

The Challenge Labs Cybersecurity Library is a 180-day subscription that includes access to over 75 Challenge Labs related to various security topics.

Challenge Labs are goal oriented, short-duration, scenario-based hands-on exercises, and an excellent way to provide additional skills development and assessment.

As new Challenge Labs are released, you will gain automatic access to them for the duration of your subscription.

### Audience

- IT Professionals who are looking to keep up to date on features and functionality for a particular technology
- IT Professionals who are responsible for supporting multiple technologies
- IT Professional/Developers who are preparing for vendor certification exams

### Challenge Labs Topics

#### Cybersecurity: Offensive Tools

SEC-OT-000	Getting Started with Cybersecurity Offensive Tools [Getting Started]
SEC-OT-001	Identify Attack Types [Guided]
SEC-OT-002	Use Tcpdump to Intercept Network Traffic [Guided]
SEC-OT-003	Can You Use Wireshark to Intercept Network Traffic? [Advanced]
SEC-OT-004	Identify Standard Security Practices [Guided]
SEC-OT-005	Use a Password Cracking Utility in Linux [Guided]
SEC-OT-006	Can You Use PowerShell to Gather Computer Information in Windows? [Advanced]
SEC-OT-007	Use Banner Grabbing Techniques to Enumerate Services on a Linux Server [Guided]
SEC-OT-008	Escalate Privileges in Linux [Guided]
SEC-OT-009	Can You Enumerate Network Services by Using Port Scanning in Linux? [Advanced]
SEC-OT-010	Can You Discover Network Services by Using Nmap? [Expert]

#### Cybersecurity: Defensive Tools

SEC-DT-000	Getting Started with Cybersecurity Defensive Tools [Getting Started]
SEC-DT-001	Identify Tools and Practices for Security Configurations [Guided]
SEC-DT-002	Managing Log Files on a Windows Server [Guided]
SEC-DT-003	Can You Configure Alerts and Archiving for Log Files in Linux? [Advanced]
SEC-DT-004	Configure Windows Defender on a Windows System [Guided]
SEC-DT-005	Configure a Local Security Policy on Windows Server 2016 [Guided]
SEC-DT-006	Can You Use the Sysinternals Suite to Review Permissions on a Windows System? [Advanced]
SEC-DT-007	Identify Use Case for Asymmetric and Symmetric Encryption and Hash Cryptography [Guided]

- SEC-DT-008 Using Encryption to Secure Information [Guided]
- SEC-DT-009 Can You Configure Drive Encryption by Using LUKS and BitLocker? [Advanced]
- SEC-DT-010 Can You Configure Remote Administration by Using Putty and SSH? [Expert]

## Cybersecurity: Tools and Access Management

- SEC-1-000 Getting Started with Security and Permissions [Getting Started]
- SEC-1-001 Test and Mitigate Default Port Vulnerabilities in Linux [Guided]
- SEC-1-002 Configure SSH to Connect Without Passwords [Guided]
- SEC-1-003 Can You Harden the SSH Service on a Linux Server? [Advanced]
- SEC-1-004 Force Users to Change Password Upon First Sign In [Guided]
- SEC-1-005 Remove a User Account [Guided]
- SEC-1-006 Can You Add Server Access for a Group? [Advanced]
- SEC-1-007 Examine Log Files to Block Bad Actors [Guided]
- SEC-1-008 Harden a Server by Limiting Access to a Single Subnet [Guided]
- SEC-1-009 Can You Harden a Server By Restricting Access Per Protocol? [Advanced]
- SEC-1-010 Can You Harden a Linux Web Server? [Expert]

## Cybersecurity: PKI Essentials

- SEC-2-001 Deploy a Private Certificate Authority [Guided]
- SEC-2-002 Configure Custom Certificate Templates and Deployment Options [Guided]
- SEC-2-003 Manually Request a PKI Certificate [Guided]
- SEC-2-004 Can You Deploy a Certificate Authority and Issue Certificates? [Advanced]
- SEC-2-005 Enable DNSSEC [Guided]
- SEC-2-006 Use EFS to Encrypt Files on NTFS Volumes [Guided]
- SEC-2-007 Can You Secure DNS Resource Records and Windows NTFS Volume File Objects? [Advanced]
- SEC-2-008 Enable SSL/TLS on a Website [Guided]
- SEC-2-009 Enable Client SSL/TLS [Guided]
- SEC2-010 Can You Secure a Website with an SSL/TLS Certificate? [Advanced]
- SEC-2-011 Can You Use PKI To Secure a Network Environment? [Expert]

## Cybersecurity: Technology and Tools

- SEC-3-000 Getting Started with Security Concepts in Windows and Linux Environments [Getting Started]
- SEC-3-001 Configure Windows Firewall ACL Rules [Guided]
- SEC-3-002 Configure Linux Firewall ACL Rules [Guided]
- SEC-3-003 Configure Security Settings by Using Microsoft Group Policy [Guided]
- SEC-3-004 Identify Non-secure Network Traffic [Guided]

SEC-3-005	Can You Secure Host Settings Through Firewall Settings and Group Policy? [Advanced]
SEC-3-006	Run a Network Scan Using Nmap [Guided]
SEC-3-007	Configure IPSec [Guided]
SEC-3-008	Configure a Windows PPTP VPN [Guided]
SEC-3-009	Can You Secure Network Access? [Advanced]
SEC-3-010	Can You Harden Windows Hosts? [Expert]

### Cybersecurity: Account Management Practices

CS3-000	Getting Started with Managing Access in Linux and Windows [Getting Started]
CS3-001	Manage Users and Groups in Linux [Guided]
CS3-002	Manage Users and Groups in Windows [Guided]
CS3-003	Can You Manage Users and Groups Windows and Linux? [Advanced]
CS3-004	Configure Password Management in Windows [Guided]
CS3-005	Configure Password Management in Linux [Guided]
CS3-006	Can You Manage Password Requirements in Windows and Linux? [Advanced]
CS3-007	Configure Standard Linux Permissions [Guided]
CS3-008	Configure Standard Windows Permissions [Guided]
CS3-009	Can You Configure Standard Linux and Windows Permissions? [Advanced]
CS3-010	Can You Manage Access in Linux and Windows? [Expert]

### Cybersecurity: Secure Systems Management

CS4-000	Getting Started with Managing Linux and Windows Systems [Getting Started]
CS4-001	Backup and Restore Data in Linux [Guided]
CS4-002	Backup and Restore Data in Windows [Guided]
CS4-003	Can You Back Up and Restore Data in Windows and Linux? [Advanced]
CS4-004	Configure and Test the Firewall in Linux [Guided]
CS4-005	Configure and Test the Firewall in Windows [Guided]
CS4-006	Can You Configure the Firewall in Linux and Windows? [Advanced]
CS4-007	Configure Patch Management in Linux [Guided]
CS4-008	Configure Update Management in Windows [Guided]
CS4-009	Can You Configure Update Management in Linux and Windows? [Advanced]
CS4-010	Can You Manage Windows and Linux Systems? [Expert]