# Blue Team Level 1 Certification PA6) Taking Defensive Actions 12 Topics | 1 Quiz PA7) Report Writing 7 Topics | 1 Quiz PA8) Phishing Response Challenge 3 Topics | 1 Quiz THREAT INTELLIGENCE DOMAIN TI1) Introduction to Threat Intelligence 7 Topics O TI2) Threat Actors & APTs 6 Topics | 2 Quizzes O Section Introduction, Actors O Common Threat Agents O Motivations O Actor Naming Conventions O What are APTs? O Tools, Techniques, Procedures Activity) Threat Actor Research Activity) End of Section Review, Actors TI3) Operational Threat Intelligence 7 Topics | 1 Quiz TI4) Tactical Threat Intelligence 7 Topics | 1 Quiz TI5) Strategic Threat Intelligence 5 Topics | 1 Quiz TI6) Malware and Global Campaigns 6 Topics | 1 Quiz DIGITAL FORENSICS DOMAIN DF1) Introduction to Digital Forensics 5 Topics DF2) Forensics Fundamentals ■ 10 Topics | 5 Ouizzes OF3) Digital Evidence Collection 8 Topics | 1 Quiz DF4) Windows Investigations 3 Topics 3 Ouizzes O DF5) Linux Investigations 4 Topics | 2 Quizzes O DF6) Volatility 3 Topics | 1 Quiz O DF7) Autopsy 4 Topics | 1 Ouiz SECURITY INFORMATION AND EVENT MANAGEMENT DOMAIN SI1) Introduction to SIEM 7 Topics | 1 Quiz SI2) Logging 6 Topics | 2 Quizzes

SI3) Aggregation 2 Topics | 1 Quiz

# **Tools, Techniques, Procedures**

Blue Team Level 1 Certification (Standard) > TI2) Threat Actors & APTs > Tools, Techniques, Pro... IN PROGRESS

**Threat Intelligence TOOLS, TECHNIQUES, PROCEDURES** 

Known as "Tools, Techniques and Procedures", or "Tactics, Techniques and Procedures".

TTPs are the actions that threat actors take when conducting cyber attacks. They're used by defenders to track the tactics that different threat groups use, and lets us gather intelligence to aid security operations teams. By understanding how malicious actors perform attacks, we can implement defenses to stop or slow them down.

MITRE's ATT&CK Framework has over 260 different techniques mapped and split into 12 different categories:

- Initial Access
- Execution
- Persistence
- Privilege Escalation
- Defense Evasion
- Credential Access
- Discovery
- Lateral Movement
- Collection
- · Command and Control
- Exfiltration

## **EXAMPLE ONE**

 $Let's\ go\ through\ an\ example.\ If\ security\ analysts\ at\ Organization\ A\ discover\ a\ script\ that\ is\ exfiltrating\ data,\ this\ will\ be a property of the property$ be mapped to a TTP. In this case, it is T1020. Now the security analysts and incident response team can use this to work backwards, identifying how the attackers gained initial access and conducted other activities such as privilege escalation and lateral movement. All of this information can be mapped as an attack path, and used to fully understand cyber attacks, how successful cyber attacks have occurred, and how to prevent a similar attack in the

 $Each \, TTP \, in \, the \, MITRE \, ATT\&CK \, Framework \, also \, has \, mitigations \, and \, detection \, advice. \, If \, we \, look \, at \, this \, information \, and \, continuous \, and \, continuous \, also \, have \, also \, have a continuous \, and \, con$ for T1020, we're provided with the following:

### Mitigations

nnot be easily mitigated with preventive controls since it is based on the abuse of system features

Monitor process file access patterns and network behavior. Unrecognized processes or scripts that appear to be traversing file systems and sending network

Over time, defenders are able to build up attack paths for different incidents, and this process can potentially provide attribution for certain groups. If security analysts at Organization A observe a threat actor following a specific TTP path, they can see if any known APTs follow the same or a similar path, and then to a reasonable degree can attribute that group to the observed attack. The organization can then start implementing defenses against other tactics and malware this group uses as a proactive measure.

SI4) Correlation
6 Topics   1 Quiz
SI5) Using Splunk
5 Topics   2 Quizzes
INCIDENT RESPONSE DOMAIN
IR1) Introduction to Incident Response
8 Topics   1 Quiz
IR2) Preparation Phase
■ 10 Topics   2 Quizzes
IR3) Detection and Analysis Phase
7 Topics   4 Quizzes
IR4) Containment, Eradication, and Recovery Phase
5 Topics   1 Quiz
IR5) Lessons Learned and Reporting
7 Topics
O IDALMITDE ATTCCV

13 Topics | 2 Quizzes

# **PROACTIVE DEFENSE**

Instead of waiting for attacks to happen and recording the TTPs that were used, security teams could take a proactive approach and go through different TTPs looking to see if the organization has appropriate security controls and monitoring capabilities to detect and stop attackers using these known techniques. Penetration tests could be conducted with specific attack paths to see if they are effective, or if the company's defenses work to detect and defend against them. MITRE has a page dedicated to listing the TTPs used by certain threat groups (https://attack.mitre.org/groups/) so if an organization determined that APT30 is likely to get them, they could go through APT30's TTPs and ensure that defenses and monitoring capabilities are put in place.

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