

Cerulean Shield Cyber Incident Report

Date: 9/14/2023 Name of individual completing this form:

■ MEDIUM

Tracking

number: CS23-00001

✓ HIGH

Incident Priority

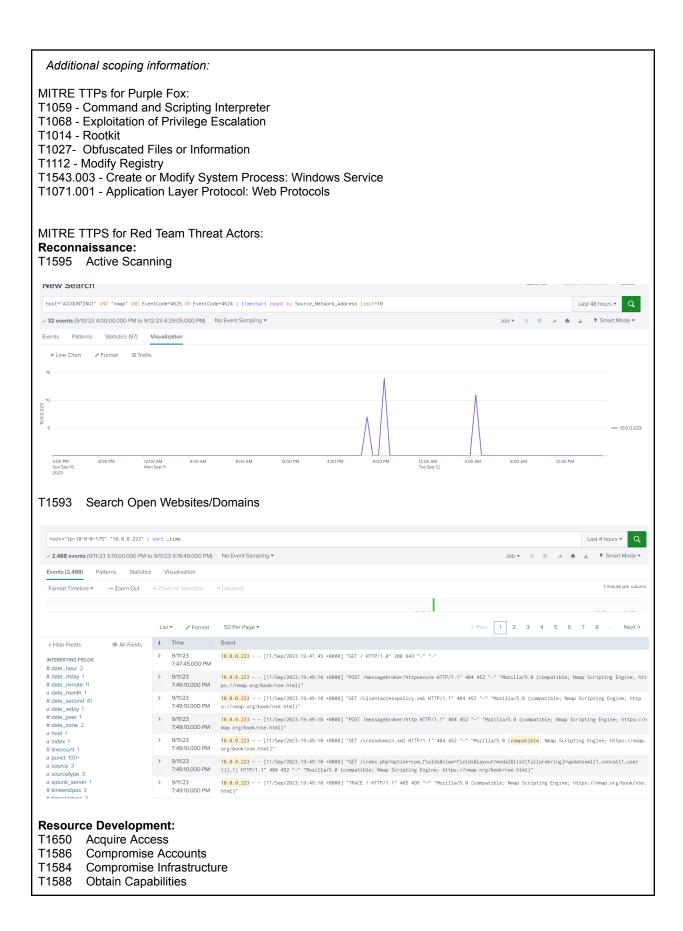
Additional notes:		
Chack all that apply	Incid	lent Type
Check all that apply.		□ Loct Favinment/Theft
X Compromised System X Compromised User Credentials	(o. a	☐ Lost Equipment/Theft ☐ Physical Break-in
lost password)	(e.g.,	Social Engineering (e.g., Phishing)
X Network Attack (e.g., DoS)		Law Enforcement Request
X Malware (e.g., virus, worm, Tro	ian)	Policy Violation (e.g., acceptable use)
X Reconnaissance (e.g., scannin	• •	Unknown/Other (Please describe below.)
exfiltrated data. The attack render	red one system non-	operational.
Please provide as much detail as po		nt Timeline
☐ Date and time when the incident was discovered	Monday, September 11 2023 @ 1000 (PST)	
☐ Date and time when the incident was reported	09-11-2023 13:18:20	
Date and time when the incident occurred	09-11-2023 13:18:20	

Additional timeline details: The Metasploitable instance was attacked in a 2-hour window starting at 1000 11 SEP 2023 while the instance used a public IP address to download security tools from the internet. Evidence suggests that the metasploitable instance was targeted by the Purple Fox criminal threat group from India.

A separate group of Threat Actors accessed the SimCorp AWS VPC using stolen corporate VPN credentials starting at 12:00 PM PST, 11 SEP . The threat actors attacked the metasploitable3, Accounting1, Web1, and Risk Analyst1 instances with various TTPs. At 12:00 13 SEP, threat actors expanded their attack to include the CFO-Laptop, Accounting2, and Data Analytics Server instances.

Incident Scope

Please provide as much detail as possible.		
■ Estimated quantity of systems affected	system rendered non-operational (Metasploitable EC2 instance). 4 systems with IOCs: - Accounting1 and Accounting2 - successful spoofed logons and creation of new accounts. Accounting1 had potential for remote execution through mimikatz. - Web1 - successful injection attack resulting in exposed data and credential hashes. - Risk-Analyst1 - successful spoofed logins and new accounts creations -	
☐ Estimated quantity of users affected	~ 12 Users	
Third parties involved or affected (e.g., vendors, contractors, partners)	SimpCorps financial services clients	



Threats found Start the recommended actions

HackTool:Win32/LSADump!dha

Alert level: High Status: Active

Date: 9/13/2023 12:58 PM

Category: Tool

Details: This program has potentially unwanted behavior.

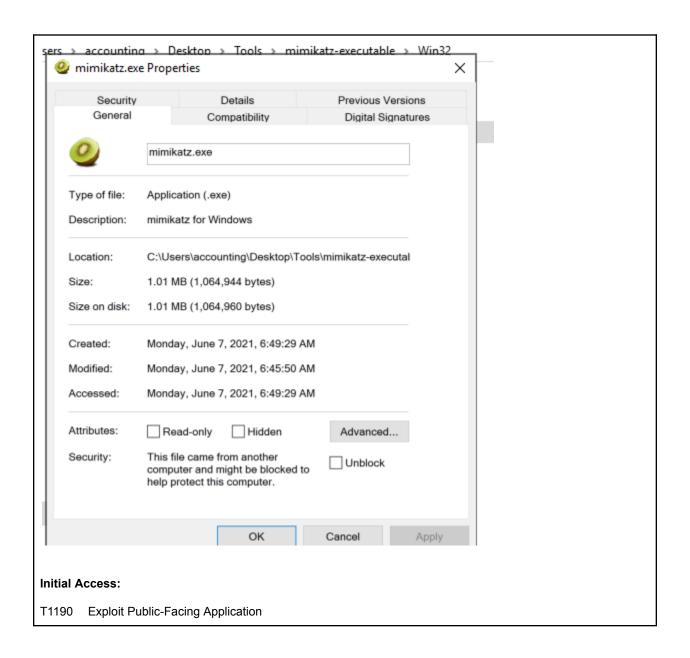
Learn more

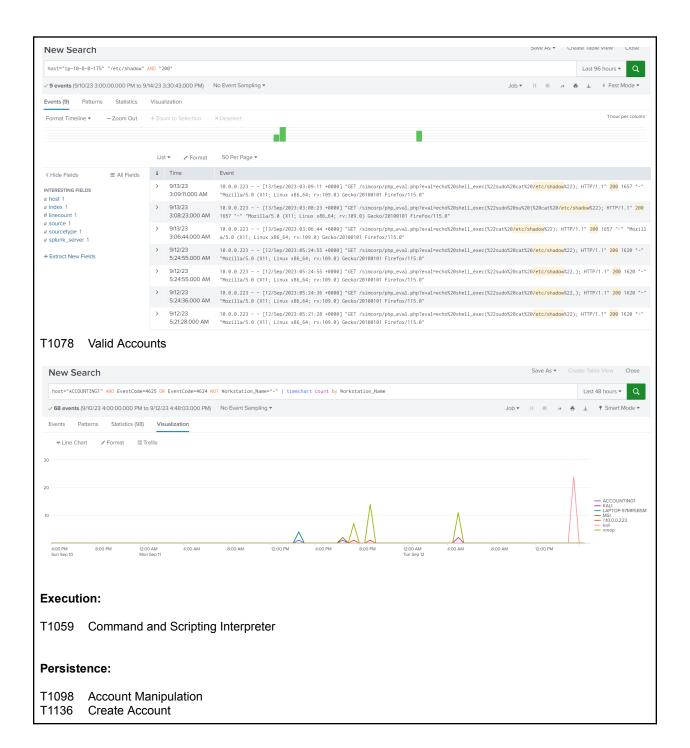
Affected items:

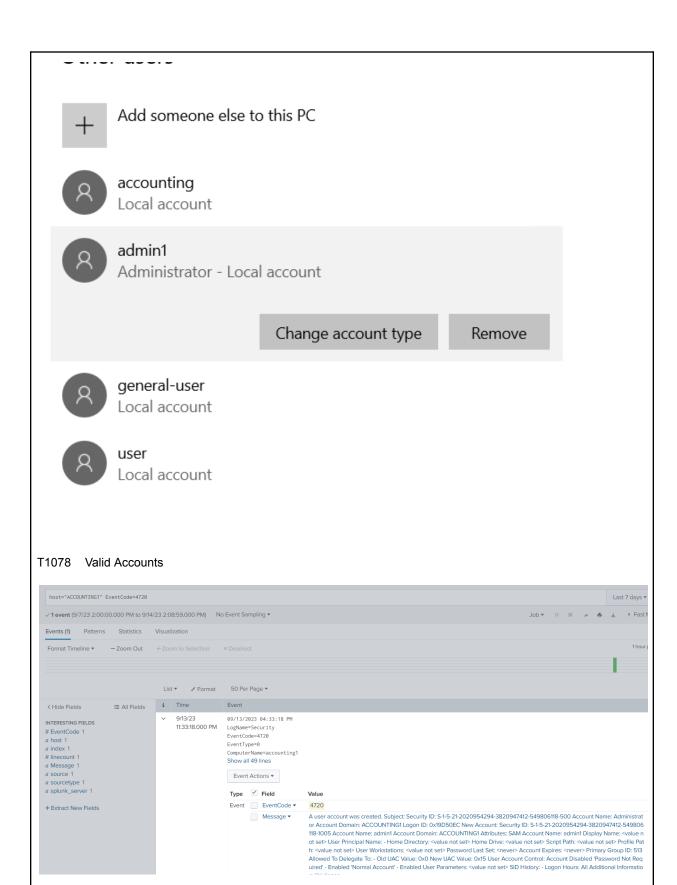
file: C:\Users\accounting\Desktop\Tools\mimikatz-executable \Win32\mimikatz.exe

 $file: C:\Users\general-user\Desktop\Tools\mimikatz-executable \\ \Win32\mimikatz.exe$

OK



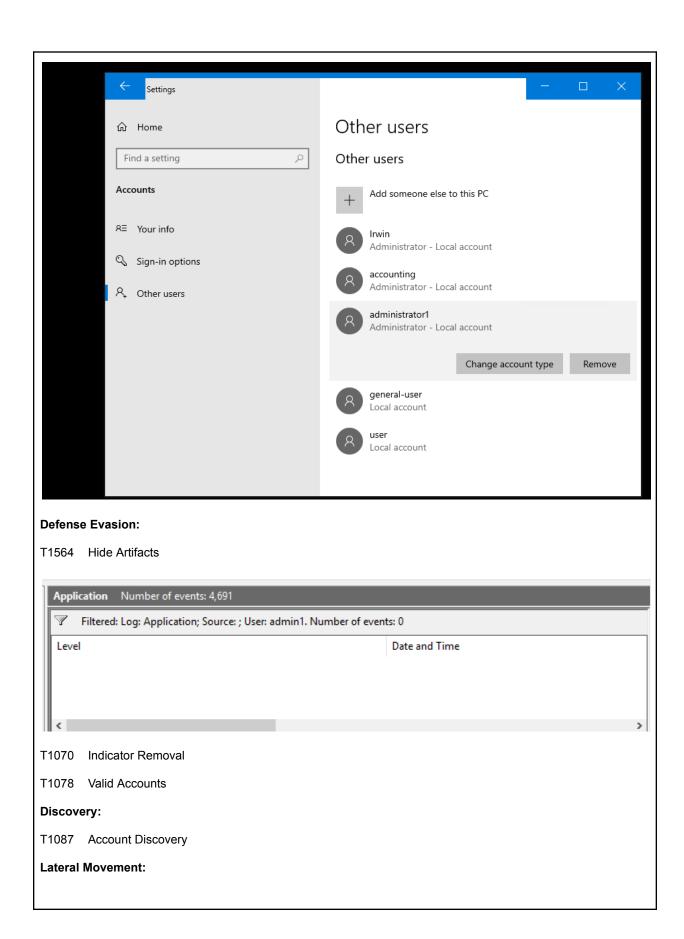




Privilege Escalation:

T1548 Abuse Elevation Control Mechanism

9/13/23 09/13/2023 04:35:40 PM 11:35:40.000 PM LogName=Security EventCode=4732 EventType=0 ComputerName=accounting1 ${\tt SourceName=Microsoft\ Windows\ security\ auditing.}$ Type=Information RecordNumber=434480 Keywords=Audit Success TaskCategory=Security Group Management OpCode=Info Message=A member was added to a security-enabled local group. Subject: Security ID: S-1-5-21-2020954294-3820947412-549806118-500 Account Name: Administrator Account Domain: ACCOUNTING1 Logon ID: 0x19D50EC Member: S-1-5-21-2020954294-3820947412-549806118-1005 Security ID: Account Name: Group: Security ID: S-1-5-32-544 Group Name: Administrators Group Domain: Builtin Additional Information: Privileges:



IP add	lress	▽	Local port ▽	Remote port	Inbound traffic ▽	Outbound traffic ▽	Protoco
10.0.0	.223		21	-	17.2 kB	20.9 kB	TCP
10.0.0	.223		3389	-	71.6 MB	53.8 MB	TCP
10.0.0	.223		443	-	88 B	80 B	TCP
103.14	49.9	2.238	-	15255	0 B	624 B	TCP
103.39	9.23	2.44	-	11499	0 B	624 B	TCP
103.44	4.23	9.201	-	12924	0 B	832 B	TCP
103.55	5.60.	.10	-	10492	0 B	208 B	TCP
112.49	9.12	2.85	-	10942	0 B	624 B	TCP
114.24	14.4	8.11	-	11471	0 B	208 B	TCP
120.25	5.76.	236	-	15123	0 B	208 B	TCP
9/13/23 9:34:07.000 PM	EventTyp Computer Show all	de=4625 pe=0 rName=accounting2					
	Type	✓ Field	Value			Actions	
	Event	Account_Domain ▼				~	
		Account_Name ▼				•	
		Authentication_Package ▼	vagrant NTLM			•	
		Caller_Process_ID ▼	0x0			· ·	
		☐ Caller_Process_Name ▼				~	
		☐ ComputerName ▼	accounting2			~	
		EventCode ▼ EventType ▼	4625 0			· ·	
		Failure_Reason ▼	Unknown user name or bad password.			· ·	
		Key_Length ▼	0			· ·	
		Keywords ▼	Audit Failure			v	
		LogName •	Security			~	
		Logon_ID ▼ Logon_Process ▼	0x0 NtLmSsp			· ·	
		Logon_Type •	NtLmSsp 3			<u> </u>	
		Message ▼	An account failed to log on. Subject: Security I Account Name: vaganat Account Domain: Faili normation: Caller Process ID: MO Caller Proc- ion Information: Logon Process: NILmSip Auti or request fails. It is generated on the compute out commonly a service such as the Server se ed. The most common types are of interactive twork information fields indicate where a rem formation fields provide detailed information formation fields provide detailed information formation fields provide detailed information	ree Information: Failure Reason: Unknown user nar sess Name: - Network Information: Workstation Nam entication Package: NTLM Transited Services: - Par where access was attempted. The Subject fields vive, or a local process such as Windogon exe of all and 3 (network). The Process Information fields in tel logon request originated. Workstation name is about this specific logon request Transited servine.	on ID: 0x0 Logon Type: 3 Account For Which Logon F, ee or bad password. Status: 0xx0000060 Sub Status: et al. Source Network Address: 10xx10 To Source Po Rockage Name NTLM only: - Key Length: 0 This event in discass the account on the local system which require envices.exe. The Logon Type field indicates the kind collecte which caccurate and process on the system required to the system r	OxCO000064 Process I t t O Detailed Authenticat generated when a logo ted the logon. This is m logon that was request ested the logon. The Ne es. The authentication i ted in this logon reques	



Systems Affected by the Incident

Please provide as much detail as possible.

Attack sources (e.g., IP address, port)	IP: 64.227.152.193 Location: Bengaluru, India Port: 18336 Open VPN Access Servers IP: 10.0.0.176, 10.0.0.223
Attack destinations (e.g., IP address, port)	Port: 58706 Public IP: 52.40.120.244 Private IP: 10.0.0.82 Port: 58706
☐ IP addresses of the affected systems	Metasploitable - Public: 52.40.120.244/Private: 10.0.0.82 Accounting1 - 10.0.0.126 Accounting2 - 10.0.0.197 Web1 - 10.0.0.175 CFO-Laptop - 10.0.0.206 Data Analytics Server - 10.0.0.123 RiskAnalyst1 - 10.0.0.74
☐ Primary functions of the affected systems (e.g., web server, domain controller)	Metasploitable - Domain Controller Accounting1 - Accounting Server Accounting2 - Accounting Server Web1 - Web Server CFO-Laptop - Personal Workstation Data Analytics Server - Data processing/storage RiskAnalyst1 - Workstation for data processing

□ Operating systems of the affected systems	Metasploitable - Accounting1 - Windows 2019 Accounting2 - Windows 2019 Web1 - Linux: Ubuntu Server 20.04 CFO-Laptop - Windows 2019 Data Analytics Server - Linux: Ubuntu Server 18.04 RiskAnalyst1 - Windows 7 Professional 64-bit
☐ Security software loaded on the affected systems	Windows Defender - firewalls installed but disabled, Real Time Anti-virus installed but disabled,
Physical location of the affected systems (e.g., state, city, building, room, desk):	Affected systems are on the AWS cloud - Region US West 2 (Oregon)
Additional details:	

Users Affected by the Incident

Please provide as much detail as possible.	
■ Names and job titles of the affected users:	CFO Accounting Department Data Analysts IT Department
☐ System access levels or rights of the affected user	Administrator Regular user Guest account

Additional user details:		
Please provide as much detail as pos	Incident Handling Log ssible.	
Actions taken to identify the affected resources	GuardDuty alerts notified us of communication with a known C2 server and specified metasploitable as the affected resource	
Actions taken to remediate the incident	Elastic IP was removed from instance to stop public access	
Actions planned to prevent similar incidents	Fix vulnerabilities exploited to access the metasploitable instance, upgrade server to OS version supported by Microsoft (2019)	
Additional remediation details: Implement regular security patching in an isolated environment to reduce the chance of lateral movement by threat actors.		
Incident Reporting Information Complete this section if incident report was system generated.		
☐ Software package	n/a	
☐ Host ID and location	n/a	

Additional system information:		
Complete this section if an incident report (was submitted by an individual.	
□ Full name	Benjamin Hobbs	
☐ Job title	SOC Analyst Tier I	
☐ Business unit	Western Regional Headquarters Unit, North America, SimCorp	
☐ Work phone	894-130-7493	
☐ Mobile phone	304-797-6970	
□ Email address	bhobbs@nasimcorp.com	
Additional contact information:		

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Chris Bennett

SOC Analyst Tier I

☐ Full name

☐ Job title

Incident Contact Information

☐ Business unit	Western Regional Headquarters Unit, North America, SimCorp
☐ Work phone	894-130-3468
☐ Mobile phone	304-797-4562
☐ Physical location of affected systems (e.g., state, city, building, room, desk)	cbennett@nasimcorp.com

□ Full name	Robert Gillespie
□ Job title	SOC Analyst Tier II
☐ Business unit	Western Regional Headquarters Unit, North America, SimCorp
☐ Work phone	894-130-5556
☐ Mobile phone	304-797-2734
□ Physical location of affected systems (e.g., state, city, building, room, desk)	rgillespie@nasimcorp.com

□ Full name	Gerald Reitmeyer
□ Job title	SOC Analyst Tier II
☐ Business unit	Western Regional Headquarters Unit, North America, SimCorp
☐ Work phone	894-154-7985
☐ Mobile phone	304-686-3052
□ Physical location of affected systems (e.g., state, city, building, room, desk)	greitmeyer@nasimcorp.com

☐ Full name	Jonathan McMullin
☐ Job title	Senior SOC Analyst Tier III
☐ Business unit	Western Regional Headquarters Unit, North America, SimCorp
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systems (e.g., state, city, building, room, desk)	

□ Full name	Christian Kromann
□ Job title	Chief Executive Officer
☐ Business unit	SimCorp
☐ Work phone	650-349-5986
☐ Mobile phone	650-385-5732
□ Physical location of affected systems (e.g., state, city, building, room, desk)	None