



Cisco Networking Academy
Mind Wide Open

Introduction to Cybersecurity Overview

October 2014



Introduction to Cybersecurity Course Overview

- Introduces the importance of cybersecurity and current trends
- Eight modules with presentations and panel discussions that feature industry experts
- Activities, videos, and additional resources for students to explore
- Assessments include a pre-test, 8 quizzes, and 1 final exam
- Estimated time to complete: 13 hours
- Students can self-enroll or instructors can teach this course in their classroom
- Available in English



Course Outline

Module		Goals
1	The Cybersecurity Industry	<ul style="list-style-type: none">• Explain the importance of cybersecurity in the global economy• Explain why cybersecurity is a growing profession
2	Malware and How to Protect Yourself	<ul style="list-style-type: none">• Explain the characteristics and operation of malware• Explain how hackers use unsuspecting individuals to propagate malware
3	Overview of Cybersecurity in Finance and Telecommunications	<ul style="list-style-type: none">• Explain why cybersecurity is critical to the banking industry• Explain why cybersecurity is critical to the telecommunications industry
4	Cisco Security Solutions	<ul style="list-style-type: none">• Explain Cisco's approach to cybersecurity• Explain the behavior-based approach to cybersecurity
5	Defending Against Global Threats	<ul style="list-style-type: none">• Explain the characteristics of cyber warfare• Explain how Cisco Security Intelligence Operations (SIO) tracks and responds to a global threat
6	Strategic and Architectural Cybersecurity Planning	<ul style="list-style-type: none">• Explain trends in the cyber threat landscape• Explain the framework of the Enterprise Security Architecture
7	Vulnerabilities and Solutions	<ul style="list-style-type: none">• Explain why cybersecurity is critical to the medical devices industry
8	Will Your Future Be in Cybersecurity?	<ul style="list-style-type: none">• Explain the opportunities for pursuing network security certifications

Module 1: The Cybersecurity Industry

This module introduces you to the cybersecurity industry and the career opportunities available to you in this exciting, ever-changing, and high-demand field. It includes two recorded presentations:

- Think Like a Hacker, Defend Like a Ninja
- Panel Discussion: A Day in the Life of a Cisco Security Expert and the Multi Dimensions of Cyber Security

Learning objectives:

- Explain the importance of cybersecurity in the global economy
- Explain why cybersecurity is a growing profession

Estimated time to complete: 2 hours plus activities and resources to explore



Module 2: Malware and How to Protect Yourself

This module explains what malware is and how it is used by hackers to gain unauthorized access to information. The module also explores ways you can protect your privacy and lower your personal risk of being hacked. It includes two recorded presentations:

- Trends in Malware
- Security, Privacy, and Risk Considerations in a Social-Networked World – Protecting Yourself from Yourself

Learning objectives:

- Explain the characteristics and operation of malware
- Explain how hackers use unsuspecting individuals to propagate malware

Estimated time to complete: 1.5 hours plus activities and resources to explore



Module 3: Overview of Cybersecurity in Finance and Telecommunications

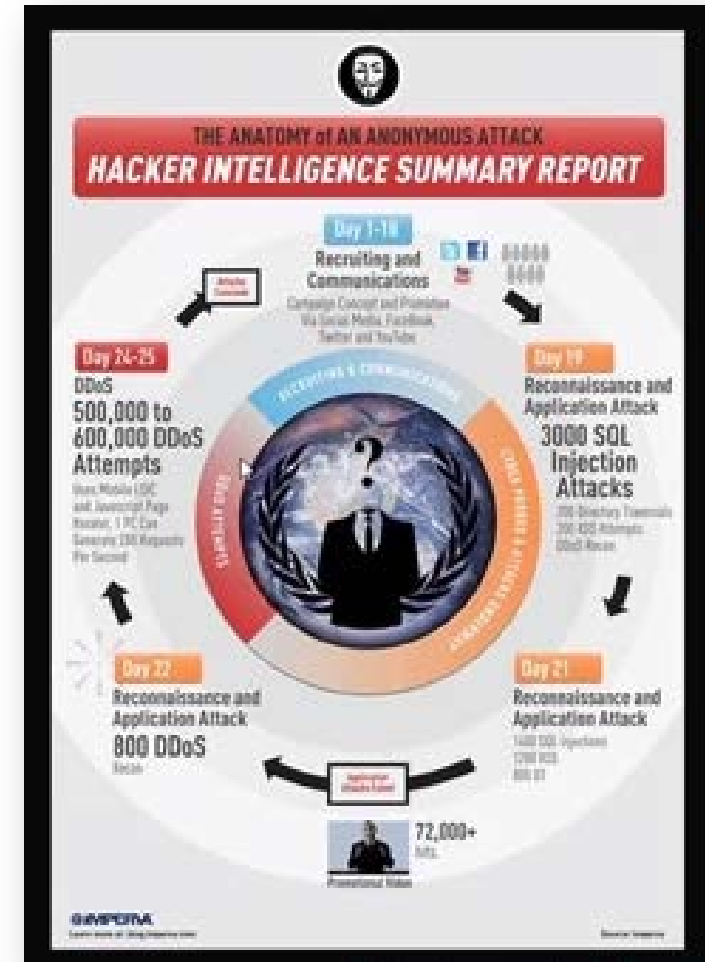
This module includes three recorded presentations that provide an overview of cybersecurity in the finance and telecommunications industries:

- Finance Industry Cyber Attacks
- Cybersecurity Issues in Internet Banking
- Fighting Cyber Crime in the Telecommunications Industry

Learning objectives:

- Explain why cybersecurity is critical to the banking industry

Estimated time to complete: 2 hours plus activities and resources to explore



Module 4: Cisco Security Solutions

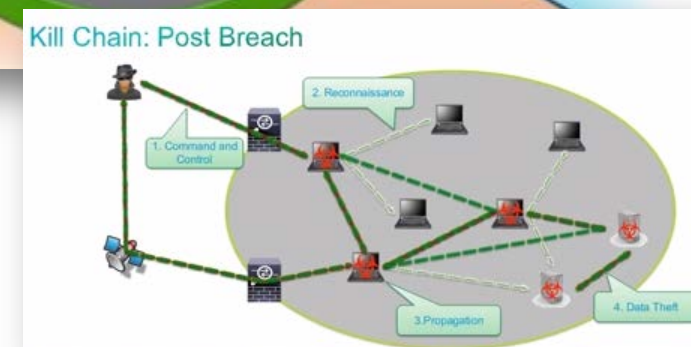
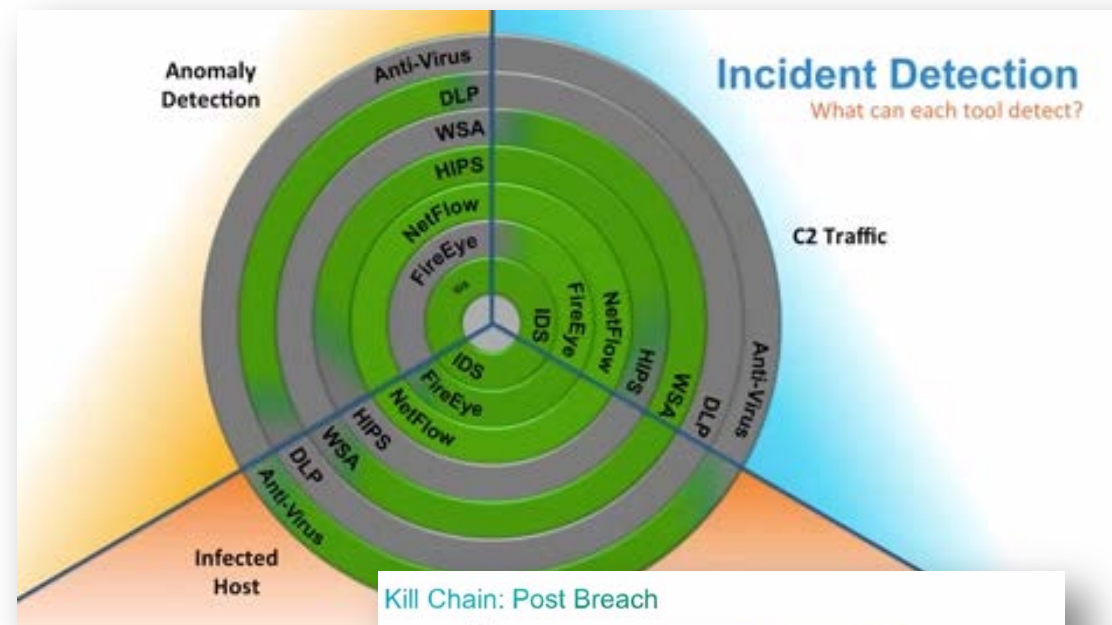
This module explains two approaches to cybersecurity: Cisco Security Incident Response Team (CSIRT) and behavior-based cybersecurity. There are two recorded presentations:

- Cyber Security: The Operational View
- Behaviour Based Security

Learning objectives:

- Explain Cisco's approach to cybersecurity
- Explain the behavior-based approach to cybersecurity

Estimated time to complete: 2 hours plus activities and resources to explore



Module 5: Defending Against Global Threats

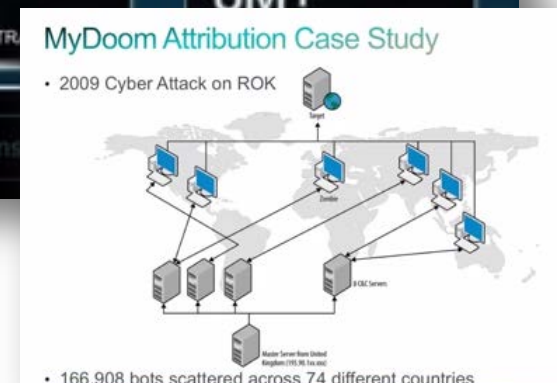
This module describes cyber warfare as any attack by a nation-state, organization, or individual, on another government or nation, with the intent of sabotage, espionage, or exploitation. Two recorded presentations provide an overview of cybersecurity in the domains of cyber warfare and security intelligence:

- Cyber Warfare: The New Battlefield for Defense Forces
- Security Intelligence, Tracking a Global Threat

Learning objectives:

- Explain the characteristics of cyber warfare
- Explain how Cisco Security Intelligence Operations (SIO) tracks and responds to a global threat

Estimated time to complete: 2 hours plus activities and resources to explore



Module 6: Strategic and Architectural Cybersecurity Planning

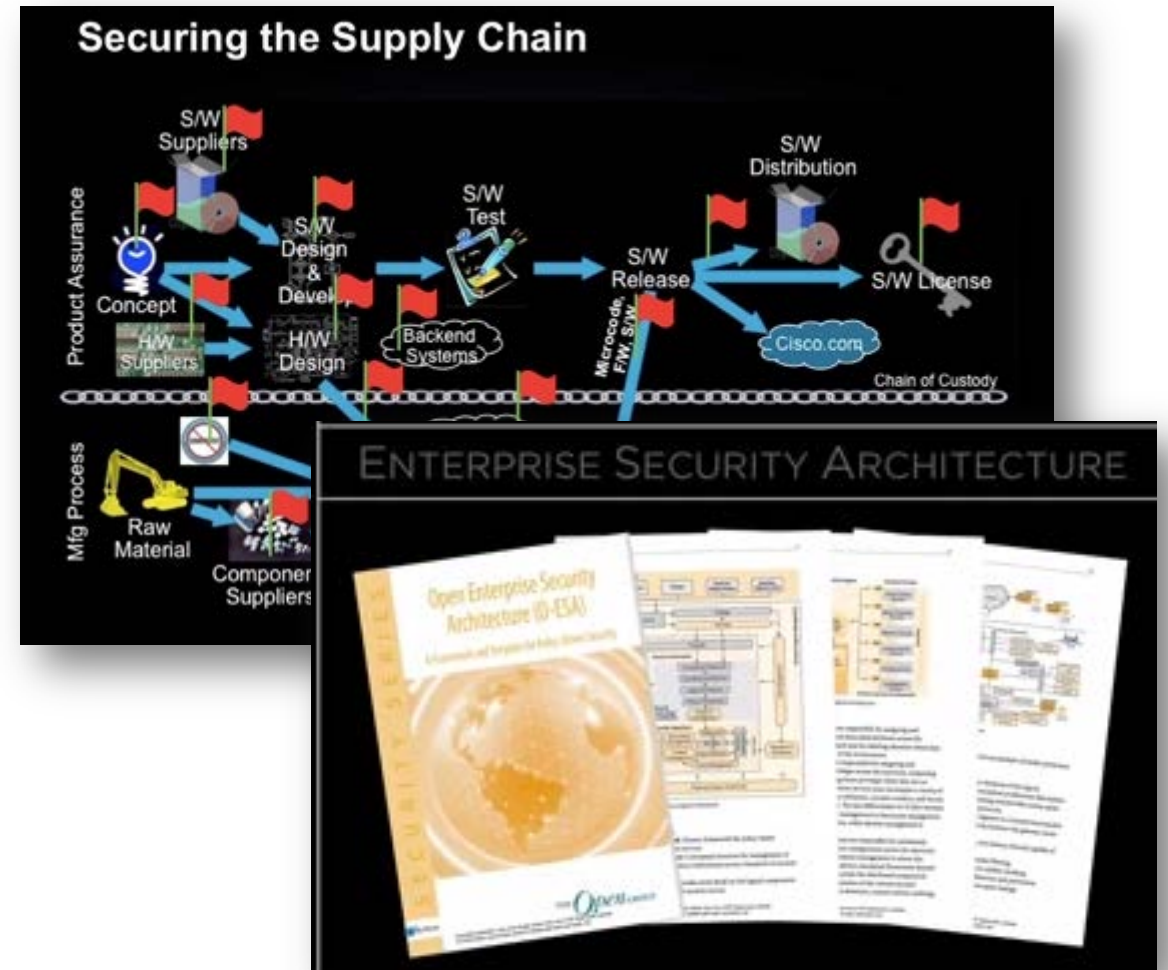
This module explains why developing an intelligence-led approach is essential to counteracting today's blended cyber attack threat environment. It includes two recorded presentations that provide an overview of strategic and architectural cybersecurity planning:

- Cyber Security: The Strategic View
- Cyber Security: The Architectural View

Learning objectives:

- Explain trends in the cyber threat landscape
- Explain the framework of the Enterprise Security Architecture

Estimated time to complete: 1.5 hours plus activities and resources to explore



Module 7: Vulnerabilities and Solutions

This module discusses why security experts must maintain a vigilant watch for potential vulnerabilities in any device or system connected to a network, and dives deeply into two current trends - wireless medical devices and cloud computing. This module includes two recorded presentations:

- Defending the Borg—Cybernetics and Medical Devices Under Attack Off Starboard Bow

Learning objectives:

- Explain why cybersecurity is critical to the medical devices industry

Estimated time to complete: 1.5 hours plus activities and resources to explore



Module 8: Will Your Future Be in Cybersecurity?

This module provides an overview of the evolving role of the cybersecurity professional, the CCNA Security certification program, and other certification programs. It includes two recorded presentations:

- CCNA Security Overview
- Cisco Security Certifications and the Growing Market Demand for Security Professionals

Learning objectives:

- Explain the opportunities for pursuing network security certifications

Estimated time to complete: 0.5 hour plus activities and resources to explore



The banner features a superhero character in a black suit and white mask, holding a shield with a yellow and black chevron pattern. The text 'CYBER SECURITY' is written in large, metallic, 3D letters. To the right, it says 'SUPERHERO SERIES 2012'. Below the main text, it says 'Join the fight against cyber crime!' and 'Cisco Networking Academy Mind Wide Open'. The Cisco logo is in the bottom right corner.

Security Certification Exam Updates

- CCNA Security
640-554 Implementing Cisco IOS Network Security (IINS)
- CCNP Security
642-648 Deploying Cisco ASA VPN Solutions (VPN v2.0)
642-618 Deploying Cisco ASA Firewall Solutions (FIREWALL v2.0)
- Cisco VPN Security Specialist
VPN exam update
- Cisco Firewall Security Specialist
FIREWALL exam update

SECURITY:

- Firewall
- IPS
- VPN
- ScanSafe

Student Enrollment and Support

Students:

- Please visit the [Self-Enroll Courses page](#) on Cisco NetSpace to enroll in the self-paced version of this course
- If you need assistance, please post questions on the [Cisco Networking Academy Facebook page](#)

Instructors:

- Instructors can enroll students and teach Introduction to Cybersecurity in their classrooms through the same process used for other NetAcad courses
- If you need assistance, please contact your Academy Support Center (ASC)

Thank you.



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