SETC Training Corporate Logo

IPv6 Training: IPv6 Professional Security (IPv6SEC, 4 jours)

Description

The course IPv6 Professional Security (IPv6 Training) discusses every aspect of IPv6 security from the basics of the IPv6 protocol stack to protocol and application vulnerabilities. Beginning with a review of IPv6 addressing, the course introduces participants to the full range of security vulnerabilities and countermeasures. We discuss stateless and stateful DHCPv6, DNSv6, ICMPv6 and IGMPv6 amongst others. The course also explores routing protocols, ACLs, VLANs, firewalls, VOIP, IPv6 mobility & more.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

IPv6 Fundamentals Reviewed

- Major Differences between IPv4 and IPv6
- Understanding the IPv6 Address Space
- Understanding IPv6 Address Types
- IPv6 Address Expression
- Understanding Stateless and Stateful Auto-configuration’
- Understanding DHCPv6
- The IPv6 Header
- Understanding Header Extensions
- Understanding Neighbor Discovery
- Exploring ICMPv6
- Understanding DNSv6
- A Quick Look at End to End Traffic in an IPv6 Network
- A Quick Tour of IPv4 and IPv6 Co-Existence

Introduction to IPv6 Security

- Reintroduction to IPv6
- IPv6 Update
- IPv6 Vulnerabilities
- Hacker Experience
- IPv6 Security Mitigation Techniques
- Recommended Readings and Resources

IPv6 Protocol Security Vulnerabilities

- The IPv6 Protocol Header
- Extension Header Threats
- Reconnaissance on IPv6 Networks
- Layer 3 and Layer 4 Spoofing

IPv6 Internet Security

- Large-Scale Internet Threats
- Ingress/Egress Filtering
- Securing BGP Sessions
- IPv6 over MPLS Security
- Customer Premises Equipment