

# Cybersecurity course

# Module One: Cybersecurity basics

It is structured to give you a comprehensive introduction to the cybersecurity industry in terms of career opportunities, salaries, career paths, and many more:

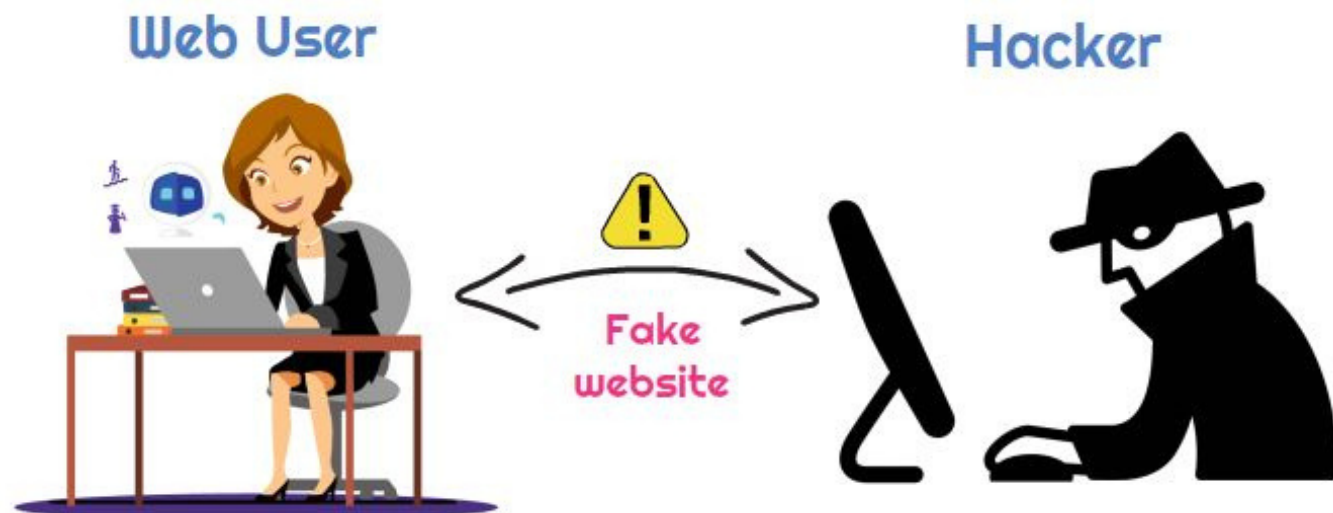


- Introduction to Cybersecurity
- Cybersecurity Career Path
- Cybersecurity certificate vs Cybersecurity Degrees
- Cybersecurity Competency Model
- Cybersecurity language

# Module Two:

# Attacks, Threats and Vulnerabilities

In this module you will get to know different attacks, threats and vulnerabilities:



- Cybersecurity CIA (Confidentiality, Integrity and Availability)
- Cybersecurity definitions
- Cybersecurity Controls
- Types of Vulnerabilities
- Identification of vulnerabilities
- Types of Attacks

# Module Three: Risk Management

You will learn the most critical aspect of cybersecurity, which is risk management. The ultimate responsibility of cybersecurity professionals is to reduce organizational cybersecurity risk:

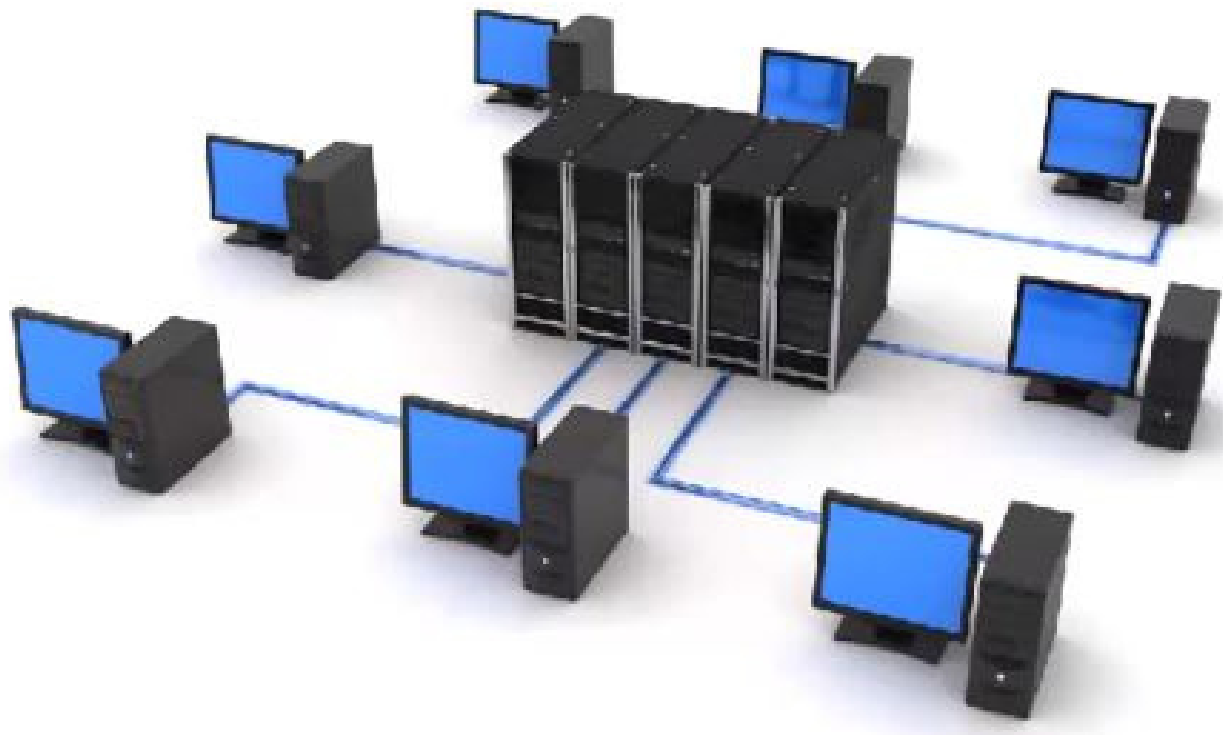


- Introduction to Risk Management
- Security Policies, Plans and Procedures
- Personnel Management
- Business Impact Analysis Concepts
- Incident Response Plan & Procedures
- Basic Concepts of Forensics
- Disaster Recovery and Continuity
- Data Security and Privacy Practices

# Module Four:

# Network and Networking Tools

This module will give you the basics you need to know in the network and networking security:



- Introduction to networking
- Install and configure network components (hardware and software)
- Network Security
- Troubleshoot common security issues
- Mobile devices security
- Implement secure protocols



# Module Five:

# Cybersecurity architecture & design

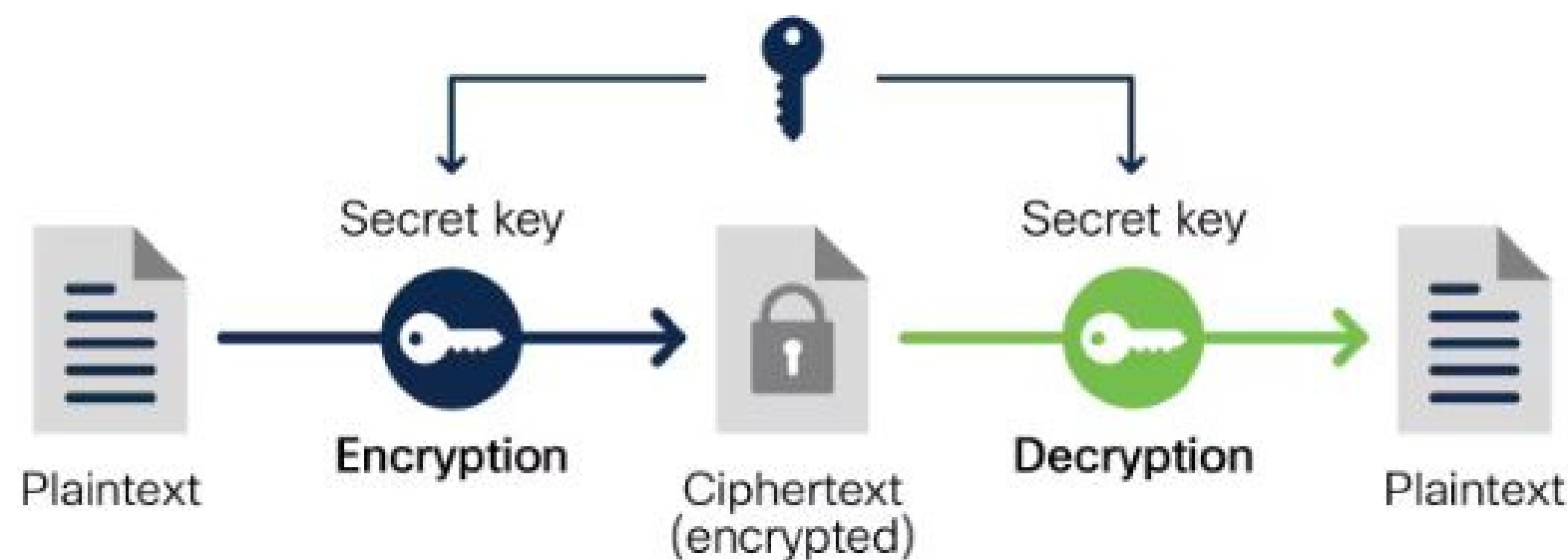
In this module, you will learn how to design and deploy security controls:



- Introduction to architecture and design in Cybersecurity
- Cybersecurity frameworks, best practice, secure configuration guides.
- Secure Network Architecture Concepts
- Secure System Design
- Secure Staging Deployment Concepts

# Module Six: Cryptography & public key infrastructure

In this module you will learn about cryptography:



- Basic Concepts of Cryptography
- Cryptography Algorithm and their basic characteristics
- How to install and configure Wireless Security Settings

# Module Seven: Identity & Access Management

In this module you will learn how to manage identification, authentication and authorization of people:

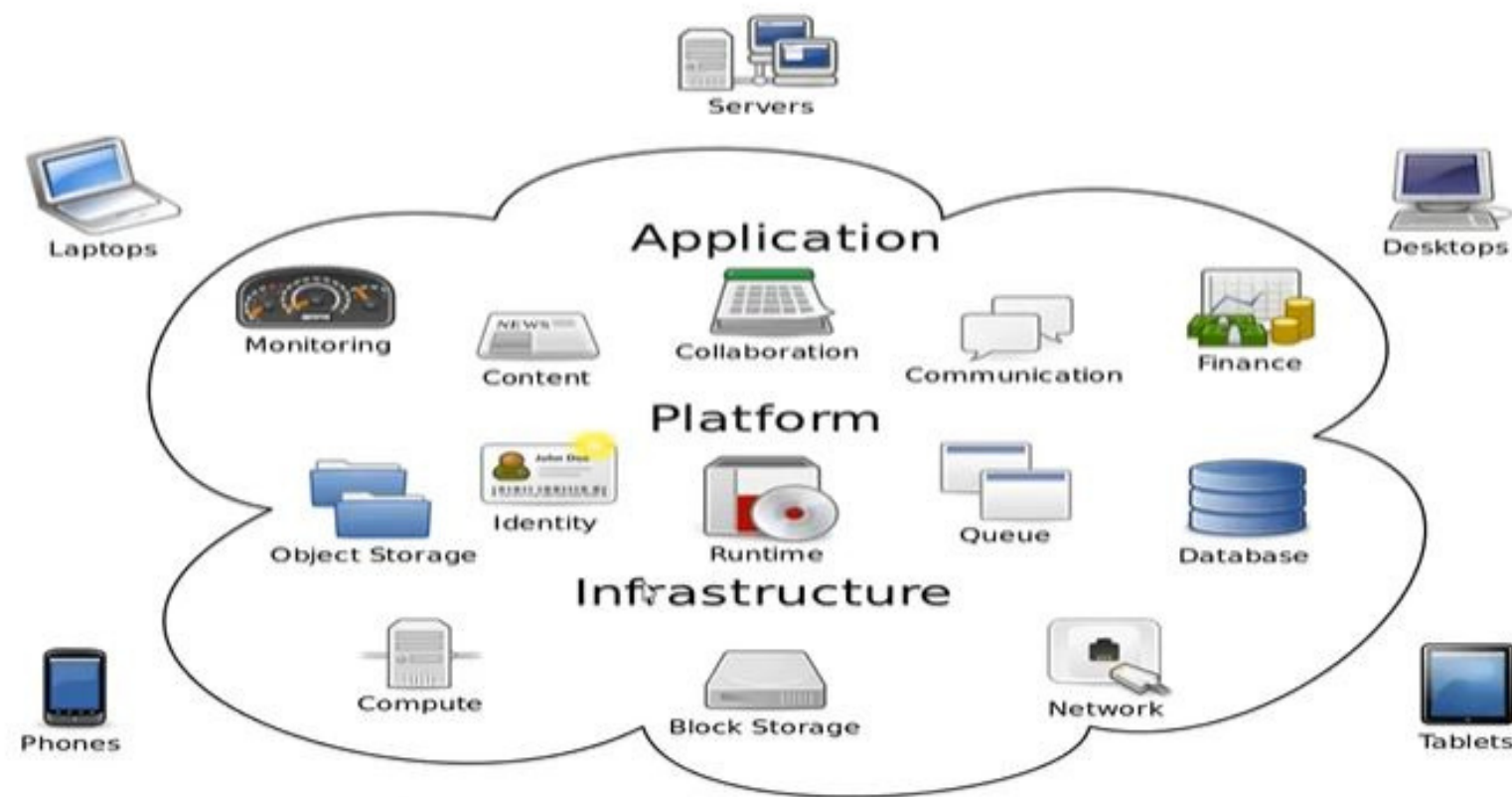


- Identity and Access Management Concepts
- install and configure identity and Access Services
- Implement Identity and Access Management Controls
- Common Account Management practices



# Module Eight: Cloud

In this module you will learn different types of Cloud and the security to be applied:



- Introduction to Cloud Computing
- Popular Cloud Services
- Types of Cloud Computing
- Cloud and Virtualization Concepts

# Module Nine:

## Framework & Governance

In this module you will learn different regulations, standards and frameworks used in Cybersecurity:



- Introduction to Framework and Governance
- Regulations, Standards and and Legislation
- Benchmarks and Security Configuration Guides

# Module Ten: Hands-on

In this module you will learn how to do the following:

- Hypervisor Type II VirtualBox
- Kali Linux, Metasploit machine
- Wireshark
- Vulnerability analysis with NMAP, Tenable Nessus
- Incident Response Management FireHydrant
- Man-in-the-middle attack simulation

