

# **Threat Hunting Project Report**

## **Threat Hunting in the Finance Sector using MITRE ATT&CK**

**Prepared By:  
Junaid AbdulRahman A  
Cybersecurity Analyst**

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## Project Overview

This project focuses on proactive threat hunting within the Finance industry, leveraging the MITRE ATT&CK framework to identify and analyze Advanced Persistent Threat (APT) groups targeting the sector.

The objective was to:

- Identify Finance targeted APTs.
- Analyze their Tactics, Techniques, and Procedures (TTPs).
- Visualize the threat landscape using MITRE Navigator.
- Compare APTs to find common attack vectors.

## Objectives

1. Understand the MITRE ATT&CK framework and its application to real-world threat hunting.
2. Research APTs targeting the Finance sector using SOCRadar Labs.
3. Map identified APTs to relevant TTPs in MITRE ATT&CK Navigator.
4. Perform a comparative analysis to highlight overlapping attack patterns.

## Tools & Resources

- SOCRadar Labs – For retrieving Finance specific APTs.
- MITRE ATT&CK Navigator – For mapping APTs to their TTPs.
- MITRE ATT&CK Framework – For structured adversary behavior taxonomy.
- OSINT Research – To cross-check TTP details from open sources.

## Project Steps

### 1. Understanding the MITRE ATT&CK Framework

- Studied the MITRE ATT&CK framework structure:
  - . Tactics – The why of an attack (e.g., Initial Access, Persistence, Defense Evasion, Credential Access, Collection, Command&Control, Exfiltration).
  - . Techniques – The how of an attack (e.g., phishing, credential dumping).
  - . Procedures – Real-world implementations of techniques

## 2. Research APTs Peculiar to the Sector

- Used SOCRadar Labs to identify APT groups targeting Financials sector.
- Found the following: .
  - . **Lazarus Group**- A North Korean state-sponsored cyber threat group that has been active since at least 2009.
  - . **Carbanak**- This is a cybercriminal group that has used Carbanak malware to target financial institutions since at least 2013.
  - . **OilRig**- is a suspected Iranian threat group that has targeted Middle Eastern and international victims since at least 2014. The group has targeted a variety of sectors, including financial, government, energy, chemical, and telecommunications.
  - . **Cobalt Group**- is a financially motivated threat group that has primarily targeted financial institutions since at least 2016. Cobalt Group has mainly targeted Financial sectors in Eastern Europe, Central Asia, and Southeast Asia.
  - . **Scattered Spider**- is a native English speaking cybercriminal group active since at least 2022. The group initially targeted customer relationship management (CRM) providers, business process outsourcing (BPO) firms, and telecommunications companies before expanding in 2023 to retail, manufacturing, and financial sectors.

## 3. Highlight of the TTPs

- For each APT, identified their key TTPs from MITRE:  
Example (Cobalt Group):
  - T1203 – Exploitation for client execution.
  - T1055 – Process injection.
  - T1572 – Protocol tunneling.
  - T1068 – Exploitation for privilege escalation.
  - T1219 – Remote access tool.

## 4. Map APTs to TTPs using MITRE Navigator

- Created individual layers in MITRE Navigator for each APT.
- Color-coded:
  - . Red – Techniques confirmed for Oil Rig.
  - . Orange – Techniques confirmed for Cobalt.
  - . Yellow – Techniques confirmed for Scattered Spider.
  - . Green – Techniques confirmed for Lazarus.
  - . Blue – Techniques confirmed for Carbanak.

## TTPs mapped for Oil Rig

[illegible]

## TTPs mapped for Cobalt

[illegible]

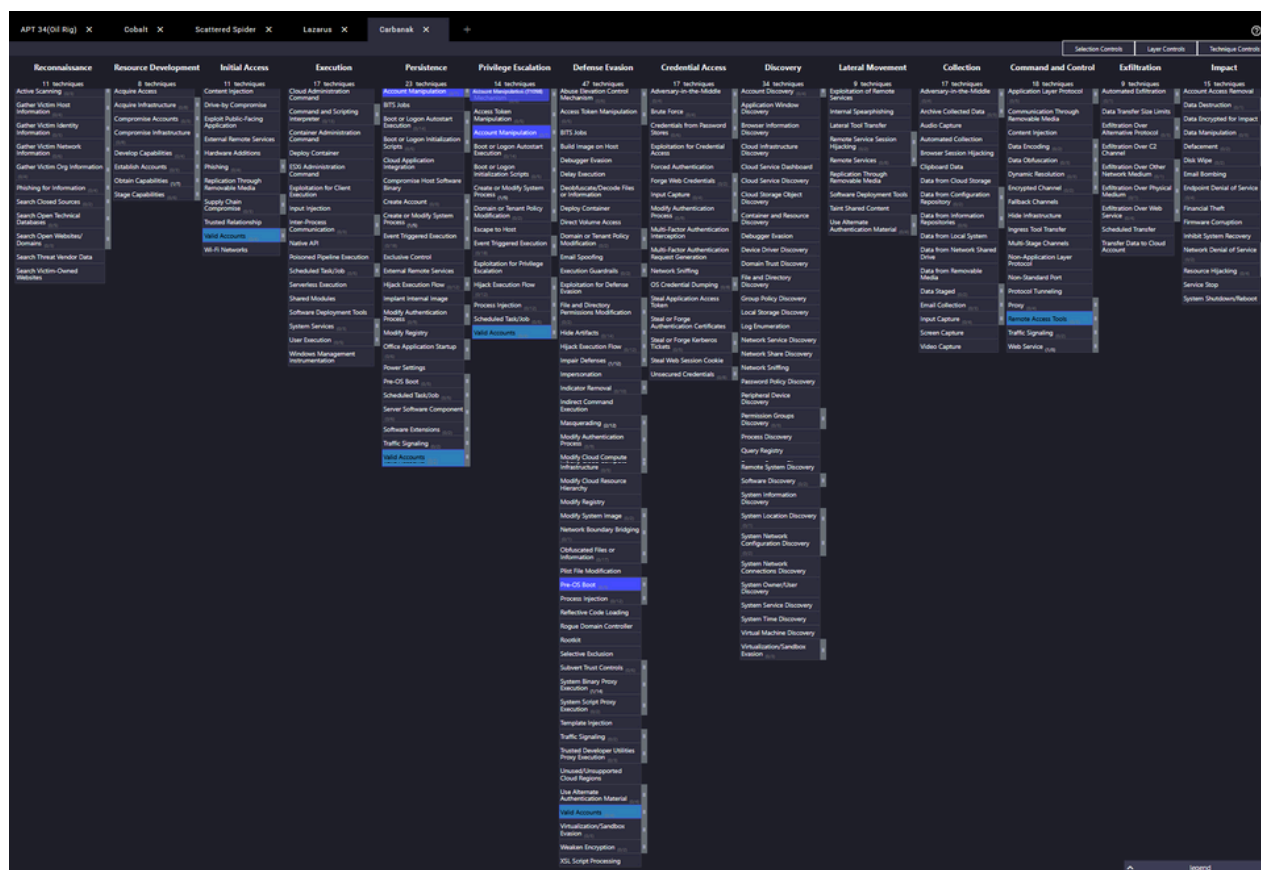
## TTPs mapped for Scattered Spider

[illegible]

## TTPs mapped for Lazarus

[illegible]

# TTPs mapped for Carbanak



## 5. Compare the APTs

- Imported all five APT layers into a combined Navigator view.
- Noted common techniques across multiple APTs, such as:
  - o T1589 – Gather victim identity information
  - o T1078 – Valid Accounts
  - o T1203 – Exploitation for client execution
  - o T1098 – Account manipulation
  - o T1656 – Impersonation
  - o T1110 – Brute force
  - o T1012 – Query registry
  - o T1041 – Exfiltration over C2 channel
  - o T1657 – Financial theft



APT 34(Oil Rig) × Cobalt × Scattered Spider × Lazarus × Carbanak × APTs Overlap × +										Selection Controls		Layer Controls		Technique Controls													
Reconnaissance		Resource Development		Initial Access		Execution		Persistence		Privilege Escalation		Defense Evasion		Credential Access		Discovery		Lateral Movement		Collection		Command and Control		Exfiltration		Impact	
11 techniques		8 techniques		11 techniques		17 techniques		23 techniques		14 techniques		47 techniques		17 techniques		34 techniques		9 techniques		17 techniques		18 techniques		9 techniques		15 techniques	
Active Scanning (2/3) Gather Victim Host Information (2/3) Gather Victim Identity Information (2/3) Gather Victim Network Information (2/3) Gather Victim Org Information (1/4) Phishing for Information (2/4) Search Closed Sources (2/3) Search Open Technical Databases (1/3) Search Open Websites/Domains (2/3) Search Threat Intelligence Data Vendor Data (2/3) Search Victim-Owned Websites	Acquire Access (4/3)	Content Injection (2/3)	Cloud Administration Command (2/3)	Account Manipulation (4/3)	Abuse Elevation Control Mechanism (1/4)	Abuse Elevation Control Mechanism (1/4)	Adversary-in-the-Middle (1/4)	Account Discovery (4/4)	Exploitation of Remote Services (1/4)	Application Layer Protocol (2/3)	Automated Exfiltration (2/3)	Account Access Removal (1/3)															
	Acquire Infrastructure (4/3)	Drive-by Compromise (2/3)	Command and Scripting Interpreter (2/13)	BITS Jobs (1/4)	Access Token Manipulation (1/3)	Access Token Manipulation (1/3)	Brute Force (1/4)	Application Window Discovery (1/3)	Internal Spearphishing (1/3)	Communication Through Removable Media (1/3)	Data Transfer Size Limits (2/3)	Data Destruction (1/3)															
	Compromise Accounts (2/3)	Exploit Public-Facing Application (2/3)	Container Administration Command (2/14)	Boot or Logon Autostart Execution (2/14)	Access Token Manipulation (1/4)	Access Token Manipulation (1/4)	Credentials from Password Stores (1/4)	Browser Information Discovery (1/3)	Archive Collected Data (1/3)	Content Injection (1/3)	Exfiltration Over Alternative Protocol (1/3)	Data Encrypted for Impact (1/3)															
	Compromise Infrastructure (2/3)	External Remote Services (2/3)	Deploy Container (2/3)	Boot or Logon Initialization Scripts (1/3)	Account Manipulation (2/3)	Account Manipulation (2/3)	Exploitation for Credential Access (1/4)	Cloud Infrastructure Discovery (1/3)	Audio Capture (1/3)	Data Encoding (1/2)	Exfiltration Over C2 Channel (1/3)	Data Manipulation (2/3)															
	Develop Capabilities (2/4)	Hardware Additions (2/4)	ESX Administration Command (2/3)	Cloud Application Integration (2/14)	Boot or Logon Autostart Execution (2/14)	Boot or Logon Autostart Execution (2/14)	Debugger Evasion (2/3)	Cloud Service Dashboard (1/3)	Automated Collection (1/3)	Data Obfuscation (1/3)	Exfiltration Over C2 Channel (1/3)	Data Manipulation (2/3)															
	Establish Accounts (1/3)	Phishing (4/4)	Replication Through Removable Media (1/3)	Compromise Host Software Binary (2/3)	Boot or Logon Initialization Scripts (1/3)	Boot or Logon Initialization Scripts (1/3)	Delay Execution (2/3)	Cloud Service Discovery (1/3)	Remote Service Session Hijacking (2/3)	Browser Session Hijacking (1/3)	Exfiltration Over C2 Channel (1/3)	Data Manipulation (2/3)															
	Obtain Capabilities (4/7)	Stage Capabilities (2/3)	Supply Chain Compromise (1/3)	Create Account (1/3)	Create or Modify System Process (2/3)	Create or Modify System Process (2/3)	Deobfuscate/Decode Files or Information (2/3)	Cloud Storage Object Discovery (1/3)	Replication Through Removable Media (1/3)	Clipboard Data (1/3)	Exfiltration Over Other Network Medium (2/3)	Defacement (1/3)															
	Search Open Technical Databases (1/3)	Search Open Websites/Domains (2/3)	Trusted Relationship (2/3)	Create or Modify System Process (2/3)	Domain or Tenant Policy Modification (2/3)	Domain or Tenant Policy Modification (2/3)	Direct Volume Access (2/3)	Container and Resource Discovery (1/3)	Software Deployment Tools (1/3)	Data from Cloud Storage (2/2)	Exfiltration Over Physical Medium (2/3)	Disk Wipe (2/2)															
	Search Threat Intelligence Data Vendor Data (2/3)	Search Victim-Owned Websites	Valid Accounts (2/4)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)	Domain or Tenant Policy Modification (2/3)	Deploy Container (2/3)	Debugger Evasion (1/4)	Taint Shared Content (1/3)	Data from Configuration Repository (2/2)	Exfiltration Over Physical Medium (2/3)	Email Bombing (1/3)															
	Search Victim-Owned Websites	Wi-Fi Networks (1/3)	Scheduled Task/Job (1/3)	Exclusive Control (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Direct Volume Access (2/3)	Device Driver Discovery (1/3)	Use Alternate Authentication Material (1/4)	Data from Information Repositories (1/3)	Exfiltration Over Web Service (1/4)	Financial Theft (1/4)															
		Serverless Execution (2/3)	External Remote Services (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)	Domain Trust Discovery (1/3)		Data from Local System (1/3)	Scheduled Transfer (1/3)	Firmware Corruption (1/4)																
		Shared Modules (2/3)	Hijack Execution Flow (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)	File and Directory Discovery (1/3)		Data from Network Shared Drive (1/3)	Transfer Data to Cloud Account (1/3)	Inhibit System Recovery (1/4)																
		Software Deployment Tools (2/3)	Implant Internal Image (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)	OS Credential Dumping (4/3)		Data from Removable Media (1/3)	Transfer Data to Cloud Account (1/3)	Network Denial of Service (2/3)																
		System Services (1/3)	Modify Authentication Process (1/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)	Steal Application Access Token (2/3)		Data Staged (1/3)	Transfer Data to Cloud Account (1/3)	Resource Hijacking (1/4)																
		User Execution (2/3)	Modify Registry (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)	Steal or Forge Authentication Certificates (2/3)		Email Collection (1/3)	Transfer Data to Cloud Account (1/3)	Service Stop (1/4)																
		Windows Management Instrumentation (2/3)	Office Application Startup (1/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)	Steal Web Session Cookie (2/3)		Input Capture (1/3)	Transfer Data to Cloud Account (1/3)	System Shutdown/Reboot (1/4)																
			Power Settings (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)	Unsecured Credentials (2/3)		Screen Capture (1/3)	Transfer Data to Cloud Account (1/3)																	
			Pre-OS Boot (1/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)			Video Capture (1/3)	Transfer Data to Cloud Account (1/3)																	
			Scheduled Task/Job (1/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)				Transfer Data to Cloud Account (1/3)																	
			Server Software Component (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)				Transfer Data to Cloud Account (1/3)																	
			Software Extensions (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)				Transfer Data to Cloud Account (1/3)																	
			Traffic Signaling (2/3)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)				Transfer Data to Cloud Account (1/3)																	
			Valid Accounts (2/4)	Event Triggered Execution (1/13)	Event Triggered Execution (1/13)	Domain or Tenant Policy Modification (2/3)				Transfer Data to Cloud Account (1/3)																	
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## **Findings**

This threat hunting exercise focused on identifying APTs targeting the finance sector. Key findings include:

- Identified Tactics, Technique and Procedures associated with APT groups targeting finance institutions
- Detected suspicious command and control (C2) communication and data exfiltration attempts
- Identified potential insider threats

## **Recommendations**

- Implement enhanced threat detection and monitoring for APTs
- Strengthen defenses against C2 communication and data exfiltration
- Enhance incidence response plans and procedures for APT incident
- Conduct regular security assessments and penetration testing
- Implement additional security controls for third party vendors and supply chain partners