

Don't search for your adversary, let them come to you

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## Introduction

- We are constantly trying to detect malicious activity. Living off the land techniques make this very difficult.
- So why look for adversaries when they can come to you?
- Honeypots are not new. Now called "deception technology" because honeypots didn't sound cool enough.
- This talk will explore cheap and easy ways to get started.



# Cyber adversaries

Adversary type	Motivation	Target
Cybercriminals (Organised Crime)	Financial Gain	Anyone
Nation-State Actors (APT Groups)	Espionage, Political Advantage, Sabotage, Military/Strategic Advantage	Government, government contractors, critical infrastructure, high-tech research
Hacktivists	Protest	Government, controversial organisations
Malicious Insider	Revenge, Financial Gain, or Intellectual Property	Current employer
Competitors	Intellectual Property	Competitors



# Honeypots

#### **Not new**

- First mentioned in 1980's
- The Honeynet Project (1999)
- Evolution in broader deception technologies
- Lots of options
  - Server, network honeypots
  - Low interaction, high interaction
  - Honeytokens





## **Honeypot Strategies**

- Focus on your most valuable assets
- Focus on who wants them and most likely to get them
- Build honeypot to attract them





## **Cybercriminals**

- Will briefly look around network then cryptolocker it
- Honeypots unlikely to help





## **Nation-State Actors**

- Will look have detailed look at network
- Common honeypots will be identified
- Honeytokens best and easy option
- Create a SECRET or CONFIDENTIAL folder and alert when its accessed





## **Hacktivists**

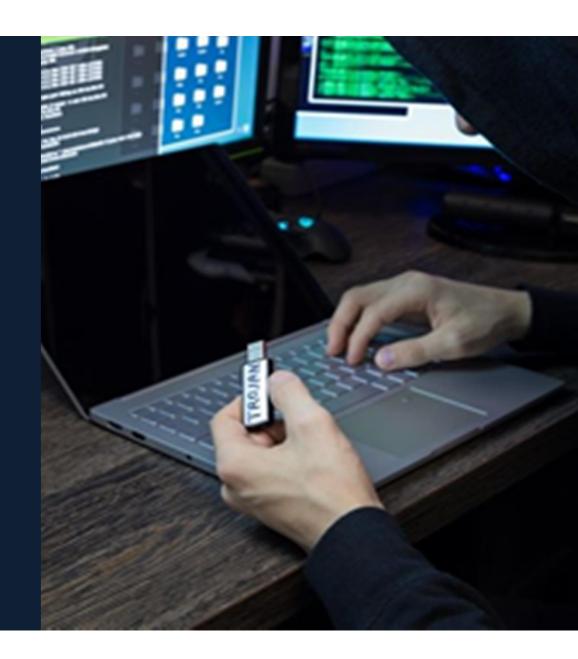
- Will have detailed look at network
- Common honeypots won't be identified
- Honeytokens best and easy option
- Create a SECRET or CONFIDENTIAL folder and alert when its accessed





## Malicious Insider

- Will have detailed look at network
- Common honeypots won't be identified
- Honeytokens best and easy option
- Create a SECRET or CONFIDENTIAL folder and alert when its accessed





## Competitors

- Will have detailed look at network
- Common honeypots won't be identified
- Honeytokens best and easy option
- Create a SECRET or CONFIDENTIAL folder and alert when its accessed





## How?

#### Keep it simple

- Set a trap with something desirable
- Use a honeytoken
- Create a folder or file labeled SECRET or CONFIDENTIAL and fire an alert when its accessed

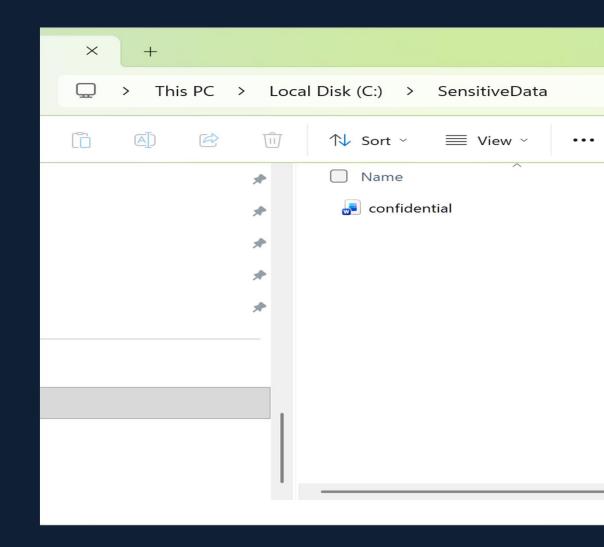




## **Example**

#### Create a honeytoken

 Create a SECRET or CONFIDENTIAL folder





## Example

#### Create an alert

Create an alert when its accessed

```
let targetFile = @"C:\SensitiveData\confidential.docx";

DeviceFileEvents

| where Timestamp > ago(7d) // Search last 7 days

| where ActionType == "FileAccessed" // Only file access events

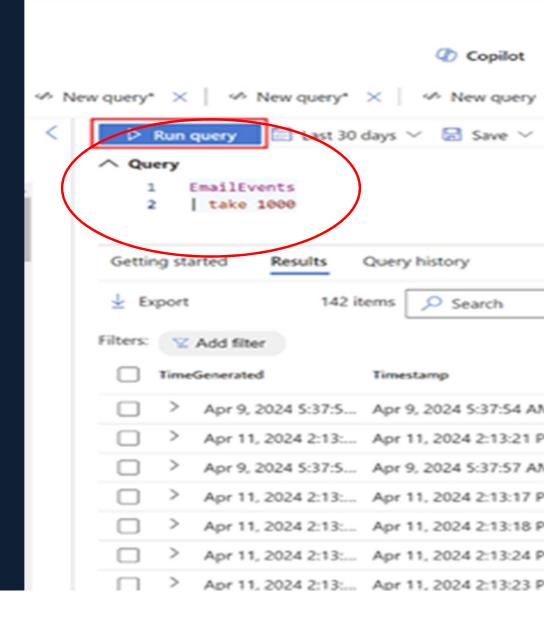
| where FileName == "confidential.docx"

or FolderPath =~ targetFile

| project Timestamp, DeviceName, InitiatingProcessAccountName, FolderPath, FileName, InitiatingProcessFileName, ReportId

| order by Timestamp desc
```

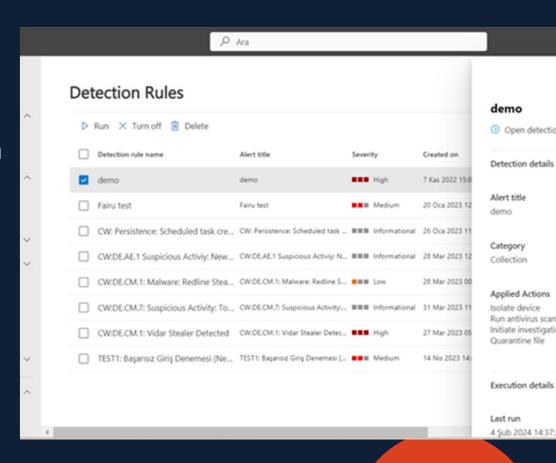




## Example

#### **Setup alert**

 Setup up a KQL alert to trigger when its accessed.





# Thank you.