

filename:comptia-secplussy0601-9-6-1-pentesting-exercise-types

Showname: Security+ (SY0-601)

Topic: Operational Security and Incident Response

Episode: Pentesting Exercise Types

Learner Objectives:

Identify the techniques used in penetration testing

Description: In this episode, the viewer will identify the techniques used in penetration exercise types commonly known as red, blue, purple and white team exercises.

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- Exercise types
 - Red-team
 - Offensive Security
 - Testing defense mechanism and resiliency to external attacks
 - Test/improves the capabilities of the defense mechanisms
 - Identify and exploit vulnerabilities
 - Physical, hardware, software and human vulnerabilities
 - Help address and fix identified security vulnerabilities
 - Typically not part of the company
 - Skill examples
 - computer systems and protocols
 - software development skills
 - penetration testing
 - Communication interception
 - Social engineering skills
 - Attack frameworks (MITRE ATT&CK)
 - Blue-team
 - Defensive security

- Identify potential vulnerabilities
- But instead of exploiting the vulnerabilities, they seek to avoid, deter, resist and respond to threats
- Think of it as monitoring, detection and reaction (what countermeasure needs to be in place or upgrade, reconfigured)
- Detect block mitigate
- Usually part of the company
- IDS, IPS, packet analysis, log/packet aggregation
- EDR (endpoint detection and response)
- Honey-pots
- Skill examples
 - Security strategy
 - Analysis skills
 - Hardening techniques
 - System detection tools
- Red-team/blue-team discussions
 - Red-team discusses the attack methods used, actions taken
 - Blue-team can use this information to evaluate and prioritize changes to prevent another similar attack from being successful.
 - Lack of sharing information of attack techniques and tools gave rise to the “purple team”
- Purple-team
 - Red and blue teams working in unison
 - Both teams fully debrief each other
 - Both teams sharing information like
 - Attack techniques
 - Attack tools
 - Findings and outcomes
- White-team
 - Responsible for refereeing the red team/blue team engagement
 - Observes the exercise
 - Scores the exercise

- Resolve disputes between the red/blue team
- The judges of that enforce the RoE
- Derive the lessons-learned
- Accurate post-exercise/engagement assessment