# Introduction

MITRE's ATT&CK Matrix is a critical resource in the field of cybersecurity, providing comprehensive data on tactics and techniques used by threat actors. While commonly associated with blue team (defensive) activities, the matrix's utility extends to red teamers and purple teamers. This report delves into specific aspects of the ATT&CK Matrix.

 Question: Besides Blue Teamers, who else will use the ATT&CK Matrix? Answer: Red Teamers. They use it for attack simulation.



What is att&ck? MITRE ATT&CK is a framework, collection of data matrices, and assessment tool established by MITRE Corporation to assist organizations in understanding their security readiness and identifying gaps in their defenses.

With the answer to what is att&ck, the MITRE ATT&CK Framework, which was created in 2013, utilizes observations to document targeted attack methods, tactics, and techniques. As new vulnerabilities and attack surfaces emerge, they are introduced to the ATT&CK framework. The MITRE ATT&CK framework EDR and its matrices have grown into an industry standard for both knowledge and restoration tools regarding attacker behavior in recent years.

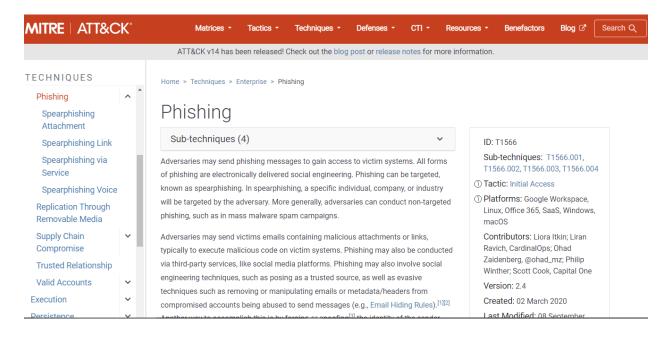
#### What is att&ck? - Who Uses MITRE ATT&CK and Why?

With the query to what is att&ck, a wide range of IT and security professionals use ATT&CK matrices, including red teamers who play the role of attacker or competitor, security product development engineers, threat hunters, threat intelligence teams, and risk management professionals.

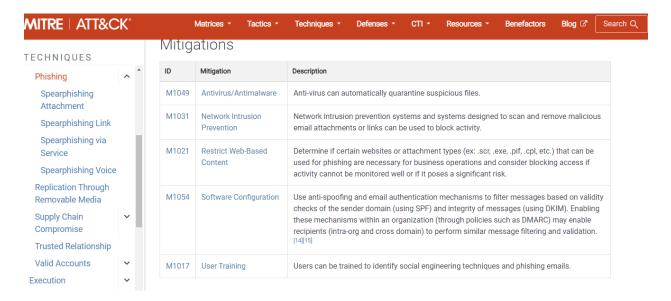
What brings you to the site?

What is att&ck and its use? The MITRE ATT&CK framework is used as a blueprint by red teamers to help uncover attack surfaces and vulnerabilities in corporate systems and

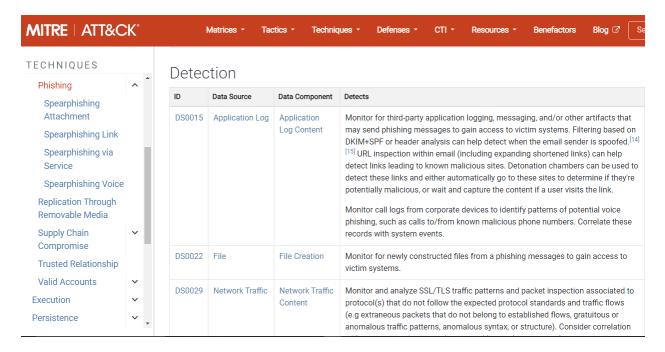
 Question: What is the ID for Technique? Answer: T1566. T1566 is identified as phishing in the MITRE ATT&CK framework.



3. Question: What mitigation covers identifying social engineering techniques based on T1566? Answer: User Training. Educating users on recognizing and responding to social engineering tactics is essential in mitigating spear-phishing attacks.

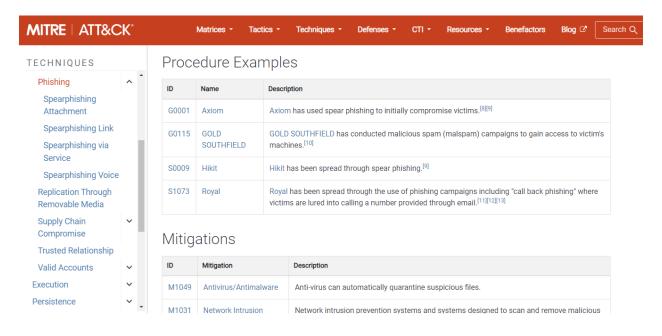


4. **Question:** What are the data sources for Detection of T1566? **Answer:** Application Log, File, Network Traffic. These data sources are key in identifying signs of spear-phishing attempts, such as unusual network traffic or file access patterns.

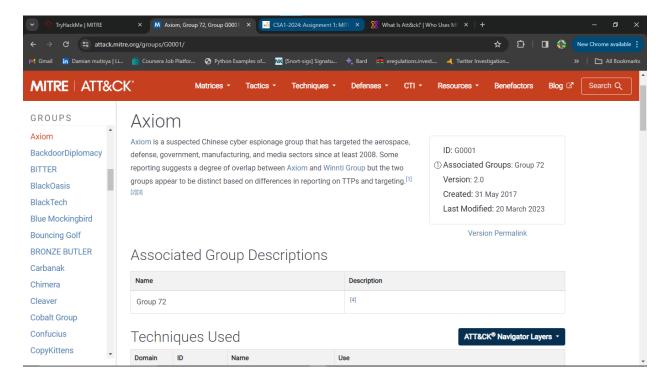


5. **Question:** What groups have used spear-phishing in their campaigns? **Answer:** Axiom, Gold SOUTHFIELD. These groups are known to employ spear-phishing, highlighting the

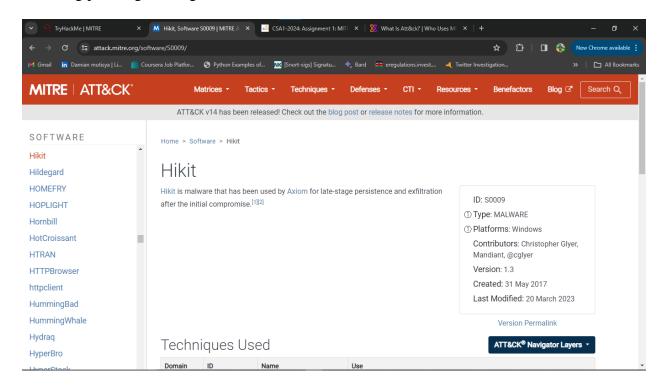
technique's prevalence among sophisticated threat actors.



6. **Question:** What are the associated groups with Axiom? **Answer:** Group 72. Group 72 is linked to Axiom, indicating possible shared tactics or collaborative efforts.

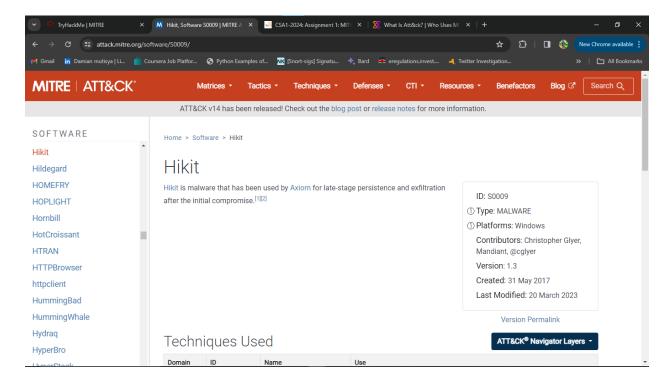


7. **Question:** What software is associated with Axiom that lists phishing as a technique? **Answer:** Hikit. Hikit malware, used by Axiom, signifies advanced persistent threats involving phishing for long-term access and data exfiltration.

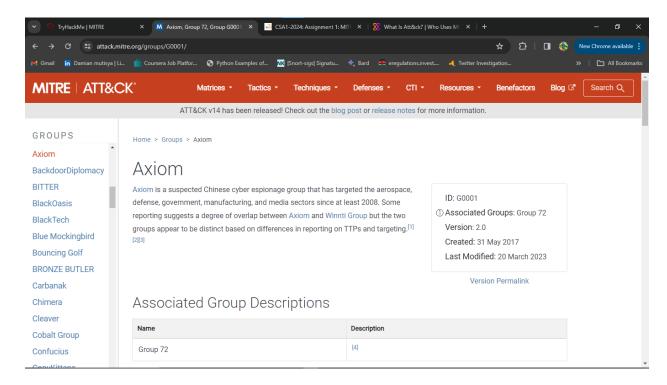


8. **Question:** What is the description of Hikit? **Answer:** Hikit is malware used by Axiom for late-stage persistence and exfiltration after initial compromise. This description underscores Hikit's role in maintaining stealth and extracting information post-

### compromise.

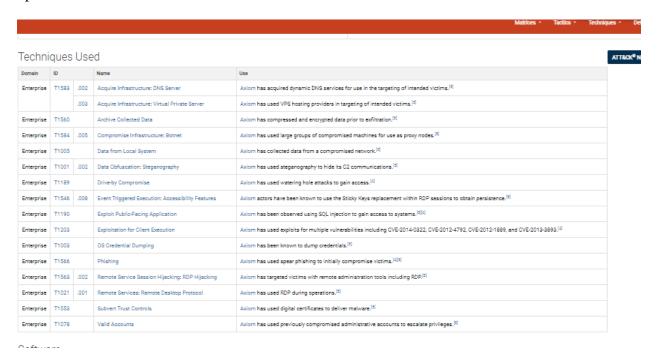


9. **Question:** Which group slightly overlaps with Axiom? **Answer:** Winnti Group. This overlap suggests shared techniques or objectives between Axiom and the Winnti Group.

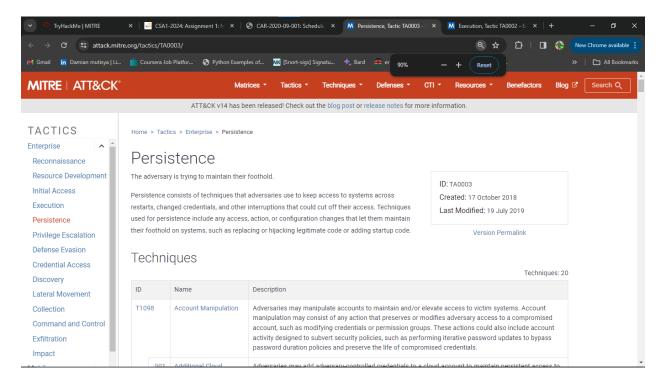


10. Question: How many techniques are attributed to this group? **Answer:**15. This number reflects the group's diverse arsenal of tactics and their sophisticated approach to cyber

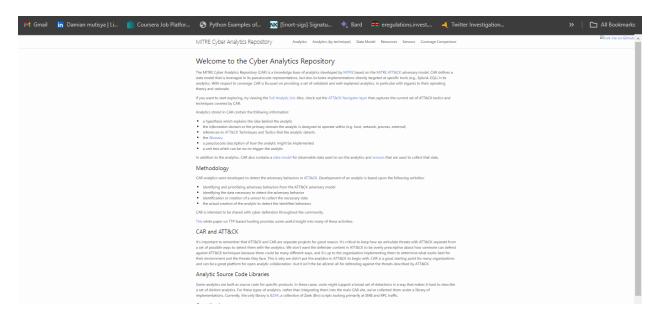
operations.



11. **Question:** What tactic has an ID of TA0003? **Answer:** Persistence. TA0003 refers to tactics used by adversaries to maintain their foothold within a target's network.



12. Question: What is the name of the library of Zeek scripts? Answer: BZAR. BZAR (Bro/Zeek ATT&CK-based Analytics and Reporting) is a collection of scripts enhancing network analysis with respect to ATT&CK techniques.



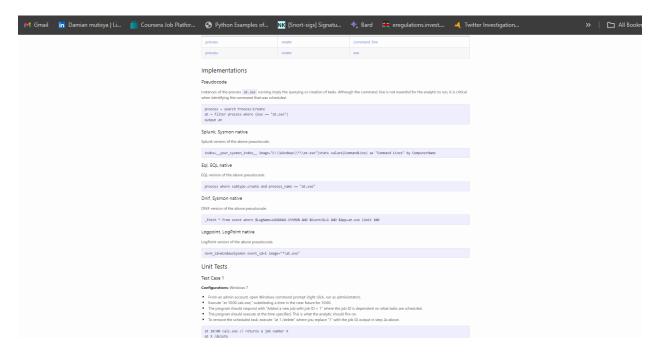
13. **Question:** What is the technique for running executables with the same hash but different names? **Answer:** Masquerading. it involves altering executable files to evade detection

# while retaining malicious functionality.

Analytics						
nalytic List (sortable)						
ID	Name	Submission Date	ATT&CK Techniques	Implementations	Applicable Platforms	
CAR-2013-01-002	Autorun Differences	January 25 2013	Create or Modify     System Process     Scheduled Task/Job		Windows	
CAR-2013-01-003	SMB Events Monitoring	January 25 2013	Data from Network     Shared Drive     Remote Services	Pseudocode	N/A	
CAR-2013-02-003	Processes Spawning cmd.exe	February 05 2013	Command and     Scripting Interpreter	Dnif, Logpoint, Pseudocode	Windows	
CAR-2013-02-008	Simultaneous Logins on a Host	February 18 2013	Valid Accounts	Pseudocode	Windows, Linux, macOS	
CAR-2013-02-012	User Logged in to Multiple Hosts	February 27 2013	Valid Accounts		Windows, Linux, macOS	
CAR-2013-03-001	Reg.exe called from Command Shell	March 28 2013	Query Registry     Modify Registry	Dnif, Pseudocode	Windows	
CAR-2013-04-002	Quick execution of a series of suspicious commands	April 11 2013	Account Discovery     OS Credential     Dumping	Dnif, Logpoint, Pseudocode, Sigma	Windows, Linux, macOS	
CAR-2013-05-002	Suspicious Run Locations	May 07 2013	Masquerading	Dnif, Logpoint, Pseudocode, Sigma	Windows	
CAR-2013-05-003	SMB Write Request	May 13 2013	Lateral Tool Transfer     Remote Services	Pseudocode	Windows, Linux, macOS	
CAR-2013-05-004	Execution with AT	May 13 2013	Scheduled Task/Job	Dnif, Eql, Logpoint, Pseudocode, Splunk	Windows	
CAR-2013-05-005	SMB Copy and Execution	May 13 2013	Remote Services     Valid Accounts	Pseudocode	Windows, Linux, macOS	
CAR-2013-05-009	Running executables with same hash and different	May 23 2013	Masquerading	Dnif, Logpoint, Sigma, Splunk	Windows, Linux, macOS	

14. **Question:** What additional information does CAR-2013-05-004 provide? **Answer:** Unit Tests. Unit Tests are provided to help analysts validate and ensure coverage for specific

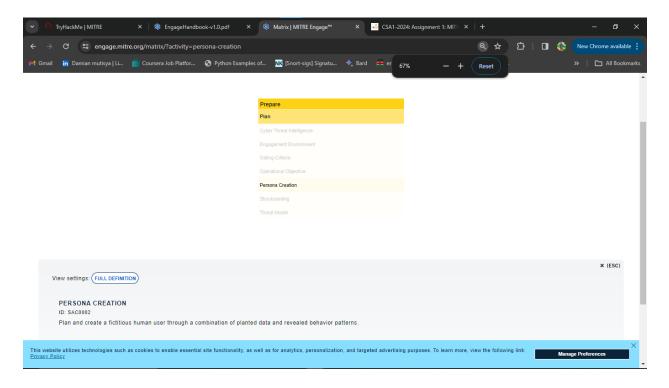
techniques, enhancing detection capabilities.



15. Question: Under Prepare, what is ID SAC0002? Answer: Persona Creation. SAC0002,

Persona Creation, involves creating profiles or identities for use in cyber operations or

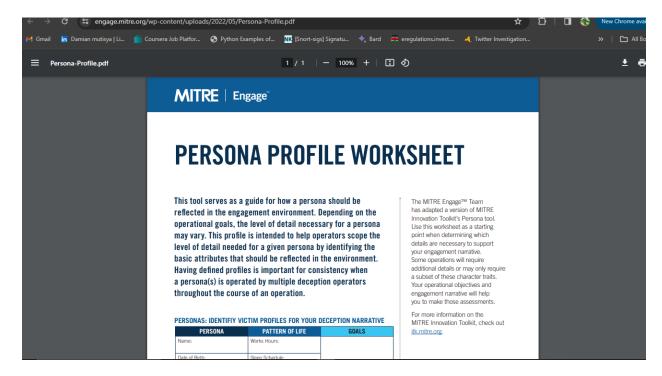
simulations.



16. Question: What is the resource for Persona Creation? Answer: Persona Profile

Worksheet. This worksheet aids in developing detailed and plausible personas for various

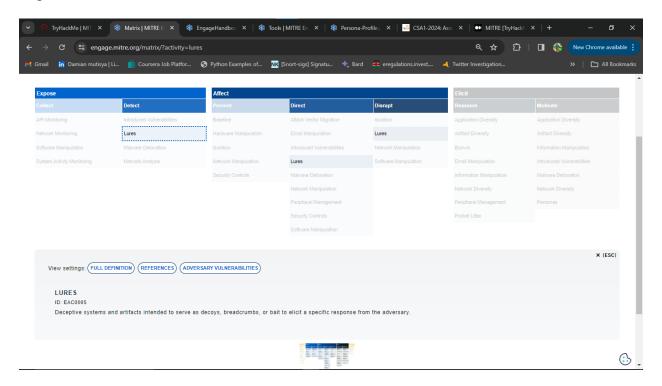
cyber engagements.



17. **Question:** Which engagement activity baits a specific response from the adversary?

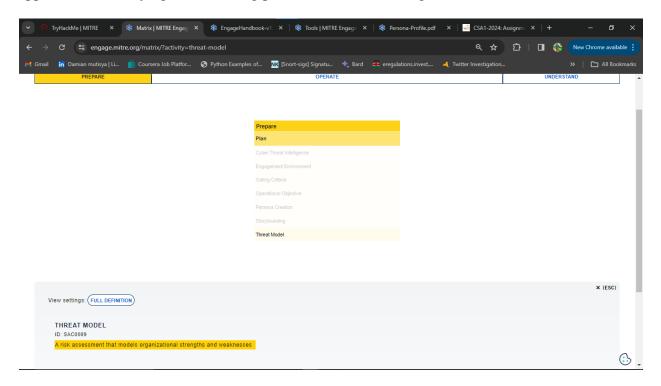
**Answer.** Lures. Lures are tactics designed to entice or provoke specific actions or

responses from adversaries.



18. **Question:** What is the definition of Threat Model? **Answer:** A risk assessment that models organizational strengths and weaknesses. Threat Modeling is a systematic

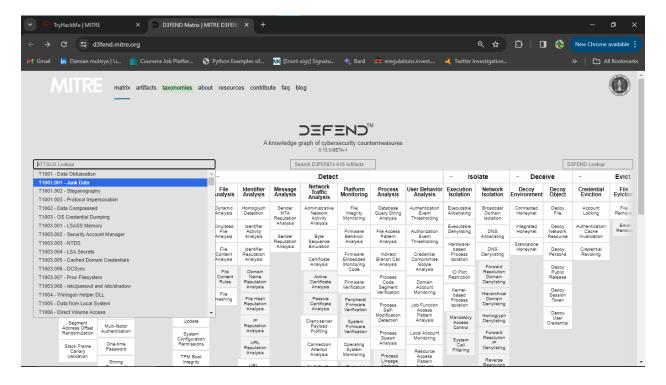
approach to identifying and assessing potential threats to an organization.



19. Question: What is the first MITRE ATT&CK technique listed in the dropdown?

**Answer:** Data Obfuscation. This technique involves disguising data to hide malicious

activity, underscoring the complexity of modern cyber threats



20. **Question:** In D3FEND Inferred Relationships, what does Data Obfuscation produce?

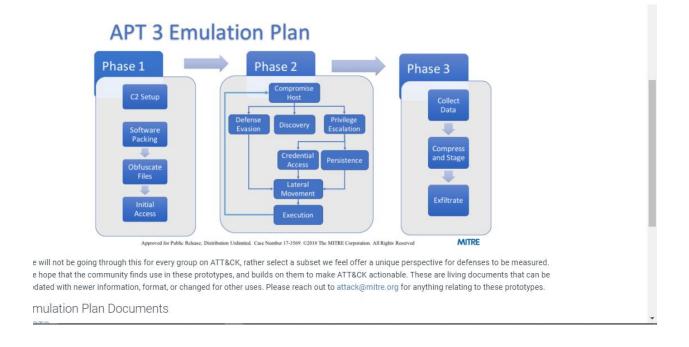
Answer: Outbound Internet Network Traffic. This indicates that Data Obfuscation

techniques often result in detectable network traffic patterns.

Esc	м
	Data Obfuscation - T1001
	(ATT&CK® Technique)
	Subtechniques    11001.001 - Jane Date   11001.002 - Requirementals   11001.003 - Produced Imperioranties
	D3FEND Inferred Relationships  Browse the D0FEND knowledge graph by clicking on the nodes below.
	Detect Isolate
	The Community Devorities Devorities (Sping Sping)  The Developed Sping Devorities (Sping Sping)  The Developed Sping Devorities (Sping Sping)  The Developed Sping Devorities (Sping Sping)  The Sping Devorities (Sping Sping Sping)  The Sping Devorities (Sping Sping

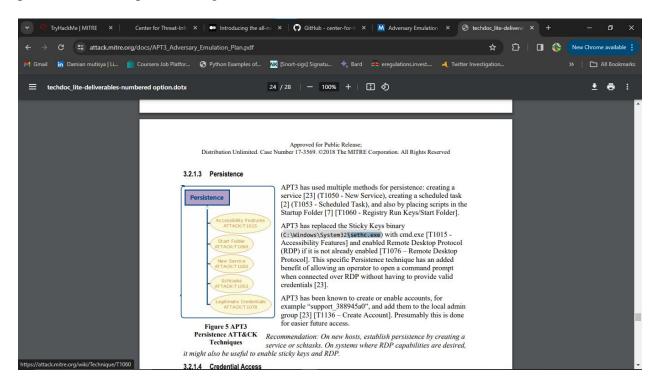
21. **Question:** In the APT3 Emulation Plan's Phase 1, what is listed first? **Answer:**C2 Setup Command and Control (C2) setup is crucial in establishing communication channels for

controlling compromised systems.



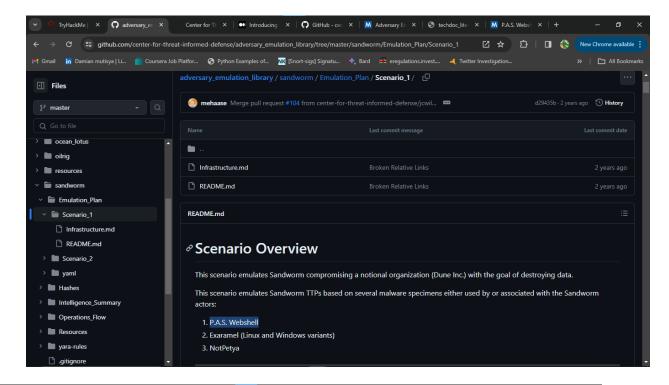
22. **Question:** Under Persistence, what binary was replaced with cmd.exe? **Answer:** sethc.exe. Replacing system binaries like sethc.exe with cmd.exe is a common

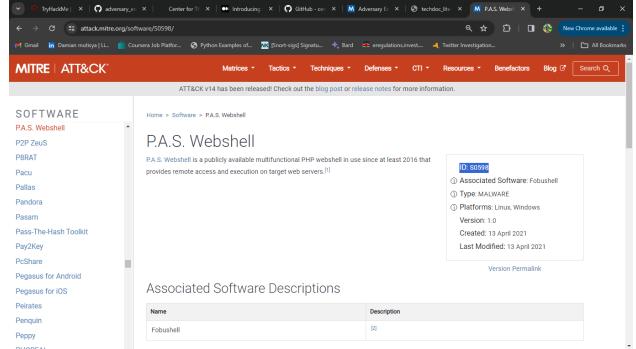
persistence technique, allowing backdoor access.



- 23. **Question:** In APT29, what C2 frameworks are listed in Scenario 1? **Answer:** Pupy, Metasploit Framework: These frameworks provide versatile tools for establishing and maintaining control over compromised systems.
- 24. **Question:** What C2 framework is listed in Scenario 2 for APT29? **Answer:**PoshC2.PoshC2 is a PowerShell C2 framework used for post-exploitation and lateral movement.
- 25. **Question:** In the Sandworm Emulation Plan, what webshell is used in Scenario 1? **Answer:** P.A.S., ID: S0598. The use of P.A.S. webshell, identified as S0598, highlights

the group's preference for specific web-based exploitation tools.

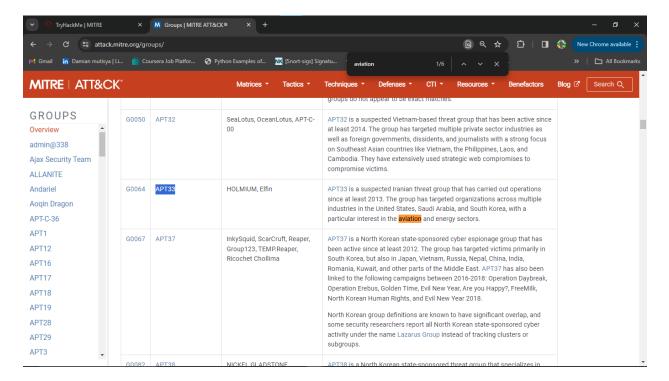




26. **Question:** What is a group that targets your sector and has been active since 2013?

Answer: APT33.APT33's long-term activity underscores the need for sustained vigilance

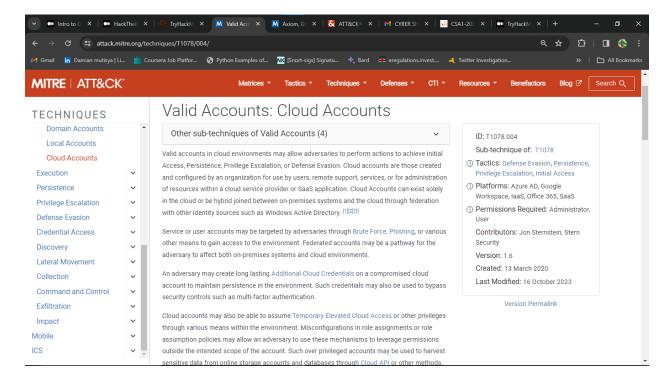
and threat intelligence in the targeted sector.



27. Question: For cloud migration, what should be focused on regarding APT33? Answer:

Cloud Accounts. As organizations migrate to the cloud, safeguarding cloud accounts

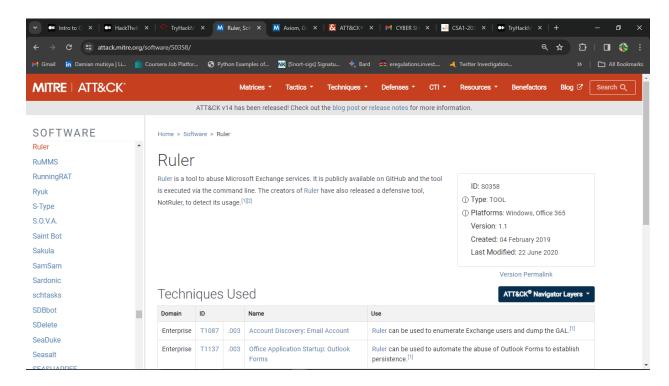
against APT33's known tactics becomes crucial.



28. Question: What tool is associated with APT33 for cloud account exploitation? Answer:

Ruler. Ruler is a tool known for its effectiveness in compromising and manipulating

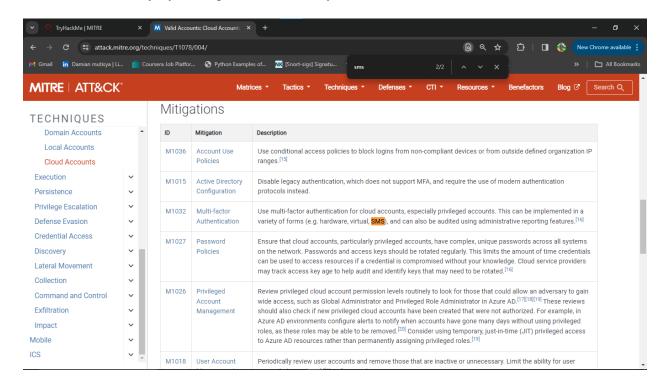
cloud-based services.



29. **Question:** For the technique T1566, what mitigation suggests SMS for implementation?

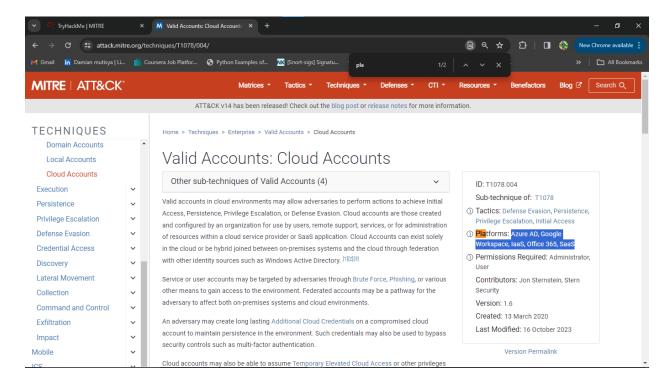
Answer: Multi-factor Authentication. Using SMS as part of Multi-factor Authentication

can enhance security by adding an additional layer of verification.



30. **Question:** What platforms are affected by Technique T1566? **Answer:** Azure AD, Google Workspace, IaaS, Office 365, SaaS. These platforms, being widely used in

various organizational environments, are common targets for spear-phishing attacks.



## **Conclusion**

The MITRE ATT&CK Matrix is an invaluable tool in the cybersecurity landscape, utilized by various teams for different purposes. The detailed analysis of Technique T1566 and related queries reveal the depth and breadth of the Matrix's application. From understanding specific attack techniques to planning defense strategies, the ATT&CK Matrix serves as a cornerstone for cybersecurity professionals seeking to bolster their defenses and understand the ever-evolving cyber threat landscape.

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