DDOS Protection Course

Course Duration: 8 Hrs.   **Course code: DDOSP**

Course Overview

This course provides a comprehensive understanding of Distributed Denial-of-Service (DDoS) attacks and the strategies used to prevent, detect, and mitigate them. You'll learn the different types of DDoS attacks, understand their impact on businesses, and explore tools and techniques for securing systems against such threats.

What you'll learn?

- Fundamentals of DDoS attacks and their types
- Methods for detecting suspicious traffic patterns
- Strategies for prevention and real-time mitigation
- Tools and services for DDoS protection
- Best practices for securing networks and applications

Target Audience

- Network Security Professionals
- IT Administrators
- Cybersecurity Students & Enthusiasts
- Website Owners & Cloud Service Users
- DevOps Engineers

Pre-Requisites

- Basic understanding of networking concepts (IP, DNS, HTTP/HTTPS)
- Familiarity with firewalls and security tools
- Fundamental knowledge of cybersecurity concepts

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Course content

- Introduction to DDoS Attacks
- Understanding DoS vs DDoS
- Types of DDoS attacks (Volumetric, Protocol, Application Layer)
- Impact on systems and businesses
- DDoS Detection Techniques
- Recognizing traffic anomalies
- Tools for monitoring and detection
- Log analysis and alert systems
- Prevention Strategies
- Network design for resilience
- Using firewalls, load balancers, and CDNs
- Rate limiting and traffic filtering
- Mitigation Tools and Services
- On-premises vs Cloud-based solutions
- Popular DDoS protection tools (e.g., Cloudflare, AWS Shield)