

# IPv6 Fundamentals

## Workshop

Ready or not, IPv6 is here!

IPv6 was developed more than a decade ago, but now is being implemented by both service providers and companies alike primarily due to the lack of IPv4 addresses. This one day hands-on will cover IPv6 concepts, IPv6 Address Basics, and IPv6 basic configuration in a Cisco infrastructure. This workshop is suitable for network engineers, network operators or Systems/IT admin who are responsible about network operation in their organization.

### Objectives

This workshop will help to :

- Understand the differences and similarities between IPv4 and IPv6
- Know that deploying IPv6 will enable continued IP networking growth
- Understand the implications of running out of available IPv4 address space
- also to remove some of the fear related to IPv6 deployment and to enable it

### Workshop Level

Intermediate Level

### Instructor

- Sara Alamin Mohamed
- Salih Shihab Aldeen

### Requirements

- It is assumed you are familiar with common IP terminology and have practical knowledge of running an IP network.
- Participants should bring a laptop computer to participate in the lab, with 2GB RAM as minimum.

### Date & Time

- Date: Saturday, x.x.x
- Time: 9:00AM - 4:30PM

# Outline

- Internet Ecosystem
- IPv4 Exhaustion
- IPv6 Address Basics > notation, shortening rules
- IPv6 Address Types
- IPv6 vs IPv4
- transition mechanism
- Basic Configuration

## Registration

\*Paste registration link here\*

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