

## Graded Assessments

### Quiz : IPv6 Compressions



IPv6 Compression  
Graded Quiz • 30 min



Correct

Good job! The IP Address has been compressed correctly.

00eb:0000:0000:0000:d8c1:0946:0272:879

eb::d8c1:946:272:879

Check

Question 1 of 10



IPv6 Compression  
Graded Quiz • 30 min



Correct

Good job! The IP Address has been compressed correctly.

9930:cafa:0000:0052:04cc:7b7a:0037:27e6

9930:cafa::52:4cc:7b7a:37:27e6

Check

Question 2 of 10





## IPv6 Compression

Graded Quiz • 30 min



Correct

Good job! The IP Address has been compressed correctly.

2b06:0000:0000:1f2b:d77f:0000:0000:89ce

2b06::1f2b:d77f:0:0:89ce

Check

Question 3 of 10



## IPv6 Compression

Graded Quiz • 30 min



Correct

Good job! The IP Address has been compressed correctly.

7d2b:00a9:a0c4:0000:a772:00fd:a523:0358

7d2b:a9:a0c4::a772:fd:a523:358

Check

Question 4 of 10





## IPv6 Compression

Graded Quiz • 30 min



Correct

Good job! The IP Address has been compressed correctly.

8bfa:99f0:d4c5:0b8c:0f6f:04df:2804:283d

8bfa:99f0:d4c5:b8c:f6f:4df:2804:283d

Check

Question 5 of 10



## IPv6 Compression

Graded Quiz • 30 min

Click the Expand button (shown below) to show the full screen of the activity.



Correct

Good job! The IP Address has been compressed correctly.

0e56:11c2:0e75:8d23:3528:7e0d:419b:bdce

e56:11c2:e75:8d23:3528:7e0d:419b:bdce

Check

Question 6 of 10





## IPv6 Compression

Graded Quiz • 30 min



Correct

Good job! The IP Address has been compressed correctly.

5d66:5ec9:0046:0000:2576:004f:7159:0639

5d66:5ec9:46::2576:4f:7159:639

Next IP

Check

Question 7 of 10



## IPv6 Compression

Graded Quiz • 30 min



Correct

Good job! The IP Address has been compressed correctly.

558c:0000:0000:d367:7c8e:1216:0000:66be

558c::d367:7c8e:1216:0:66be

Check

Question 8 of 10





## IPv6 Compression

Graded Quiz • 30 min



Correct

Good job! The IP Address has been compressed correctly.

ad93:a0e4:a9ce:32fc:cba8:15fe:ed90:d768

ad93:a0e4:a9ce:32fc:cba8:15fe:ed90:d768

Check

Question 9 of 10



## IPv6 Compression

Graded Quiz • 30 min



Great Job!

You've successfully compressed all ten IPv6 addresses. You may continue and submit the quiz

00c8:b434:06ee:ec2f:03c9:01ce:765d:a66b

c8:b434:6ee:ec2f:3c9:1ce:765d:a66b

Check

Question 10 of 10



### Quiz : Troubleshooting and the Future of Networking

- 1) When you send an echo request message with the ping program, a successful attempt will return a(n)\_\_\_\_\_ message.
  - a) Pong
  - b) Echo reply**
  - c) Blank

- d) error
- 2) One of Google's public DNS servers is 8.8.8.8. The other one is \_\_\_\_\_.
  - a) 0.0.0.0
  - b) 255.255.255.255
  - c) **8.8.4.4**
- 3) An organization responsible for assigning individual domain names to others organizations or individuals is known as a(n)\_\_\_\_\_.
  - a) **DNS registrar**
  - b) Internet authority
  - c) Autonomous system
  - d) Government
- 4) Following rules of compaction, the IPv6 address 2001:0db8:0000:0000:0000:ff00:0012:3456 could also be written as \_\_\_\_\_.
  - a) 21;db8:ff:12:3456
  - b) **2001:db8:ff00:12:3456**
  - c) ::1
  - d) 0000:0000:0000:0000:0000:0000:0000:0001
- 5) For all IPv6 addresses, the network ID is always the first \_\_\_\_ bits.
  - a) 16
  - b) 32
  - c) **64**
  - d) 128
- 6) A cyclical redundancy check (CRC) is an example of what type of built-in protocol mechanism?
  - a) Time to Live (TTL) expiration
  - b) Misconfiguration error
  - c) Error recovery
  - d) **Error detection**
- 7) Most public Domain Name Servers (DNS) are available globally through which technology ?
  - a) Time to live (TTL) field
  - b) Echo request
  - c) **Anycast**
  - d) Hosts file
- 8) You need to prove ownership of a domain name for an upcoming transfer to a new registrar. Which Domain Name System(DNS) record do you create to prove ownership ?
  - a) Text (TXT)
  - b) **Name server (NS)**
  - c) Service (SRV)
  - d) Canonical Name(CNAME)
- 9) As an IT decision maker, you plan to satisfy business needs by using software as a service. Which option do you deploy ?
  - a) **Office 365**
  - b) Virtual firewall
  - c) Windows Server 2019

- d) Linux workstation
- 10) How many zeros are found at the beginning of an Internet Protocol (IP) v6 address that correlate to a v4 address ?
- a) 40
  - b) 32
  - c) 80**
  - d) 128
- 11) The first field of an internet control message protocol packet specifies the message type. Which choices represent message type examples ? Check all that apply.
- a) Destination network unreachable
  - b) Destination port unreachable
  - c) Time exceeded**
  - d) Destination unreachable**
- 12) When registering a new domain name, either the registrar's servers or self-owned servers can be used as name servers. What function will the name servers provide for the domain ?
- a) Address reservation
  - b) Error recovery
  - c) Domain Transfer
  - d) Authoritative**
- 13) A company runs sensitive technologies locally, while entrusting less-sensitive technologies to a broader user base. Which cloud delivery model is being used ?
- a) Private
  - b) Community
  - c) Public
  - d) Hybrid**
- 14) Internet Protocol (IP) v6 addresses are written out in which format ?
- a) 6 groups of 32 bits
  - b) 8 groups of 16 bits**
  - c) 4 groups of 16 bits
  - d) 8 groups of 12 bits
- 15) When the ping command is used, output is similar across operating systems. Which two values are displayed as part of the output ? Check all that apply.
- a) Round-trip time**
  - b) Port number
  - c) Gateway address
  - d) Message byte size**
- 16) What size is an Internet Protocol (IP) v6 payload field ?
- a) 16- bit**
  - b) 8- bit
  - c) 20- bit
  - d) 32- bit