

## Exam Objectives that do NOT Exist in Security+ SY0-401 but ARE in SY0-501

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OBJ/Sub-OBJ

NEW in 501

### 1.0 Threats, Attacks and Vulnerabilities

1.1 Given a scenario, analyze indicators of compromise and determine the type of malware.

- **Crypto-malware** NEW
- **Keylogger** NEW
- **RAT** NEW

1.2 Compare and contrast types of attacks.

- **Application/service attacks**
  - o Amplification NEW
  - o Domain hijacking NEW
  - o Man-in-the-browser NEW
  - o Pass the hash NEW
    - § Shimming NEW
    - § Refactoring NEW
- **Wireless attacks**
  - o RFID NEW
  - o NFC NEW
  - o Disassociation NEW
- **Cryptographic attacks**
  - o Known plain text/cipher text NEW
- **Online vs. offline** \*Offline = NEW
  - o Collision NEW
  - o Downgrade NEW
  - o Weak implementations NEW

1.3 Explain threat actor types and attributes.

- **Types of actors**

|   |     |
|---|-----|
| o Script kiddies  | NEW |
| o Hactivist   | NEW |
| o Organized crime   | NEW |
| o Nation states/APT   | NEW |
| o Competitors   | NEW |
| • <b>Attributes of actors</b>   |     |
| o Internal/external   | NEW |
| o Level of sophistication   | NEW |
| o Resources/funding   | NEW |
| o Intent/motivation   | NEW |
| • <b>Use of open-source intelligence</b>                                | NEW |
| <b>1.4 Explain penetration testing concepts.</b>                        |     |
| • Passive reconnaissance  | NEW |
| • Pivot   | NEW |
| • Persistence   | NEW |
| <b>1.6 Explain the impact associated with types of vulnerabilities.</b> |     |
| • Race conditions   | NEW |
| • Vulnerabilities due to:   |     |
| o End-of-life systems   | NEW |
| • Improper input handling   | NEW |
| • Improper error handling   | NEW |
| • Resource exhaustion   | NEW |
| • Untrained users   | NEW |
| • Vulnerable business processes   | NEW |
| • Memory/buffer vulnerability   |     |
| o Memory leak   | NEW |
| o Pointer dereference   | NEW |
| o DLL injection   | NEW |
| • System sprawl/undocumented assets                                     | NEW |