WEEK 12 PRACTICAL WORKSHEET

**NAME: An Truong CLASS DAY & TIME:**

**Lab – IPv6 Addresses**

##### Part 1: Identify the Different Types of IPv6 Addresses

##### Step 2: Match the IPv6 address to its type.

|  |  |  |  |
| --- | --- | --- | --- |
| IPv6 Address | Answer  (write the correct answer below from the choices given on the right) |  | Answer Choices |
| 2001:0DB8:1:ACAD::FE55:6789:B210 | b. Global unicast address |  | a. Loopback address |
| ::1 | a. Loopback address |  | b. Global unicast address |
| FC00:22:A:2::CD4:23E4:76FA | d. Unique-local address |  | c. Link-local address |
| 2033:DB8:1:1:22:A33D:259A:21FE | b. Global unicast address |  | d. Unique-local address |
| FE80::3201:CC01:65B1 | c. Link-local address |  | e. Multicast address |
| FF00:: | e. Multicast address |  |  |
| FF00::DB7:4322:A231:67C | e. Multicast address |  |  |
| FF02::2 | e. Multicast address |  |  |

##### Part 2: Practice IPv6 Address Abbreviation

##### Step 2: Practice compressing and decompressing IPv6.

Using the rules of IPv6 address abbreviation given in Step 1, either FULLY compress or FULLY decompress the following addresses: [the fully means apply ALL the applicable rules given in Part 3 Step 1 of the practical pdf]

1. 2002:0EC0:0200:0001:0000:04EB:44CE:08A2

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2002:EC0:200:1::4EB:44CE:8A2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. FE80:0000:0000:0001:0000:60BB:008E:7402

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_FE80::1:0:60BB:8E:7402\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. FE80::7042:B3D7:3DEC:84B8

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ FE80:0000:0000:0000:7042:B3D7:3DEC:84B8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. FF00::

\_\_\_\_\_\_\_\_\_FF00:0000:0000:0000:0000:0000:0000:0000\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2001:0030:0001:ACAD:0000:330E:10C2:32BF

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_2001:30:1:ACAD::330E:10C2:32BF \_\_\_\_\_\_\_\_\_\_\_\_

**As a review of some of important CLI commands, fill in the following table with the correct**

**Commands.**

|  |  |
| --- | --- |
| **Configuration needed** | **Command used** |
| Enable (enter) privileged EXEC mode | enable |
| Set the device hostname as **mydevice** | hostname mydevice |
| Disable DNS lookup | no ip domain-lookup |
| Set the privileged EXEC encrypted password as **class** | Enable secret class |
| Set the console password as **cisco** and enable login | Password cisco  login |
| Set the VTY password as **cisco** and enable login | Line vty 0 4  Password cisco  Login |
| Encrypt plaintext passwords | Service password-encryption |
| Create a banner | Banner motd ‘This is a banner’ |
| Configure and activate the router’s G0/1 interface | Interface gigabitethernet 0/1  No shut |
| Configure the default SVI (VLAN 1) on a switch | Interface vlan 1 |
| Configure the default gateway of a switch | Ip default-gateway |