

Cyber Security

□ Foundations of Cybersecurity.

- Welcome to the exciting world of cybersecurity
- The evolution of cybersecurity
- Protect against threats, risks, and vulnerabilities
- Cybersecurity tools and programming languages

□ Play It Safe: Manage Security Risks

- Security domains
- Security frameworks and controls
- Introduction to cybersecurity tools
- Use playbooks to respond to incidents

□ Connect and Protect: Networks and Network Security

- Network architecture
- Network operations
- Secure against network intrusions
- Security hardening

□ Tools of the Trade: Linux and SQL

- Introduction to operating systems
- The Linux operating system
- Linux commands in the Bash shell
- Databases and SQL

□ Assets, Threats, and Vulnerabilities

- Introduction to asset security
- Protect organizational assets
- Vulnerabilities in systems
- Threats to asset security

□ Sound the Alarm: Detection and Response

- Introduction to detection and incident response
- Network monitoring and analysis
- Incident investigation and response
- Network traffic and logs using IDS and SIEM tools

□ Automate Cybersecurity Tasks with Python

- Introduction to Python
- Write effective Python code
- Work with strings and lists

