

A man with a beard and mustache, wearing a purple long-sleeved shirt, is sitting at a desk in an office. He is looking at a laptop screen and has his hands on the keyboard. The background is slightly blurred, showing office equipment and another person's shoulder. A semi-transparent purple and yellow banner is overlaid across the middle of the image, containing the text.

CISSP - Certified Information Systems Security Professional



Practice Labs™

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Lab Outline

The CISSP Practice Lab will provide you with the necessary platform to gain hands on skills in security.

By completing the lab tasks you will improve your practical skills in Security and Risk Management, Asset Security, Security Engineering, Communications and Network Security, Identity and Access Management, Security Assessment and Testing, Security Operations and Software Development Security.

These same tasks will help you understand the objectives and competencies required by the (ISC)² CISSP certification exam.

Outcomes

After completing this Practice Lab, students will be able to:

- Use encryption and hashing
- Create and import configuration item for compliance and deploy a new baseline
- Implement OpenPGP email
- Apply two factor authentication with SSH
- Implement SSL VPN with an ASA firewall
- Configure IPtables
- Configure traffic filtering ACL's for IPv4 and IPv6
- Use Windows Command line
- Deploy endpoint protection
- Apply Bitlocker to portable media
- Manage remote desktop sessions
- Implement and manage role based security
- Configure Microsoft Baseline Security Analyser
- Perform compliance patching
- Perform passive topology discovery
- Use OpenVAS to scan and remediate vulnerabilities
- User Microsoft Hyper Visor to install Kali Linux
- Perform and backup and recovery
- Upgrade and secure an SSH connection
- Install and write rules for Snort
- Configure and Secure Internet Information Services
- Perform a manual SQL injection and password cracking attack

📄 Course Code
ISC2-CISSP

📊 Skill Level
Advanced

📅 Released
Jun 2017

🕒 Duration
25 hours

Prerequisites

It is recommended that you have gained the following certification before attempting the (ISC)² CISSP exam:

- A minimum of 5 years cumulative work experience in 2 or more of the 8 domains of the CISSP CBK.
- A 4-year college degree or regional equivalent or an additional credential from the (ISC)² approved list will waive 1 year of the required experience.

No prior hands-on experience is required to use or complete this Practice Lab.

Who is it For?

The CISSP certificate has been aimed at (but not limited to) those working in the following positions: Security Consultants, Security Managers, IT Director/Managers, Security Auditors, Security Architects, Security Analyst, Security Systems Engineer, Chief Information Security Officer, Director of Security and Network Architects.

Additional Info

Our CISSP Practice Lab has been designed to provide you with practical examples that can be applied alongside reference books and materials. The CISSP exam is heavily theory driven and vendor neutral, which effectively means it doesn't specify any particular tool or operating system, rather it considers best practice and details numerous techniques which should be considered within an information technology environment towards data protection.

It is strongly recommended that you use these labs as a supplement alongside (and not limited to) a training course and/or books and reference materials.

The aim of this Practice Lab is to reinforce and complement learning and development and to highlight some key aspects of security practices to assist the learner with their revision towards their exam.

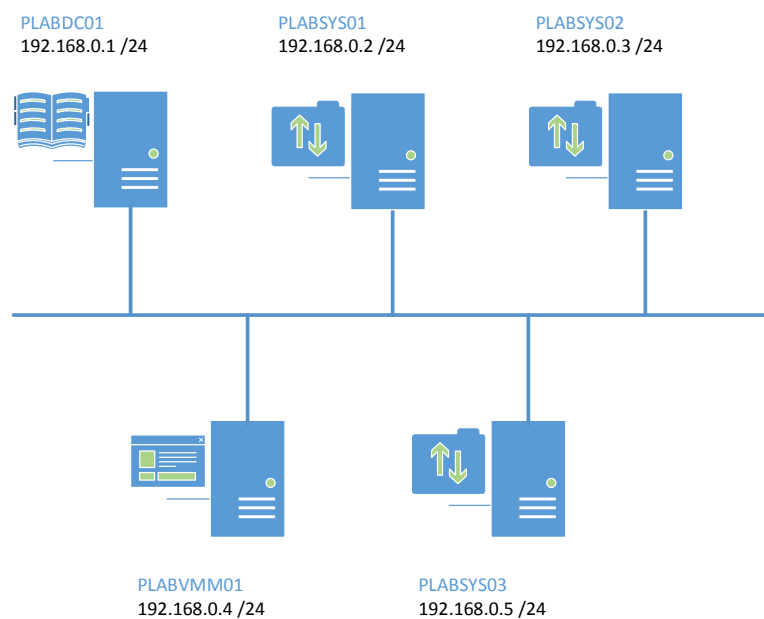
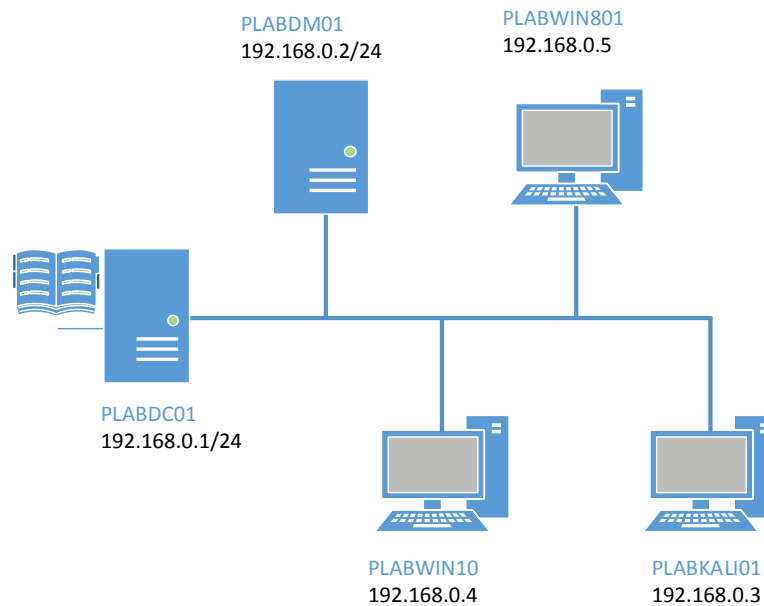
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Lab Topologies

You will also have access to the following topologies:



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Modules and Exercises

Introduction to CISSP

- Introduction
- Supporting Lab Material - The 8 Domains of CISSP
- Summary

Security and Risk Management

- Introduction
- Supporting Lab Material - Security and Risk Management Part 1
- Supporting Lab Material - Security and Risk Management Part 2
- Summary

Encryption and Hashing

- Introduction
- Exercise 1 - Cryptographic Basics
- Exercise 2 - Comparing Hashing Algorithms
- Exercise 3 - Comparing Hash Values
- Summary

Configuration Items and Baselines

- Introduction
- Exercise 1 - Create Windows Configuration Items for Compliance Settings
- Exercise 2 - Create Configuration Baseline and Deploy the Baseline
- Exercise 3 - Import Configuration Data in SCCM 2012
- Summary

Implement OpenPGP

- Introduction
- Exercise 1 - Installation of OpenPGP
- Exercise 2 - OpenPGP Certificate Creation and Distribution
- Exercise 3 - OpenPGP Signing and Importation
- Exercise 4 - OpenPGP Verification, Encryption and Decryption
- Summary

Two factor Authentication with SSH

- Introduction
- Exercise 1 - Connecting to Kali
- Exercise 2 - Configure Google Authenticator
- Summary

Implement SSL VPN using ASA Device Manager

- Introduction
- Exercise 1 - Implement a Clientless SSL VPN using the Cisco ASA Device Manager
- Exercise 2 - Implement AnyConnect using the Cisco ASA Device Manager
- Summary

Configure and Verify IPv4 and IPv6 Access Lists for Traffic Filtering

- Introduction
- Exercise 1 - Configuring Standard and Extended Access Lists using IPv4
- Exercise 2 - Configuring Named Access Lists Using IPv4
- Exercise 3 - Creating Access-Lists in IPv6
- Summary

Configuring IPtables

- Introduction
- Exercise 1 - Configuring IPtables
- Summary

Windows Command Line Tools

- Introduction
- Exercise 1 - IPconfig
- Exercise 2 - Netstat
- Exercise 3 - Ping
- Exercise 4 - Tracert and Route
- Exercise 5 - ARP and Whoami
- Summary

Administering and Deploying Endpoint Protection

- Introduction
- Exercise 1 - Installing an Endpoint Protection Site System Role
- Exercise 2 - Configure Definition Updates for Endpoint Protection
- Exercise 3 - Create and Deploy Antimalware Policies for Endpoint Protection
- Exercise 4 - Configure Custom Client Settings for Endpoint Protection
- Exercise 5 - Provision Endpoint Protection
- Summary

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Bitlocker on Portable Media

- Introduction
- Exercise 1 - Configure Bitlocker on Portable Media
- Summary

Managing Remote Desktop

- Introduction
- Exercise 1 - Working with RDP
- Exercise 2 - Administering Windows with PowerShell Remoting
- Summary

Manage Role-based Security

- Introduction
- Exercise 1 - Manage Role-based Security
- Summary

Configuration Scanner MBSA

- Introduction
- Exercise 1 - Introduction to Microsoft Baseline Security Analyser
- Exercise 2 - Implementing Recommendations
- Exercise 3 - Saving Microsoft Security Baseline Analyzer Reports
- Exercise 4 - Reviewing Configuration Changes
- Summary

Compliance Patching

- Introduction
- Exercise 1 - Install and Configure WSUS
- Exercise 2 - WSUS Server Certificates Security
- Exercise 3 - Create Computer Groups for WSUS
- Exercise 4 - Configure GPO Policy for WSUS
- Summary

Passive Topology Discovery

- Introduction
- Exercise 1 - Packet Capture with Wireshark
- Exercise 2 - Output Logs
- Exercise 3 - Packet Analysis Part 1
- Exercise 4 - Packet Analysis Part 2
- Summary

Scanning and Remediating Vulnerabilities with OpenVAS

- Introduction
- Exercise 1 - Connecting to Kali
- Exercise 2 - OpenVAS Scanning
- Exercise 3 - Securing Active Directory Access LDAP
- Exercise 4 - Validating Security Changes with OpenVAS
- Summary

Installing Kali

- Introduction
- Exercise 1 - Installing Kali to Hyper-V
- Summary

Implement Backup and Recovery

- Introduction
- Exercise 1 - View Disk allocation Information to Review Storage Pool Data
- Exercise 2 - Create a Protection Group, Add Members and Client Computers to a Protection Group
- Summary

Installation and Verification of Snort

- Introduction
- Exercise 1 - Installation of Assistance Programs
- Exercise 2 - Configuring Snort
- Exercise 3 - Snort Verification and Results
- Summary

Configuring and Securing IIS

- Introduction
- Exercise 1 - IIS Setup
- Exercise 2 - IIS Platform Tour
- Exercise 3 - Inetpub Configuration
- Exercise 4 - IIS Configuration and Security Practices
- Summary

Upgrading and Securing SSH Connection

- Introduction
- Exercise 1 - Connecting to Kali
- Exercise 2 - Upgrading OpenSSH
- Exercise 3 - Adding Sudo User
- Exercise 4 - Regenerate SSH Keys to Avoid MITM Attacks
- Exercise 5 - Change the MOTD (Message of the Day)
- Exercise 6 - Change the SSH Port for Safety
- Summary

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DVWA - Manual SQL Injection and Password Cracking

Introduction

Exercise 1 - DVWA Usage

Exercise 2 - Performing an SQL Injection Attack

Exercise 3 - Password Cracking with John

Summary