li>T1518 Software Discovery</li> <li>T1176 Browser Extensions</li> <li>T1123 Audio Capture</li> <li>T1008 Fallback Channels</li> <li>T1219 Remote Access Software</li> <li>T1105 Ingress Tool Transfer</li> <li>T1133 External Remote Services</li> <li>T1095 Non-Application Layer Protocol</li> <li>T1132 Data Encoding</li> </ul>

Vectra detection	Associated attacker behavior	dest_hosts	comments	MITRE ATT&CK mapping
<b>Suspicious relay</b> (command and control)	<ul style="list-style-type: none"> <li>Compromised host relays information to and from a host deeper inside the network</li> </ul>	Internal IP -> external Ukrainian IP address	External Ukrainian IP address	<ul style="list-style-type: none"> <li>T1090 Proxy</li> <li>T1104 Multi-Stage Channels</li> </ul>
<b>Suspicious remote execution</b> (lateral movement)	<ul style="list-style-type: none"> <li>Infected host, malicious insider or red team participant controls a host to spread laterally by executing code on systems to which it has connected</li> </ul>	1 host	Customer account used	<ul style="list-style-type: none"> <li>T1569 System Services</li> <li>T1021 Remote Services</li> <li>T1047 Windows Management Instrumentation</li> <li>T1053 Scheduled Task/Job</li> <li>T1078 Valid Accounts</li> <li>T1570 Lateral Tool Transfer</li> <li>T1571 Non-Standard Port</li> <li>T1572 Protocol Tunneling</li> </ul>
<b>Ransomware file activity</b> (lateral movement)	<ul style="list-style-type: none"> <li>Internal host is infected with a variant of ransomware</li> </ul>	3 file servers targeted	N/A	<ul style="list-style-type: none"> <li>T1486 Data Encrypted for Impact</li> </ul>
<b>Automated replication</b> (lateral movement)	<ul style="list-style-type: none"> <li>Compromised host that is part of a botnet tries to expand the botnet's footprint by infecting other hosts</li> <li>Infected host taking part in a targeted attack spreads laterally to get closer to data it wants to exfiltrate</li> </ul>	5 hosts	Host tries to access file shares on Port 445, might be unrelated to the attack	<ul style="list-style-type: none"> <li>T1072 Software Deployment Tools</li> <li>T1210 Exploitation of Remote Services</li> </ul>
<b>Suspicious remote desktop</b> (lateral movement)	<ul style="list-style-type: none"> <li>External foreign attacker takes control of an internal host and uses its unusual keyboard layout to connect to RDP servers and move laterally</li> <li>External attacker takes control of an internal host and uses its own RDP stack to connect to internal RDP servers and move laterally</li> </ul>	1 host	Client token: link.  Might be unrelated to the attack	<ul style="list-style-type: none"> <li>T1003 OS Credential Dumping</li> <li>T1078 Valid Accounts</li> <li>T1212 Exploitation for Credential Access</li> <li>T1552 Unsecure Credentials</li> <li>T1555 Credentials from Password Stores</li> <li>T1021 Remote Services</li> </ul>

For more information please contact a service representative at [info@vectra.ai](mailto:info@vectra.ai).

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