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# CURSO DE SEGURIDAD INFORMÁTICA

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TI



**INVERSIÓN**  
\$5,829.00 + IVA

**DURACIÓN**  
90 HRS.

**MODALIDAD**  
En Linea

# CURSO DE SEGURIDAD INFORMÁTICA

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## OBJETIVO

El curso de Seguridad Informática TestOut Security Pro prepara a los estudiantes para el examen de certificación TestOut Security Pro y el examen de certificación CompTIA Security + SY0-401. Los estudiantes aprenden cómo proteger una red corporativa usando un modelo de seguridad en capas.

## DIRIGIDO A

Este curso de Seguridad Informática va dirigido a toda persona que quiera obtener la certificación CompTIA Security+ SY0-401 o que busque convertirse en un especialista en seguridad, para desempeñar mejor sus funciones como administrador o encargado de sistemas de TI.



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## BENEFICIOS

### Aprobado por CompTIA

TestOut Security Pro posee contenido de calidad aprobado por CompTIA y se ha verificado que cubre el 100 % de los objetivos del examen de certificación CompTIA Security+ SY0-401.

### Simulaciones de la vida real

LabSim imita \$35 000 USD en hardware y software informático y desafía a los estudiantes con escenarios del mundo real. Los estudiantes que completan el curso están preparados con el conocimiento y las habilidades que necesitan para ser un exitoso administrador de seguridad de TI.

### Enfoque de seguridad en capas

TestOut Security Pro enseña a los estudiantes cómo proteger correctamente una red usando un modelo de seguridad en capas. Los estudiantes aprenden y luego construyen una red segura, comenzando por medidas de seguridad física y progresando hasta las defensas de datos, al igual que harían en el trabajo.

### Múltiples sistemas operativos

Durante el curso, los estudiantes adquieren experiencia con múltiples sistemas operativos e interfaces como Windows 7 Ultimate, Windows Server 2012 R2 Datacenter, iOS, Cisco CLI (enrutadores y conmutadores), Cisco Net Security Appliance y Linux CLI.

### Exámenes ilimitados de práctica de certificación

TestOut Security Pro incluye exámenes de práctica para el examen de certificación TestOut Security Pro y el examen de certificación CompTIA Security+ SY0-401. Los estudiantes pueden adquirir confianza y habilidades de prueba al practicar todas las veces que lo deseen.

## TEMARIO



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## I. INTRODUCTION

### a. Security Overview

- i. Security Challenges (8:22)
- ii. Security Roles and Concepts (5:37)
- iii. Threat Agent Types (8:20)
- iv. Security Introduction
- v. General Attack Strategy (8:51)
- vi. General Defense Strategy (18:25)
- vii. Attack and Defense Strategy Overview
- viii. Practice Questions - Section 1.1

### b. Using the Simulator

- i. Using the Simulator (13:19)
- ii. Configure a Security Appliance
- iii. Install a Security Appliance

## II. ACCESS CONTROL AND IDENTITY MANAGEMENT

### a. Access Control Models

- i. Access Control Models (3:38)
- ii. Access Control Facts
- iii. Access Control Model Facts
- iv. Access Control Model Examples
- v. Implementing Discretionary Access Control (6:09)
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### b. Authentication

- i. Authentication Part 1 (11:26)
- ii. Authentication Part 2 (8:53)
- iii. Authentication Facts
- iv. Using a Biometric Scanner (3:49)
- v. Using Single Sign-on (12:20)



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- vi. Single Sign-on Facts
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**c. Authorization**

- i. Authorization (5:15)
- ii. Cumulative Access (9:32)
- iii. Authorization Facts
- iv. Examining the Access Token (9:08)
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**d. Access Control Best Practices**

- i. Access Control Best Practices (3:12)
- ii. Viewing Implicit Deny (10:13)
- iii. Best Practices Facts
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**e. Active Directory Overview**

- i. Active Directory Introduction (9:04)
- ii. Active Directory Structure (9:25)
- iii. Viewing Active Directory (8:05)
- iv. Active Directory Facts
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**f. Windows Domain Users and Groups**

- i. Creating User Accounts (4:50)
- ii. Managing User Account Properties (7:45)
- iii. Create User Accounts
- iv. Manage User Accounts
- v. Managing Groups (5:05)
- vi. Create a Group
- vii. Create Global Groups
- viii. User Account Management Facts
- ix. Practice Questions - Section 2.6

**g. Linux Users**



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- i. Linux User and Group Overview (19:14)
  - ii. Managing Linux Users (9:28)
  - iii. Linux User Commands and Files
  - iv. Create a User Account
  - v. Rename a User Account
  - vi. Delete a User
  - vii. Change Your Password
  - viii. Change a User´s Password
  - ix. Lock and Unlock User Accounts
  - x. Practice Questions - Section 2.7
- h. **Linux Groups**
  - i. Managing Linux Groups (3:15)
  - ii. Linux Group Commands
  - iii. Rename and Create Groups
  - iv. Add Users to a Group
  - v. Remove a User from a Group
  - vi. Practice Questions - Section 2.8
- i. **Linux User Security**
  - i. Linux User Security and Restrictions (9:53)
  - ii. Configuring Linux User Security and Restrictions (6:40)
  - iii. Linux User Security and Restriction Facts
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- j. **Group Policy Overview**
  - i. Group Policy Overview (8:41)
  - ii. Viewing Group Policy (14:31)
  - iii. Group Policy Facts
  - iv. Create and Link a GPO
  - v. Practice Questions - Section 2.10
- k. **Hardening Authentication 1**
  - i. Hardening Authentication (19:31)
  - ii. Configuring User Account Restrictions (9:30)



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- iii. Configure User Account Restrictions
- iv. Configuring Account Policies and UAC Settings (14:18)
  - v. Configure Account Policies
- vi. Hardening User Accounts (10:20)
- vii. Restrict Local Accounts
- viii. Secure Default Accounts
- ix. Enforce User Account Control
- x. Hardening Authentication Facts
- xi. Practice Questions - Section 2.11

## **I. Hardening Authentication 2**

- i. Configuring Smart Card Authentication (6:20)
- ii. Configure Smart Card Authentication
- iii. Smart Card Authentication Facts
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  - v. Fine-Grained Password Policy Facts
- vi. Create a Fine-Grained Password Policy
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## **m. Remote Access**

- i. Remote Access (8:44)
- ii. Remote Access Facts
- iii. RADIUS and TACACS+ (6:52)
- iv. RADIUS and TACACS+ Facts
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## **n. Network Authentication**

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- ii. Network Authentication via LDAP (10:31)
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- iv. Controlling the Authentication Method (6:39)
  - v. Configure Kerberos Policy Settings
- vi. Browsing a Directory Tree via LDAP (6:38)
- vii. Trusts and Transitive Access (5:34)



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- viii. Trusts and Transitive Access Facts
- ix. Credential Management (10:06)
- x. Credential Management Facts
- xi. Practice Questions - Section 2.14

**o. Identity Management**

- i. Identity Management (16:31)
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**III. CRYPTOGRAPHY**

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- ii. Cryptography Facts
- iii. Cryptographic Attacks (17:48)
- iv. Cryptographic Attack Facts
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- iii. Using Hashes (7:43)
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**c. Symmetric Encryption**

- i. Symmetric Encryption (5:27)
- ii. HMAC (6:14)
- iii. Symmetric Encryption Facts
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- i. Asymmetric Encryption (8:14)
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## e. **Public Key Infrastructure (PKI)**

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- ii. Managing Certificates (14:45)
- iii. Manage Certificates
- iv. Certificate Lifecycle Facts
- v. CA Implementation (5:17)
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- vii. PKI Management Facts
- viii. Practice Questions - Section 3.5

## f. **Cryptography Implementations**

- i. Combining Cryptographic Methods (10:30)
- ii. Hardware Based Encryption Devices (7:13)
- iii. Cryptographic Implementation Facts
- iv. Practice Questions - Section 3.6

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### a. **Security Policies**

- i. Security Policies (7:23)
- ii. Data Privacy Laws (9:43)
- iii. Security Policy Facts
- iv. Security Documentation Facts
- v. Security Management Facts
- vi. Information Classification (5:40)
- vii. Information Classification Facts
- viii. Data Retention Policies (11:40)
- ix. Wiping a Hard Drive (12:58)
- x. Data Retention Facts
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### b. **Manageable Network Plan**

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- ii. Manageable Network Plan 2 (14:05)



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- iii. Manageable Network Plan Facts
- iv. Practice Questions - Section 4.2
- c. **Business Continuity**
  - i. Business Continuity (2:39)
  - ii. Succession Planning (5:23)
  - iii. Business Continuity Facts
  - iv. Practice Questions - Section 4.3
- d. **Risk Management**
  - i. Risk Management (4:04)
  - ii. Security Controls (3:21)
  - iii. Data Loss Prevention (DLP) (4:57)
  - iv. Risk Management Facts
  - v. Practice Questions - Section 4.4
- e. **Incident Response**
  - i. First Responder (7:17)
  - ii. Basic Forensic Procedures (18:31)
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  - iv. Creating a Forensic Drive Image (10:00)
  - v. Incident Response Facts
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  - vii. Practice Questions - Section 4.5
- f. **Social Engineering**
  - i. Social Engineering (4:40)
  - ii. Phishing Variations (13:04)
  - iii. Social Engineering Facts
  - iv. Investigating a Social Engineering Attack (9:45)
  - v. Respond to Social Engineering
  - vi. Practice Questions - Section 4.6
- g. **Certification and Accreditation**
  - i. Trusted Computing (10:01)



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- ii. Certification and Accreditation (4:46)
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## **h. Development**

- i. System Development Life Cycle (8:40)
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## **i. Employee Management**

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## **j. Third-Party Integration**

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- ii. Third-Party Integration Security Facts
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- ii. Tailgating and Piggybacking (3:28)
- iii. Physical Security Facts
- iv. Hardware Security
- v. Hardware Security Guidelines (7:50)
- vi. Breaking into a System (7:30)
- vii. Hardware Security Facts
- viii. Practice Questions - Section 5.2

### **b. Environmental Controls**



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- i. Environmental Controls (6:00)
- ii. Environmental Monitoring (11:33)
- iii. Hot and Cold Aisles (5:17)
- iv. Environmental Control Facts
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- vi. Practice Questions - Section 5.3

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- i. Mobile Device Security (7:34)
- ii. Mobile Device Security Facts
- iii. BYOD Security Issues (9:33)
- iv. BYOD Security Facts
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- vi. Secure an iPad
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- i. Enforcing Security Policies on Mobile Devices (7:57)
- ii. Enrolling Devices and Performing a Remote Wipe (8:49)
- iii. Mobile Device Security Enforcement Facts
- iv. Mobile Application Security (9:00)
- v. Mobile Application Security Facts
- vi. Practice Questions - Section 5.5

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- i. Telephony (15:00)
- ii. Telephony Security Facts
- iii. Practice Questions - Section 5.6

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**a. Network Layer Protocol Review**

- i. OSI Model (4:08)
- ii. OSI Model Facts
- iii. IP Addressing (17:22)



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- iv. IP Address Facts
- v. Configuring IPv6 (5:28)
- vi. IP Subnetting (12:35)
- vii. Configuring Subnetting (8:07)
- viii. Subnetting Facts
- ix. Practice Questions - Section 6.1
- b. Transport Layer Protocol Review**
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  - ii. Network Protocol Facts
  - iii. Analyzing a TCP Three-way Handshake (2:14)
  - iv. TCP and UDP Ports (9:02)
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- c. Perimeter Attacks 1**
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  - ii. Performing Reconnaissance (9:01)
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  - iv. Denial of Service (DoS) (7:49)
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- d. Perimeter Attacks 2**
  - i. Session and Spoofing Attacks (6:41)
  - ii. Session Based Attack Facts
  - iii. Performing ARP Poisoning (4:24)
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**e. Security Appliances**

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- ii. Security Zones (5:32)
- iii. Security Zone Facts
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- v. Security Solution Facts
- vi. Configuring Network Security Appliance Access (6:55)
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**f. Demilitarized Zones (DMZ)**

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- iii. Configure a DMZ
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**g. Firewalls**

- i. Firewalls (5:33)
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**h. Network Address Translation (NAT)**

- i. Network Address Translation (15:57)
- ii. Configuring NAT (5:11)
- iii. NAT Facts
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**i. Virtual Private Networks (VPN)**

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- ii. Configuring a VPN (4:25)



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- iii. Configure a Remote Access VPN
- iv. Configure a VPN Connection iPad
- v. VPN Facts
- vi. VPN Protocol Facts
- vii. Practice Questions - Section 6.9
- j. Web Threat Protection**
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  - ii. Configuring Web Threat Protection (4:26)
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- k. Network Access Control (NAC)**
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  - ii. Implementing NAP with DHCP Enforcement (15:56)
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- l. Wireless Overview**
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  - iv. Wireless Encryption (6:46)
  - v. Wireless Encryption Facts
  - vi. Configuring a Wireless Connection (12:22)
  - vii. Secure a Wireless Network
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- m. Wireless Attacks**
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  - ii. Wireless Attack Facts
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  - iv. Detecting Rogue Hosts (7:37)
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## n. **Wireless Defenses**

- i. Wireless Security Considerations (12:54)
- ii. Wireless Authentication (4:40)
- iii. Wireless Authentication Facts
- iv. Configuring a Wireless Access Point (19:54)
- v. Obscure a Wireless Network
- vi. Configure a Wireless Profile
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- viii. Wireless Security Facts
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### a. **Network Devices**

- i. Network Devices (5:51)
- ii. Network Device Facts
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### b. **Network Device Vulnerabilities**

- i. Device Vulnerabilities (1:47)
- ii. Device Vulnerability Facts
- iii. Searching Defaultpasswords.com (1:23)
- iv. Securing a Switch (3:21)
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### c. **Switch Attacks**

- i. Switch Attacks (5:04)
- ii. Switch Attack Facts
- iii. Practice Questions - Section 7.3

### d. **Router Security**

- i. Router Security (8:57)
- ii. Router Security Facts
- iii. Practice Questions - Section 7.4





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## e. **Switch Security**

- i. Switch Security (13:01)
- ii. Switch Loop Protection (10:47)
- iii. Switch Security Facts
- iv. Configuring VLANs from the CLI (4:32)
- v. Explore VLANs from the CLI
- vi. Configuring VLANs (3:32)
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- viii. Hardening a Switch (14:10)
- ix. Harden a Switch
- x. Secure Access to a Switch
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## f. **Intrusion Detection and Prevention**

- i. Intrusion Detection (7:14)
- ii. Detection vs. Prevention Controls (7:50)
- iii. IDS Facts
- iv. Implementing Intrusion Monitoring (3:33)
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## g. **SAN Security**

- i. SAN Security Issues (14:32)
- ii. Configuring an iSCSI SAN (9:57)
- iii. SAN Security Facts
- iv. Practice Questions - Section 7.7

## VIII. **HOST DEFENSES**

### a. **Malware**

- i. Malware (9:28)
- ii. Malware Facts



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- iii. Malware Protection Facts
- iv. Implementing Malware Protections (23:43)
  - v. Using Windows Defender (14:22)
  - vi. Configure Windows Defender
  - vii. Practice Questions - Section 8.1
- b. Password Attacks**
  - i. Password Attacks (2:04)
  - ii. Password Attack Facts
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- c. Windows System Hardening**
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  - iii. Hardening an Operating System (6:41)
  - iv. Managing Automatic Updates (18:31)
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    - vi. Configuring Windows Firewall (10:11)
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- d. Hardening Enforcement**
  - i. Hardening Enforcement with GPOs (1:50)
  - ii. Using Security Templates and Group Policy (6:53)
  - iii. Configuring GPOs to Enforce Security (15:24)
  - iv. Hardening Enforcement Facts
  - v. Manage Services with Group Policy
  - vi. Practice Questions - Section 8.4
- e. File Server Security**



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- i. File Server Security (7:58)
- ii. Scanning for Open Ports (3:52)
- iii. File System Security Facts
- iv. File Permission Facts
- v. Configuring NTFS Permissions (14:05)
- vi. Configure NTFS Permissions
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**f. Linux Host Security**

- i. Linux Host Security (7:10)
- ii. Removing Unneeded Services and Scanning Ports (6:30)
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- iv. Practice Questions - Section 8.6

**g. Static Environment Security**

- i. Security Risks in Static Environments (4:26)
- ii. Static Environment Security Facts
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**a. Web Application Attacks**

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- ii. Cross-site Request Forgery (XSRF) Attack (10:51)
- iii. Injection Attacks (14:30)
- iv. Header Manipulation (9:01)
- v. Zero Day Application Attacks (6:59)
- vi. Client Side Attacks (6:22)
- vii. Web Application Attack Facts
- viii. Preventing Cross-site Scripting (4:05)
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**b. Internet Browsers**

- i. Managing Security Zones and Add-ons (20:26)



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- ii. Configuring IE Enhanced Security (9:11)
- iii. Managing Cookies (12:38)
- iv. Configure Cookie Handling
- v. Clearing the Browser Cache (9:28)
- vi. Clear the Browser Cache
- vii. Implementing Popup Blockers (7:26)
- viii. Configure IE Popup Blocker
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  - iii. Protecting a Client from Spam (10:29)
  - iv. Securing an E-mail Server (2:45)
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- d. Network Applications**
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  - iii. Using Peer-to-peer Software (3:04)
  - iv. Securing Windows Messenger (2:48)
  - v. Configuring Application Control Software (9:05)
  - vi. Network Application Facts
  - vii. Practice Questions - Section 9.4
- e. Virtualization**
  - i. Virtualization Introduction (4:01)



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- ii. Virtualization Benefits (3:08)
- iii. Load Balancing with Virtualization (10:40)
- iv. Creating Virtual Machines (4:22)
- v. Managing Virtual Machines (5:09)
- vi. Create Virtual Machines
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- viii. Creating Virtual Switches (3:26)
- ix. Create Virtual Switches
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- ii. Application Hardening (11:02)
- iii. Application Development Security Facts
- iv. Hardening Applications on Linux (4:26)
- v. Implementing Application Whitelisting with AppLocker (13:03)
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- viii. Implement Data Execution Preventions (DEP)
- ix. Hardening Applications Facts
- x. NoSQL Security (5:18)
- xi. NoSQL Security Facts
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### a. **Redundancy**

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- ii. Redundancy Measurement Parameters (5:12)
- iii. Redundancy Facts
- iv. RAID (7:27)
- v. Implementing RAID (6:16)
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- vii. Configure Fault Tolerant Volumes
- viii. Clustering (9:06)
- ix. Clustering Facts
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- b. Backup and Restore**
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  - iii. Backup Management Facts
  - iv. Backing Up Workstations (6:18)
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- c. File Encryption**
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  - ii. Securing Files using EFS (11:45)
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  - vi. BitLocker and Database Encryption (13:02)
  - vii. Configuring BitLocker (6:17)
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- vii. IPsec Facts
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- ii. Cloud Computing Security Issues (6:32)
- iii. Cloud Computing Facts
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- iii. Scanning a Network with Nessus (18:26)
- iv. Scanning a Network with Retina (12:12)
- v. Scanning for Vulnerabilities Using MBSA (6:02)
- vi. Review a Vulnerability Scan 1
- vii. Review a Vulnerability Scan 2
- viii. Review a Vulnerability Scan 3
- ix. Performing Port and Ping Scans (2:36)
- x. Checking for Weak Passwords (9:21)
- xi. Practice Questions - Section 11.1

**b. Penetration Testing**

- i. Penetration Testing (2:32)
- ii. Penetration Testing Facts
- iii. Exploring Penetration Testing Tools (11:22)
- iv. Practice Questions - Section 11.2

**c. Protocol Analyzers**

- i. Protocol Analyzers (3:07)
- ii. Protocol Analyzer Facts



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- iii. Analyzing Network Traffic (6:50)
- iv. Practice Questions - Section 11.3

**d. Log Management**

- i. Logs (3:25)
- ii. Log Facts
- iii. Logging Events with Event Viewer (3:52)
- iv. Windows Event Subscriptions (10:36)
- v. Configuring Source-initiated Subscriptions (4:50)
- vi. Configuring Remote Logging on Linux (8:23)
- vii. Remote Logging Facts
- viii. Practice Questions - Section 11.4

**e. Audits**

- i. Audits (3:13)
- ii. Audit Facts
- iii. Auditing the Windows Security Log (11:41)
- iv. Configure Advanced Audit Policy
- v. Auditing Device Logs (6:57)
- vi. Enable Device Logs
- vii. Practice Questions - Section 11.5





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