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TryHackMe : Trooper Writeup



Daouda Diallo · [Follow](#)

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Synopsis : " A global tech company has suffered several cyber attacks recently, leading to stolen intellectual property and operational disruptions.

Our task as a CTI analyst is to identify the Tactics, Techniques, and Procedures (TTPs) used by the attackers and gather information on their identity and motives, using the OpenCTI platform and MITRE ATT&CK navigator. "

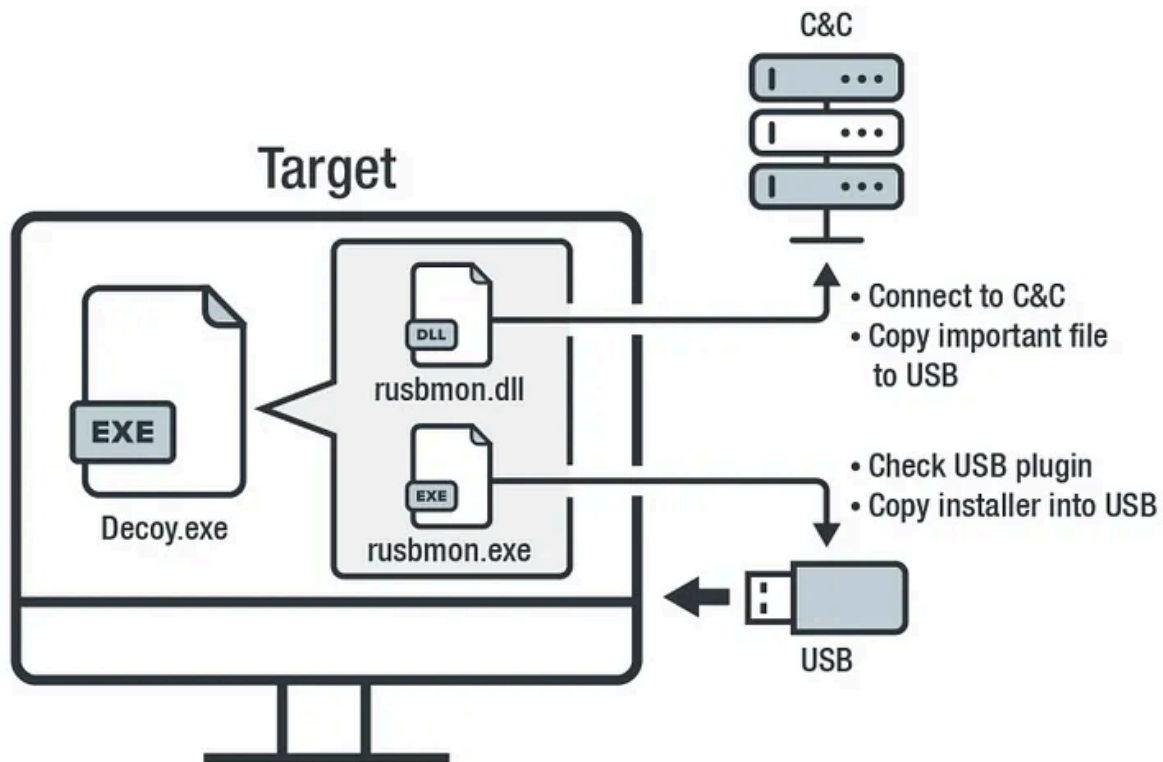
Intro (Based on APT X report sample provided by THM) :

APT X, a threat actor group that targets government, military, healthcare, transportation, and high-tech industries in Taiwan, the Philippines, and Hong Kong, has been active since 2011.

The group was reportedly using **spear-phishing** emails with weaponized attachments to exploit known vulnerabilities. Primarily motivated by **information theft** and **espionage**, the group has also been seen adopting different strategies such as fine-tuning tools with new behaviors and going mobile with surveillanceware.

We found that APT X's latest activities center on targeting Taiwanese and the Philippine military's physically isolated networks through a USBferry attack (the name derived from a sample found in a related research). We also observed targets among military/navy agencies, government institutions, military hospitals, and even a national bank. The group employs USBferry, a USB malware that performs different commands on specific targets, maintains stealth in environments, and steals critical data through USB storage.

We started tracking this particular campaign in 2018, and our analysis shows that it uses a fake executable decoy and a USB trojan strategy to steal information. Based on data from the Trend Micro™ Smart Protection Network™ security infrastructure, USBferry attacks have been active since 2014. We found the group was focused on stealing defense-, ocean-, and ship-related documents from target networks, which led us to believe that APT X's main purpose is to exfiltrate confidential information or intelligence.

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Source : TrendMicro

Challenge

As a CTI analyst, our task is to identify the Tactics, Techniques, and Procedures (TTPs) being used by the Threat group and gather as much information as possible about their identity and motive.

Here is the report shared with us as a CTI analyst : [Threat Advisory Report](#) .

Question1 : What kind of phishing campaign does APT X use as part of their TTPs ?

The given report sample shows that APT X is known for using spear-phishing emails as initial access tactic .

Answer :

What kind of phishing campaign does APT X use as part of their TTPs?

spear-phishing emails

Phishing_campaign : Spear-phishing emails

Question2 : What is the name of the malware used by APT X ?

The report states that APT X's latest activities center on targeting Taiwanese and the Philippine military's physically isolated networks through a **USBferry attack** (the name derived from a sample found in a related research).

Answer :

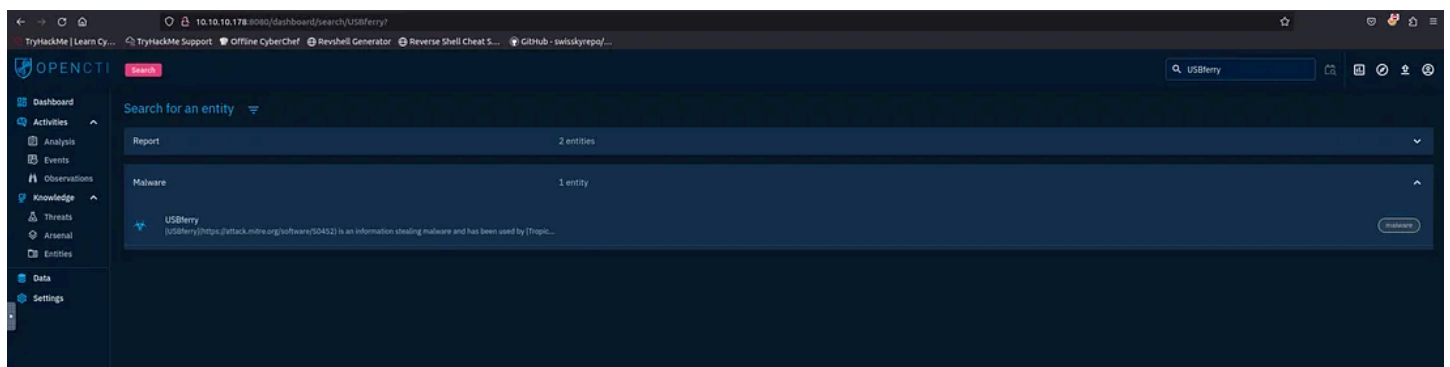
What is the name of the malware used by APT X?

USBferry

Malware_name : USBferry

Question3 : What is the malware's STIX ID ?

We'll utilize our threat intelligence platform, OpenCTI, for this task. After accessing OpenCTI, we need to check for the USBferry malware.



USBFERRY :

BASIC INFORMATION

Standard STIX ID ⓘ

malware--5d0ea014-1ce9-5d5c-bcc7-f625a07907d0

Other STIX IDs ⓘ

malware--75bba379-4ba1-467e-8c60-ec2b269ee984

Marking

Copyright...

Revoked

NO

Author

THE MITRE CORPORATION

Labels +

malware

Confidence level

LOW

Creation date (in this platform)

May 2, 2022 at 12:34:37 PM

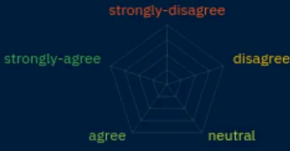
Creator

ADMIN

Processing status

DISABLED

Distribution of opinions ⓘ



Creation date

May 20, 2020 at 8:54:06 PM

Modification date

May 24, 2022 at 3:13:37 PM

What is the malware's STIX ID?

malware--5d0ea014-1ce9-5d5c-bcc7-f625a07907d0

STIX ID : malware — 5d0ea014-1ce9-5d5c-bcc7-f625a07907d0

Question4 : With the use of a USB, what technique did APT X use for initial access ?

You can find this information using the MITRE ATT&CK Navigator. By examining the initial access tactics associated with this group, you can identify the techniques employed by the threat actor.

Reconnaissance 10 techniques	Resource Development 7 techniques	Initial Access 9 techniques	Execution 13 techniques
Active Scanning (0/3)	Acquire Infrastructure (0/7)	Drive-by Compromise	Command and Scripting Interpreter (1/8)
Gather Victim Host Information (0/4)	Compromise Accounts (0/3)	Exploit Public-Facing Application	Container Administration Command
Gather Victim Identity Information (0/3)	Compromise Infrastructure (0/7)	External Remote Services	Deploy Container
Gather Victim Network Information (0/6)	Develop Capabilities (0/4)	Hardware Additions	Exploitation for Client Execution
Gather Victim Org Information (0/4)	Establish Accounts (0/3)	Phishing (1/3)	Inter-Process Communication (0/3)
Phishing for Information (0/3)	Obtain Capabilities (0/6)	Replication Through Removable Media	Native API
Search Closed Sources (0/2)	Stage Capabilities (0/6)	Supply Chain Compromise (0/3)	Scheduled Task/Job (0/5)
Search Open Technical Databases (0/5)		Trusted Relationship	Serverless Execution
Search Open Websites/Domains (0/3)		Valid Accounts (1/4)	Shared Modules
Search Victim-Owned Websites			Software Deployment Tools
			System Services (0/2)
			User Execution (1/3)
			Windows Management Instrumentation

With the use of a USB, what technique did APT X use for initial access?

Replication through removable media

Initial_access : Replication through removable media

Question5 : What is the identity of APT X ?

APT X is known by Tropic Trooper .

Home > Groups > Tropic Trooper

Tropic Trooper

Tropic Trooper is an unaffiliated threat group that has led targeted campaigns against targets in Taiwan, the Philippines, and Hong Kong. Tropic Trooper focuses on targeting government, healthcare, transportation, and high-tech industries and has been active since 2011.^{[1][2][3]}

This can also be found using OpenCTI, by checking the reports related to USBferry.

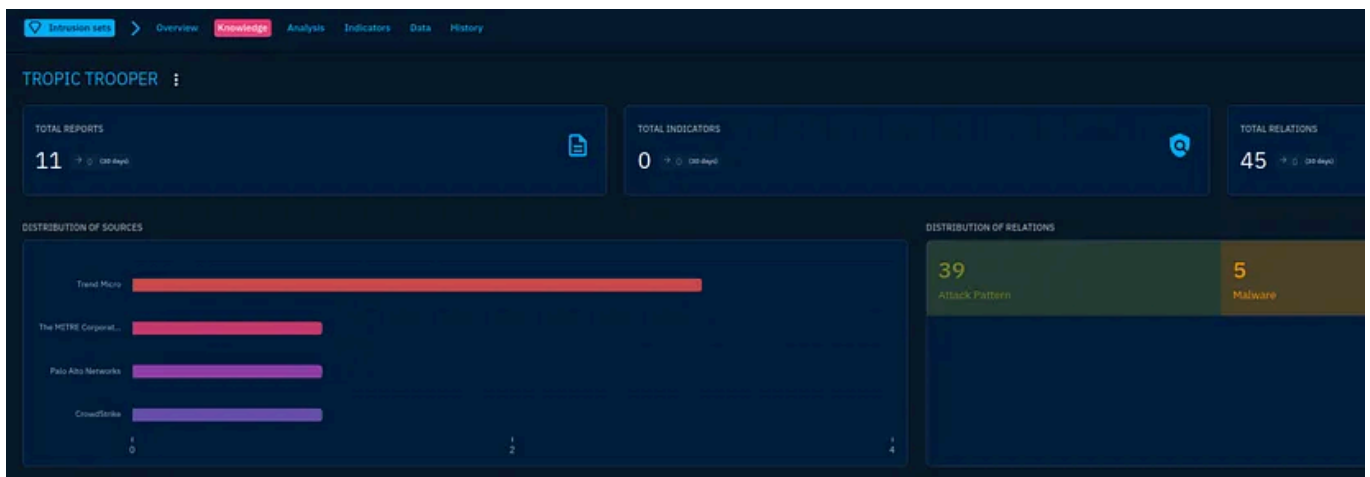


What is the identity of APT X?

Tropic Trooper

Identity : Tropic Trooper

Question6 : On OpenCTI, how many Attack Pattern techniques are associated with the APT ?



39 attack patterns are associated with Tropic Trooper threat actor .

On OpenCTI, how many Attack Pattern techniques are associated with the APT?

39

Attack_patterns : 39

Question7 : What is the name of the tool linked to the APT ?

Using OPENCTI, we can find tools used by Tropic Trooper group, but checking the arsenal menu related to the threat actor in the right corner, then tools.



What is the name of the tool linked to the APT?

BITSAdmin

Tool : BITSAdmin

Question8 :

Load up the Navigator. What is the sub-technique used by the APT under Valid Accounts ?

Review the persistence tactic, then expand the "Valid Accounts" technique at the bottom.

Privile
13

Load up the Navigator. What is the sub-technique used by the APT under Valid Accounts?

Local Accounts

sub-technique : Local Accounts

Question9 : Under what Tactics does the technique above fall ?

The “**local accounts**” technique can be classified under four distinct tactics in the MITRE ATT&CK framework: Initial Access, Persistence, Defense Evasion, and Privilege Escalation. This classification highlights the versatility and impact of local accounts in a cybersecurity context.

Initial Access: Local accounts can be used by attackers to gain initial access to a system, particularly if they exploit weak or default credentials that provide entry points into a network or system.

Persistence: Once inside a system, attackers can create or manipulate local accounts to maintain access over time. By establishing local accounts with persistent access, they ensure that they can return to the system even if other access methods are discovered and removed.

Defense Evasion: Local accounts may help in evading detection by blending in with legitimate accounts or avoiding monitoring systems that focus on network or domain-level activities. Attackers might use local accounts to avoid triggering security alerts that are typically configured for network-based threats.

Privilege Escalation: Attackers might leverage local accounts to escalate privileges. For instance, if they manage to create or modify local administrator accounts, they can gain elevated privileges that allow them to perform actions with higher levels of access and control.

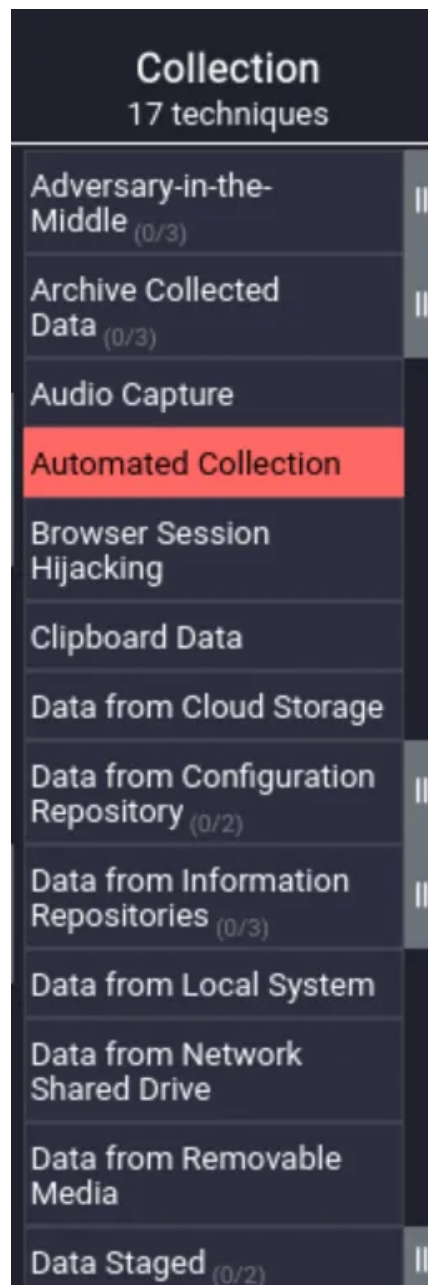
Under what Tactics does the technique above fall?

Initial Access, Persistence, Defense Evasion and Privilege Escalation

Tactics : Initial Access, Persistence, Defense Evasion and Privilege Escalation

Question9 : What technique is the group known for using under the tactic Collection?

The group is known for using an “**automated collection**” technique as part of their **collection** strategy.



What technique is the group known for using under the tactic Collection?

Automated Collection

Technique : Automated Collection

The room was straightforward but engaging, offering valuable insights into the Tropic Trooper threat actor and threat intelligence analysis.

It provides a detailed look at their tactics and helps understanding of how threat intelligence is used to counteract such threats.

Overall, it was both informative and enjoyable.

Thanks for reading !

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Tropic Trooper

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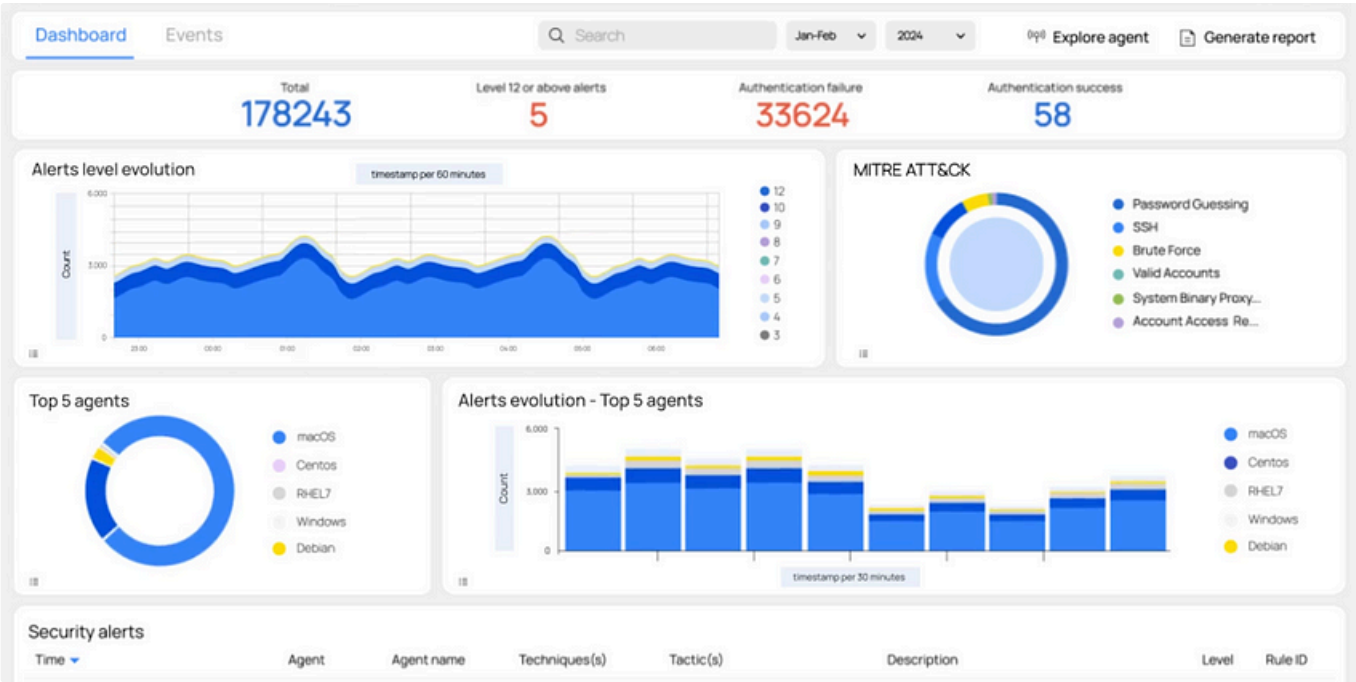
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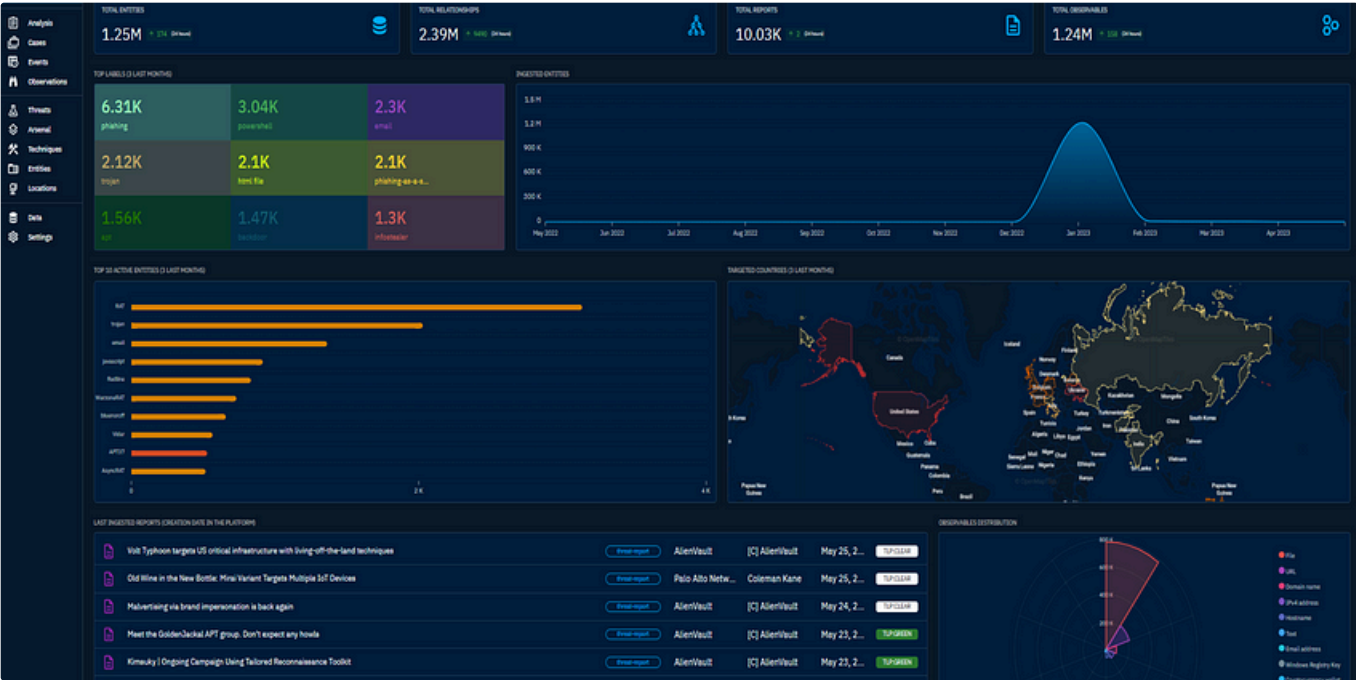


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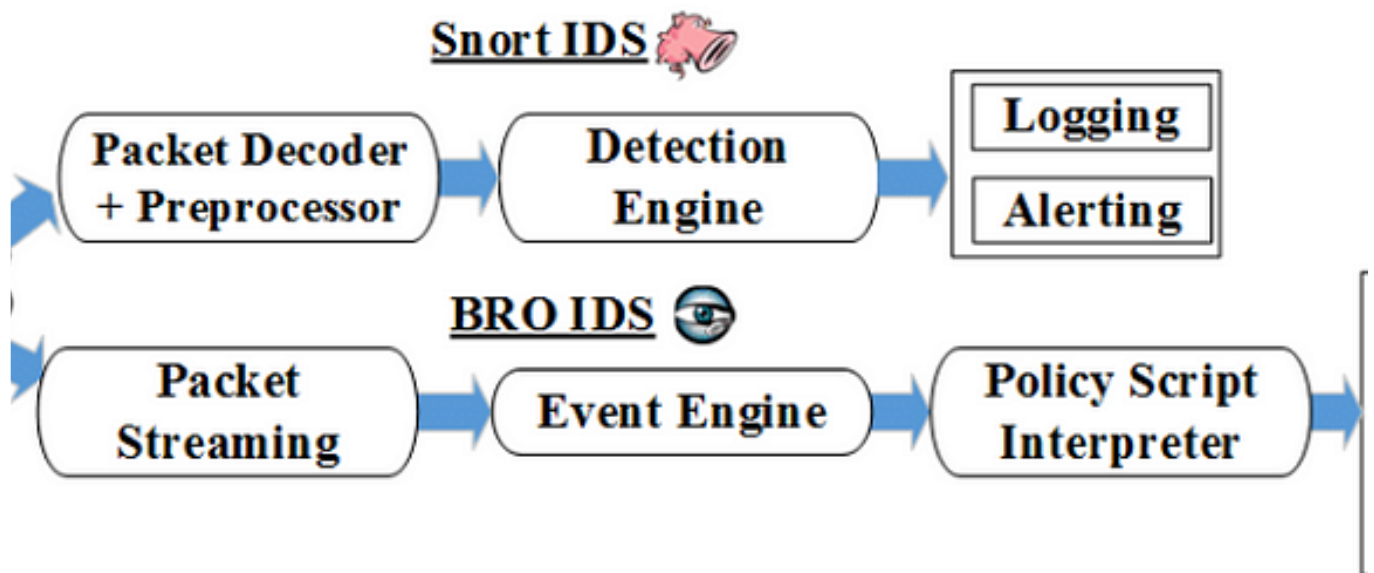
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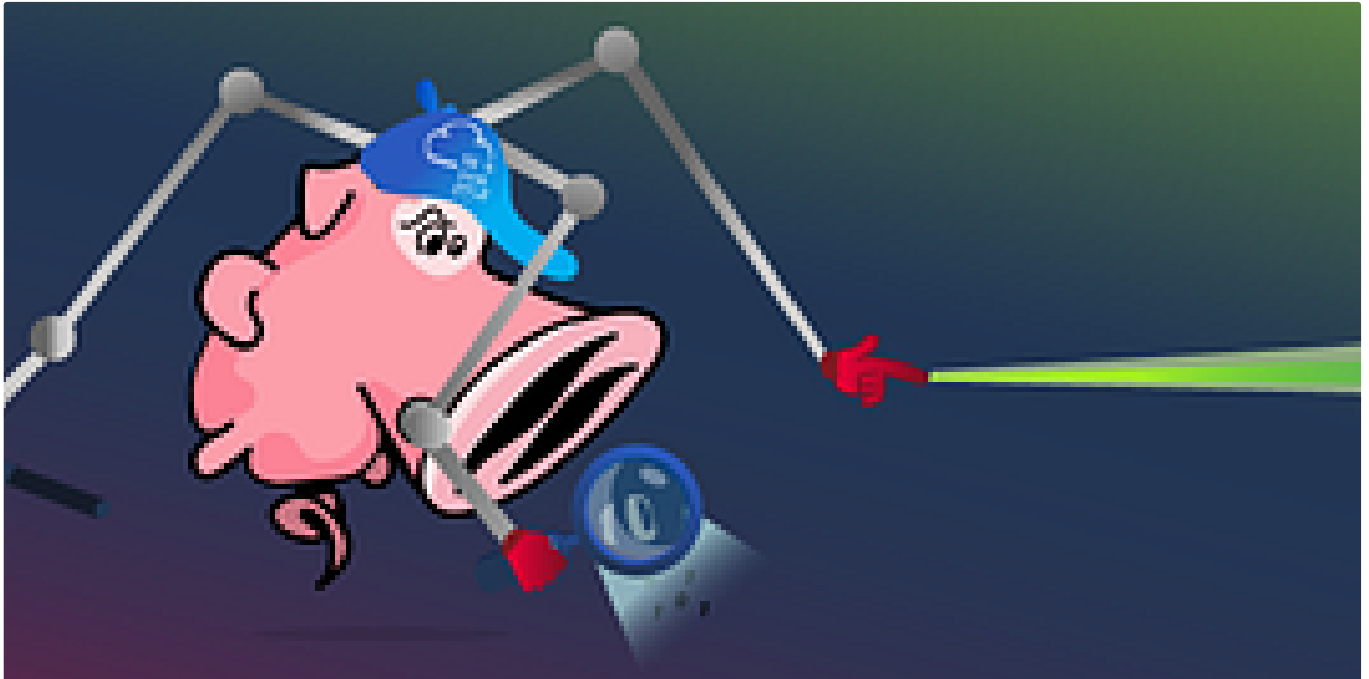
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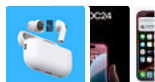
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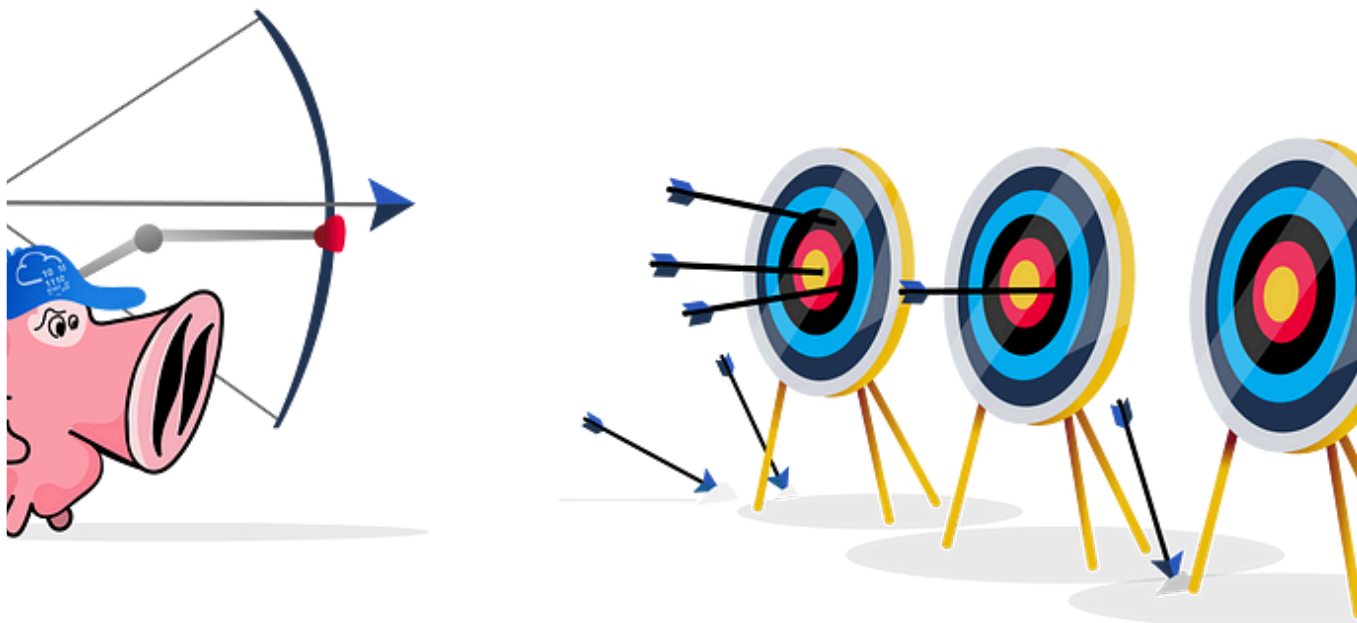
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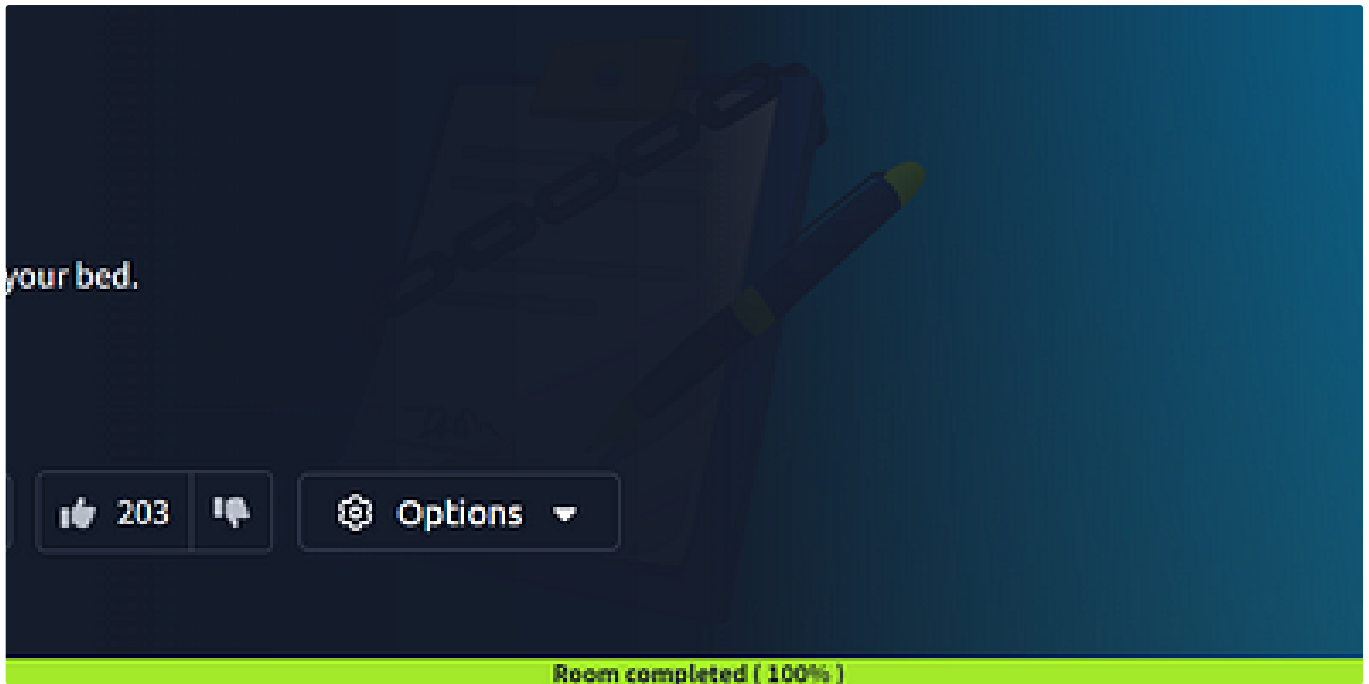
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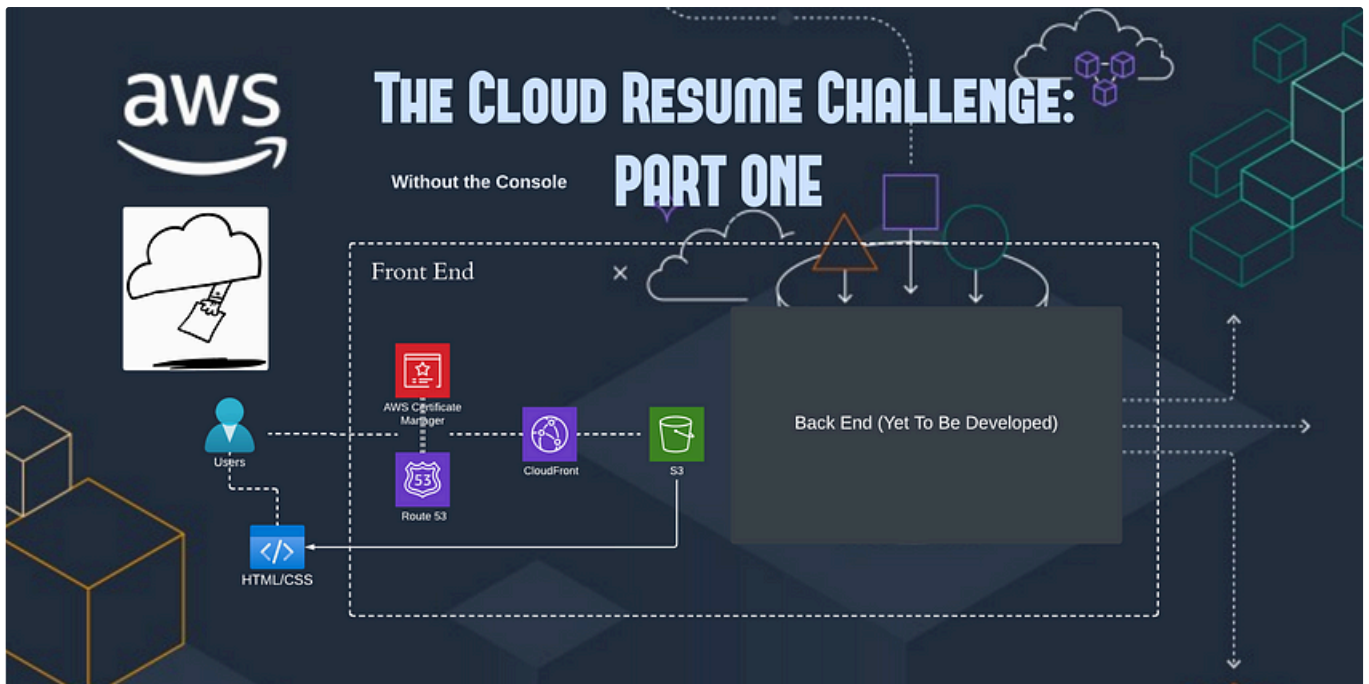
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