Wednesday, 10 February 2021 8:29 AM

It v6 address is represented as 8 groups of 4 Hexadecimal digits, each group representing 16 bits (two octets), called trextet, each group is separated by colon.

For example: 2001: Odb8:85a3:0000: 0000:8ale:0370:7334

The full representation of eight fourdigit groups man be simplified by Several techniques, to climinate groups' parts.

Parts. Zero Compression. A leading zeros in each 16-bit field are Suppressed, but each group must retain at least one digit in case of all zeros.

E.g: 2001:0468:85a3:0:0:0001:003a:0 2001:468:85a3::1:3a:0

Logest sequence of consecutive all-zeros fields is replaced with two colons (::). 9+ the address contains multiple runs of all-zeros fields then the leftmost is compressed.

E.g: 2001: db8:0:0:120:0:1 2001: db8:22:0:011