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# IPv6 Networking and Security

## OVERVIEW:

IPv6 is becoming widely deployed. It is standard in all modern operating systems, major network equipment and applications. Even if not explicitly deployed in your organization, your network devices and operating systems will support IPv6 and many of IPv6's transition mechanisms. So, whilst you may not have implemented IPv6 in your network yet, you still need to secure your network against abuse using IPv6 protocols.

Modern network operating systems, including Windows, Linux, Unix, Mac OS and mobile operating systems (such as Android), support IPv6 and will use IPv6 in preference to IPv4. Further most have IPv6 turned on by default. You need to ensure that your network is IPv6 secure and that you are ready for any future implementation of IPv6. IPv6 brings many new security challenges and opportunities. New security techniques need to be understood and implemented. The transition to IPv6 from IPv4 presents particular security issues.

This course covers IPv6 security in detail. Each area is explained and practical guidance on mitigating each security threat is provided.

## PREREQUISITE:

- ✓ A good knowledge of general networking concepts is assumed. Experience of IPv4 is Necessary.

**Course Delivery:** Instructor-led

**Course Recognitions:** Certificate of Completion

**Course Outline:**

- ✓ Introduction to IPv6 Security
- ✓ IPv6 Routing Concepts
- ✓ IPv6 Static Routing
- ✓ IPv6 Routing Protocols
- ✓ IPv6 Security Threats
- ✓ IPv6 Security Features
- ✓ IPv6 Firewall
- ✓ IPv6 Transition Security