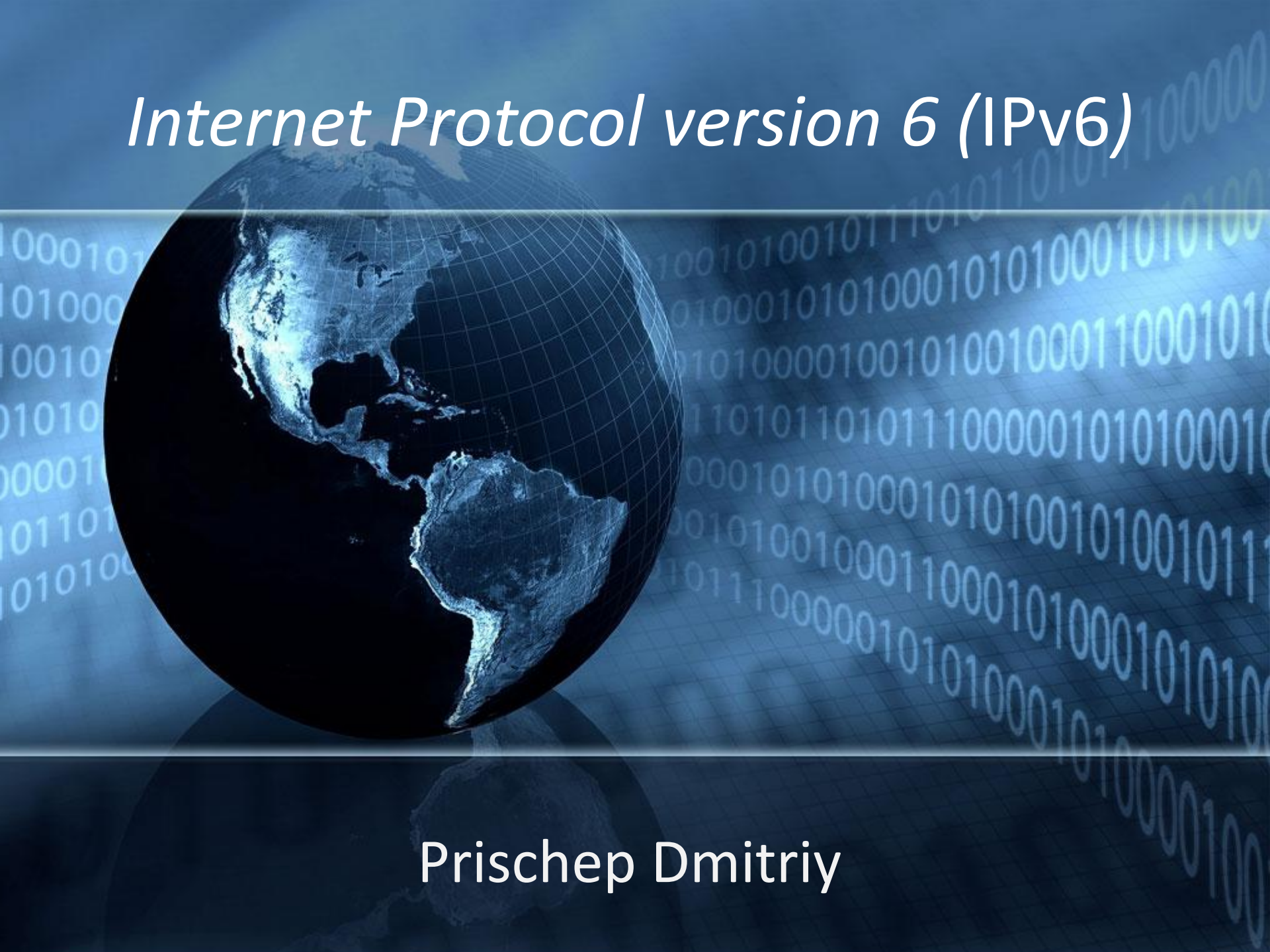
*Internet Protocol version 6 (*IPv6*)*



Prischep Dmitriy

Internet Protocol v6

IPv4

- IPv4 is 32-bit numbers
- 4.2 billion individual IP-addresses
- Depletion of Ipv4 addresses
- IPv4 and IPv6 are not interoperable

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IPv4

172 . 16 . 254 . 1

10101100 .00010000 .11111110 .00000001

One byte =Eight bits

Thirty-two bits (4 x 8), or 4 bytes

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IPv6

- 3.4E+38 individual IP addresses
- transition to IPv6 is complicated
- the first 64 bits represent a subnet in the global network
- The last 64 bits of the IPv6 address represent a device in a subnet

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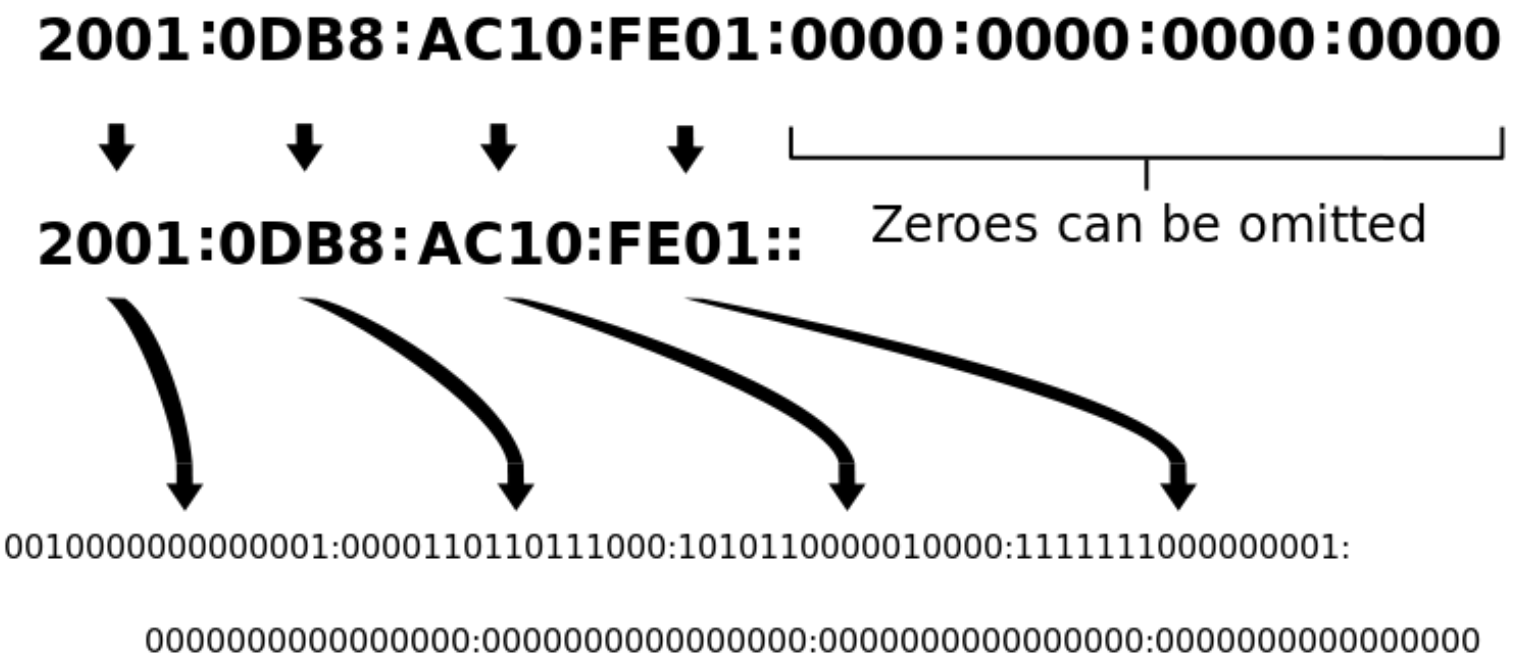
IPv6



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Thank you for attention