

NixOS for Cybersecurity

Secure, Reproducible Computing Environments

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Chapter 1

Course Overview

This 4-week course introduces cybersecurity professionals and enthusiasts to NixOS as a powerful platform for building secure, reproducible computing environments. Through hands-on exercises and real-world scenarios, you'll learn how to leverage NixOS's unique approach to system configuration to enhance security posture, create consistent testing environments, and implement robust security controls.

Chapter 2

Course Objectives

By the end of this course, participants will be able to:

- Understand and apply NixOS's declarative approach to system configuration
- Build secure, reproducible computing environments for security operations
- Implement system hardening techniques using NixOS configuration
- Create isolated testing networks and sandboxed environments
- Deploy consistent security tooling across multiple systems
- Develop, version, and share security-focused NixOS configurations

Chapter 3

Course Structure

Chapter 4

Practical Applications

Learn how to apply NixOS in real-world cybersecurity scenarios:

Chapter 5

What Sets This Course Apart

Chapter 6

Who Should Attend

This course is ideal for:

- Security professionals looking to enhance their infrastructure security skills
- System administrators seeking to implement more secure and reproducible environments
- DevSecOps practitioners wanting to improve security integration
- Penetration testers looking for consistent testing environments
- IT professionals interested in modern approaches to system security

Chapter 7

Prerequisites

Participants should have:

- Basic Linux knowledge and command line experience
- Fundamental understanding of cybersecurity concepts
- Familiarity with version control systems (Git)
- Basic networking knowledge

No prior NixOS experience is required.

Chapter 8

Instructors

Chapter 9

Registration Information

Chapter 10

Student Testimonials

Chapter 11

Frequently Asked Questions