

Practice Quiz - Limitations of the Internet

Question 1:

There are 4 bytes in an IPv4 address. What is the highest possible decimal value for one byte?

255

512

128

256

There are 256 available values in a byte with decimal values ranging from 0 to 255.

Question 2:

Which of the following protocols is the primary infrastructure that creates the Internet?

NAT

TCP/IP

HTML

DNS

The TCP/IP protocol allowed computers to share information outside their network, which contributed to the Internet as we know it today.

Question 3:

What are the limitations of the IPv4 protocol?

Does not have any limitations.

It's a slow protocol.

Its maximum number of IP addresses has been reached.

It's obsolete.

The IPv4 protocol has reached the maximum number of IP addresses available to assign

Question 4:

What invention allows people to share more information than just text on the internet?

NAT

IPv4

TCP/IP

The World Wide Web

In the 1990s, Tim Berners-Lee invented the World Wide Web. It utilized different protocols for displaying information in web pages and became the predominant way of communication in accessing the Internet.

Question 5:

How have the IPv4 limitations been solved? (select all that apply)

By creating more IPv4 address

By implementing the IPv6 protocol

By using Network Address Translation

By using DNS

IPv6 protocol has been slowly adopted. IPv6 addresses consist of 128 bits, four times the amount that IPv4 uses. Which means more devices can have IP addresses.

NAT lets organizations use one public IP address and many private IP addresses within the network.