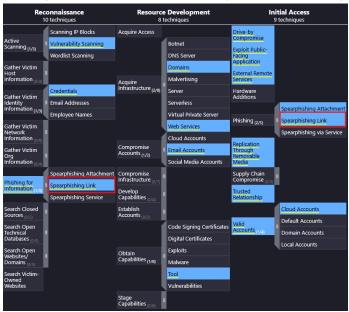
#### **Eviction**

#### Q1: What is a technique used by the APT to both perform recon and gain initial access?

Checking the *Reconnaissance* and Initial *Access stages* of the APT28 group in the MITRE ATT&CK Navigator, we see that in both stages the "Spearphishing Link" (T1598.003) sub-technique was used to harvest and later take advantage of the harvested credentials to gain access to the target network.



ANSWER: Spearphishing link

#### Q2: Sunny identified that the APT might have moved forward from the recon phase. Which accounts might the APT compromise while developing resources?

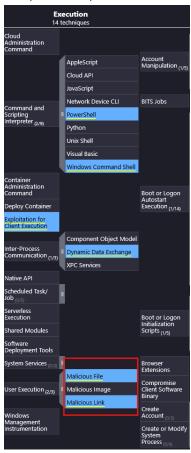
Looking at the *Resource Development* tactic, we see that "Email Accounts" (T1586.002) sub-technique was utilized, and used compromised email accounts to send credential phishing emails and potentially send malicious spam.



ANSWER: Email accounts

Q3: E-corp has found that the APT might have gained initial access using social engineering to make the user execute code for the threat actor. Sunny wants to identify if the APT was also successful in execution. What two techniques of user execution should Sunny look out for? (Answer format: <technique 1> and <technique 2>)

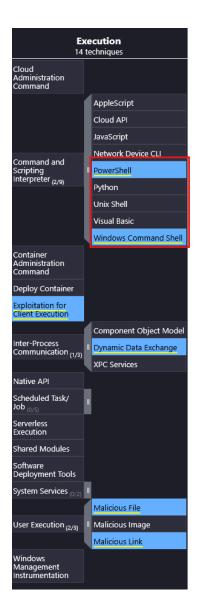
Reading through the "Email Accounts" technique we learn that "adversaries may target compromising well-known email accounts or domains from which malicious spam or emails may evade reputation-based email filtering rules". Assuming that a user had already executed malicious code, it could have been in the form of a "Malicious Link" (T1204.001) or a "Malicious File" (T1204.002) that was sent to the victim.



ANSWER: Malicious file and malicious link

Q4: If the above technique was successful, which scripting interpreters should Sunny search for to identify successful execution? (Answer format: <technique 1> and <technique 2>)

Assuming the previously mentioned technique was successful, we should search for the "Powershell" (T1059.001) interpreter that is used to download and execute PowerShell scripts and perform PowerShell commands, as well as the "Windows Command Shell" (T1059.003) interpreter, that uses a cmd.exe and batch script to run a payload of a trojan.



ANSWER: Powershell and Windows Command shell

Q5: While looking at the scripting interpreters identified in Q4, Sunny found some obfuscated scripts that changed the registry. Assuming these changes are for maintaining persistence, which registry keys should Sunny observe to track these changes?

Assuming the adversary obfuscated scripts that changed the registry to maintain persistence, we move forward to the "Persistence" tactic, there we can find that APT28 often takes advantage of "Registry Run Keys / Startup Folder"(T1547.001) sub-technique, to use the entries that allow programs to automatically execute when a user logs on.

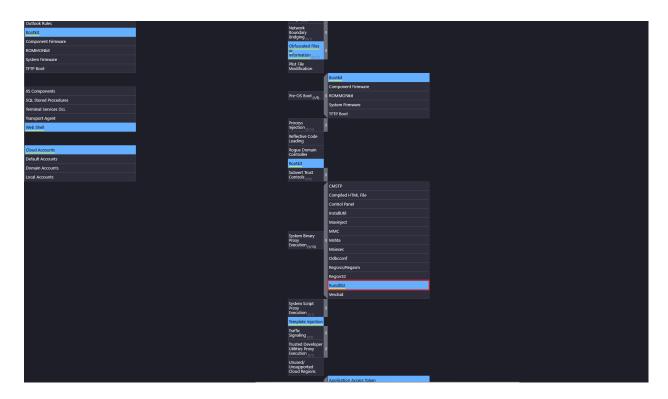


ANSWER: Registry run keys

## Q6: Sunny identified that the APT executes system binaries to evade defences. Which system binary's execution should Sunny scrutinize for proxy execution?

According to MITRE - "Adversaries may bypass process and/or signature-based defenses by proxying execution of malicious content with signed, or otherwise trusted, binaries."

Moving to the *Defense Evasion* tactic to look for a technique that could've been used for that, we see the Rundll32(T1218.011) sub-technique. adversaries abuse the Rundll32.exe file to avoid triggering security tools that may not monitor its execution.



ANSWER: Rundll32

Q7: Sunny identified tcpdump on one of the compromised hosts. Assuming this was placed there by the threat actor, which technique might the APT be using here for discovery?

Based on the findings, we proceed to the *Discovery* tactic where we can find "Network Sniffing" (T1040) which can be used to monitor network traffic to capture information about the environment.



**ANSWER:** Network sniffing

# Q8: It looks like the APT achieved lateral movement by exploiting remote services. Which remote services should Sunny observe to identify APT activity traces?

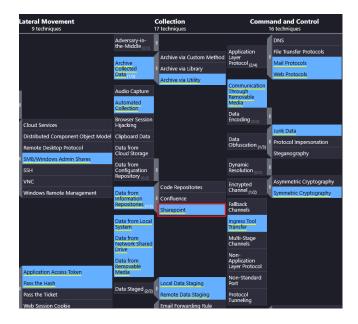
Knowing that the adversary achieved lateral movement by exploiting remote services going over the different remote services sub-techniques we see "SMB/Windows Admin Shares" (T1021.002) which is used to interact with a remote network share using Server Message Block and falls inline with what we are looking for.



**ANSWER:** SMB/Windows Admin shares

## Q9: It looked like the primary goal of the APT was to steal intellectual property from E-corp's information repositories. Which information repository can be the likely target of the APT?

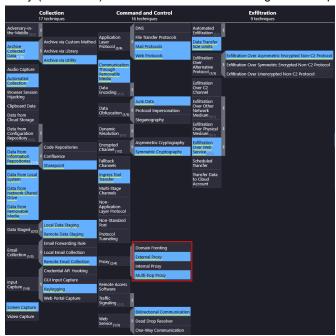
This time we're looking for a certain "Data from Information Repositories" sub-technique as we suspect that stealing intellectual property was the goal of the adversary. As SharePoint allows for storage, retrieval, searching, archiving, tracking, management, and reporting on electronic documents and records, it seems like "Sharepoint(T1213.002)" sub-technique is what we're looking for, as it is often used as a source to mine valuable information.



**ANSWER:** Sharepoint

Q10: Although the APT had collected the data, it could not connect to the C2 for data exfiltration. To thwart any attempts to do that, what types of proxy might the APT use? (Answer format: <technique 1> and <technique 2>)

To manage command and control communication, the adversary might use the "External Proxy" (T1090.002) to act as an intermediary for network communications to avoid direct connections to their infrastructure. and "Multi-hop Proxy" (T1090.003) which can be used to chain together multiple proxies to disguise the source of malicious traffic.



ANSWER: "external proxy and multi-hop proxy"