

IPv6 Addresses Worksheet

1. Why do we need IPv6 addresses?

2. What techniques are used at present to cope with the present problem with IPv4 addresses?

3. Map the following IPv4 addresses to IPv6:

- a. 112.109.82.131

- b. 104.26.14.163

- c. 162.241.226.151

4. Compress the following IPv6 addresses:

- a. 34F6: 0000 : 0000 : 0000 : 0000 : 0001: 0095 : 9000

- b. 254B:1001:0000:0000:1:0000:0000:BBBB

- c. 0000:0000:0000:0000:0000:FFFF:C0A8:0001

5. Which of the IPv6 addresses above is a valid IPv4 address. Justify your answer.

Address:

Justification:
