Linux Based Security+, Skill Labs

Course Specifications

Course Number: ACI76-055SL_rev1.0
Lab Length: Approximately 14 hours

Configuring a VPN Tunnel Using pfSense

Configure a secure VPN tunnel using pfSense to protect network communications and enable secure remote access.

Comparing Clear Text and Encrypted Protocols

Analyze the risks of clear-text protocols and compare them to encrypted alternatives to understand secure data transmission.

Linux Attack and Response

Analyze common attacks against Linux systems and apply response techniques to detect and mitigate threats.

Log Analysis of Linux Systems with Grep and Gawk

Analyze Linux system logs using command-line tools to identify suspicious activity and support incident investigations.

Attacking and Defending Linux Systems

Simulate attacks against Linux systems and apply defensive controls to strengthen system security.

Cracking Passwords on Linux Systems

Analyze password cracking techniques to understand authentication weaknesses and improve password security policies.

Identifying and Analyzing Host Intrusion Detection Alerts

Analyze host-based intrusion detection system alerts to identify malicious activity on Linux systems.

Exploiting Shellshock

Examine the Shellshock vulnerability to understand command injection risks and apply mitigation strategies.

Vulnerability Scanning of a Linux Target

Perform vulnerability scans against Linux systems to identify weaknesses and prioritize remediation efforts.

Encrypting Data Using TrueCrypt

Implement data encryption using disk encryption tools and analyze methods used to attack encrypted data.

Injection Attacks Using WebGoat

Analyze common injection attacks against web applications to understand exploitation techniques and defenses.

Managing Permissions, Users, and Groups in Linux

Configure Linux permissions, users, and groups to enforce access control and system security.

Creating a Proxy Server and SSL Certificate Using pfSense

Configure a proxy server and deploy SSL certificates to secure network traffic and web communications.

Steganography

Analyze steganography techniques to understand how data can be hidden within files and detect covert data channels.