

- Networking Basics - Networking Basics

1. How long is an IPv6 address? **IPV4 = 20 TO 60 BYTES LONG**

- [A.](#) 32 bits
- [B.](#) 128 bytes
- [C.](#) 64 bits
- [D.](#) **128 bits**

Answer: Option D

Explanation:

An IPv6 address is 128 bits long.

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2. What flavor of Network Address Translation can be used to have one IP address allow many users to connect to the global Internet?

- [A.](#) NAT
- [B.](#) Static
- [C.](#) Dynamic
- [D.](#) **PAT**

Answer: Option D

Explanation:

Port Address Translation (PAT) allows a one-to-many approach to network address translation.

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3. What are the two main types of access control lists (ACLs)?

- 1. **Standard**
 - 2. IEEE
 - 3. **Extended**
 - 4. Specialized
- [A.](#) **1 and 3**
 - [B.](#) 2 and 4
 - [C.](#) 3 and 4
 - [D.](#) 1 and 2

Answer: Option A

Explanation:

Standard and extended access control lists (ACLs) are used to configure security on a router.

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4. What command is used to create a backup configuration?

[A.](#) `copy running backup`

[B.](#) `copy running-config startup-config`

[C.](#) `config mem`

[D.](#) `wr mem`

Answer: Option B

Explanation:

The command to back up the configuration on a router is `copy running-config startup-config`.

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5. You have 10 users plugged into a hub running 10Mbps half-duplex. There is a server connected to the switch running 10Mbps half-duplex as well. How much bandwidth does each host have to the server?

[A.](#) 100 kbps

[B.](#) 1 Mbps

[C.](#) 2 Mbps

[D.](#) 10 Mbps

Answer: Option D

Explanation:

Each device has 10 Mbps to the server.

Which of the following is private IP address?

[A.](#) 12.0.0.1

[B.](#) 168.172.19.39

[C.](#) 172.15.14.36

[D.](#) 192.168.24.43

Answer: Option D

Explanation:

Class A private address range is 10.0.0.0 through 10.255.255.255. Class B private address range is 172.16.0.0 through 172.31.255.255, and Class C private address range is 192.168.0.0 through 192.168.255.255.

What is the address range of a Class B network address in binary?

A. 01xxxxxx

B. 0xxxxxxx

C. 10xxxxxx

D. 110xxxxx

Answer: Option **C**

Explanation:

The range of a Class B network address is 128-191. This makes our binary range 10xxxxxx.