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IPv6 Addressing and Subnetting *Understanding IPV6 Addressing and Subnetting*
Subnetting IPv6 Addresses 8.3.1.4

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Version 1 F E8 0:: Global Routing Prefix
Subnet ID Interface ID Hexadecimal 2001:0D B
Student Name: : 9:F000: Types of IPv6
Addresses Unspecified, Loopback, Embedded
IPv4 Unspecified address is an all 0 address
and cannot be assigned to an interface. It
would be typed as ::.

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defining unicast IPv4 addresses. Then, within the class A, B, and C address range, the Internet Assigned Numbers Authority (IANA) and the Internet Corporation for Assigned Names and Numbers (ICANN) reserve most of the addresses as public IPv4 addresses, with a few reserved as ...

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The IPv6 Address The IPv6 address is 128 bits, as opposed to the 32-bit IPv4 address. Also unlike IPv4, the IPv6 address is represented in hexadecimal notation, separate by colons. An example of an IPv6 address

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would be:

1254:1532:26B1:CC14:0123:1111:2222:3333 Each "grouping" (from here on called fields) of hexadecimal digits is 16

~~IPv6 Addressing Router Alley~~

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Instructor's Edition Version 2.0. IP Address Classes Class A 1 - 127 (Network 127 is reserved for loopback and internal testing)

Leading bit pattern 0

00000000.00000000.00000000.00000000 Class B

128 - 191 Leading bit pattern 10

10000000.00000000.00000000.00000000

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Understanding IPV6 Addressing and Subnetting.
This video takes you through Hexadecimal and binary as the foundation of IPv6.

~~Understanding IPV6 Addressing and Subnetting
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A subnetwork or subnet is a logical subdivision of an IP network.: 1,16 The practice of dividing a network into two or

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more networks is called subnetting. Computers that belong to a subnet are addressed with an identical most-significant bit-group in their IP addresses. This results in the logical division of an IP address into two fields: the network number or routing prefix and the rest field ...

~~Subnetwork — Wikipedia~~

IPv6 addresses use 128 bits to represent an address which includes bits to be used for subnetting. The second half of the address (least significant 64 bits) is always used for hosts only. Therefore, there is no

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compromise if we subnet the network. [Image: IPv6 Subnetting] 16 bits of subnet is equivalent to IPv4's Class B Network. Using these subnet bits, an organization can have another 65 thousands of subnets which is by far, more than enough.

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Here, our Subnetting bits that we will use on an address will be calculated according to our need. For example, if we have a /48 prefix and we need 8 subnets, we can use 3 subnetting bits ($2^3=8$). Our slash notation will be $48+3= 51$ (/51). With this IPv6 Subnetting , we can use 8 subnets with this IPv6 Prefix.

~~IPv6 Subnetting | IPv6 Subnetting Examples ?~~
~~IpCiseo~~

1.) Each character in an IPv6 address represents 4 bits (a nibble). Since 0xF is 1111 in binary, it's easy to fall back into

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an IPv4 habit and forget that 0x11 is actually 0001 0001 in binary. 2.) Each IPv6 set represent 16 bits (4 characters at 4 bits each). Keeping this in mind can make breaking up subnets a bit easier. 3.)

~~IPv6 Subnetting Overview and Case Study~~
~~Cisco Community~~

- IPv4 Addressing and Subnetting - Hardware Addressing A hardware address is used to uniquely identify a host within a local network. Hardware addressing is a function of the Data-Link layer of the OSI model (Layer-2). Ethernet utilizes the 48-bit MAC

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address as its hardware address. The

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