

Cisco CCNA (200-301)

Episode Title: Reviewing IPv6 Addressing

Learner Objective: Review IPv6 network addressing concepts

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Description: You will review some details of IPv6 to learn its scope the need of it for networks on the internet.

Q: Why do we need to it?

- The limitation of the IPv4 address space could not keep up with the rapid depletion of the IPv4 addresses on the internet.

Q: How big is the IPv6 address space pool?

- So big that even analogies fail to logically describe it.

Q: How different is IPv6 addressing from IPv4 addressing?

- 2 differences
 - IPv4 is binary reported in dotted decimal format (0 -9)
 - IPv6 is binary but reported in hexadecimal format (0 -9, A-F)
 - The address pool is much larger in comparison to 32 bit format of IPv4. It is 128 bit pool size.
- Different address types used for different functions

Q: We can help us to break this down a little more?

Yes, let's take a look at the structure.

Q: Can you help us with these different address types and how they are used?

- in the next few episodes, we will do exactly that.

Endnotes, External, etc.

- Objective: 1.9