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Come Hardin Charley Plant Franks
      Adjutiligate of Sections of Assessment State Section Assessment
       Darlick is a stroken to which beam of the OHE model?
    C. Transport layer
    D Application favore
   I The first three bits of a class it IP address in the classified naturals addressing start with
   10
  C 110
 D 1110

    If an II' address has a netmask of 255.255.252.0, how many bits are used for denoting the subnet?

A. 20
```

B 21

C 22

D. 23

- 4. For a subnet 192 168 60.0/24, which of the following IP address is the broadcast IP address?
- A. 192.168.60.1
- B. 192.168.60.2
- 192.168.60.255
- D. None of the above
- 5. Which of the following Docker command is used for displaying both stopped and running contain
- A. docker ps -a
- B. docker ps
- C. docker Is -a
- D. docker Is
- 6. Which section in a docker-compose.yml file lists all the containers that we want to build and
- A. services
- B. containers
- C. networks
- images
- Which of the following is a correct way to use Scapy to create TCP packets for destina 0.10.10.10, ports 200-300?

```
A par - 174da - 10 10 10 10 10 TO TO Trapon - (200, 300))
                  11 phr - 17 dur - 10 10 10 10 10 TCP dport - [200, 300])
                 Pks - Prdu - 10.10.10.10 VTC P(dpost - (200, 300))
                D pks - Dyder - 10 10 10 10 10) TCP(dpost - (200, 300))
              # RMI' is a protocol in which layer of OSI model?
            A Link layer
          H Network layer
         C Transport layer
       D. Application layer
     9. In an Ethernet frame, the following code in the type header indicates an ARP packet?
  A. 0x8000
 B. 0x8060
C. 0x0800
0x0806
In an IP datagram, which of the following code in the protocol header indicates the payload of the IP
following is a correct command to use netcat to make a TCP server listening at port
```

nmand is correct to set aa:bb:cc:dd:ee:ff as the MAC address for 10.0.2.10

- A SOCK DGRAM
- B SOCK STREAM
- C SOCK RAW
- D SOCK PACKET
- 15. Which of the following is the correct hof filter to show all TCP packets from host 192 168.1 \$1, ports 100 to 200"
- A. top and port 100-200 and host 192 168 1.81
- B. top and portrange 100-200 and bost 192 168 1 81
- C. top and portrange 100-200 and are host 192,168 1.81
- D. tep and port 100-200 and src bost 192 168 1.81
 - 16. Which of the following cannot be a valid MAC address?
- 02:42:57:41 59:8g
- B 00 0c 29:8b:d9:03
- C 02:42:57 41:59 8d
- D. 02:42 02:e4:80:41
- 17. Which of the following statement about checksium is not correct?
- A. When UDP's checksum field is set to be 0, the receiver will ignore the checksum field
- B. TCP's checksum is calculated on both the TCP headers and data
- C. IP's checksum is calculated on both the IP headers and data D. UDP's checksum is calculated on both the UDP headers and data
- 18. What interface will be used to route packets to destination 10.10.20 10
- 1: 0.0.0.0/0 dev interface-a
- II: 10.10.0.0/16 dev interface-b
- III: 10.10.20.0/24 dev interface-c
- IV: 10.10.10.20/32 dev interface d
- A. interface-a
- B. interface-b
- interface-c
- D. interface-d
- 19. Which of the following statement about gratuitous ARP request is not correct?
- A. The destination MAC is the broadcast address ff ff ff ff ff ff in both ARP header and Ethernet header
- B. The source MAC is the broadcast address ff:ff:ff:ff:ff:ff:ff:ff in both ARP header and Ethernet header
- The source and destination IP are both set to the IP of the machine issuing the gratuitous ARP D. Ordinarily, no reply packet will occur.
- 20. You used Scapy to craft a TCP packet
- >>> pkt = IP(dst='153.91.1.10')/TCP()"Hello"

Which of the following statement(s) is correct to set the TCP's flag to SYN?

```
A phi frage - T
D PROTECT PROFITS
 1. phi business It for flags: 5
21. Which of the Schreeping materioral about cortical machine and contained in red cortex?
D Book B and C
A. Each VM has the over 100 whole all continuous share a neighe CO fluor the host essentiate.
 M. VM requires much more system menuices task as manuely compared with their of compared
 C. VM side in larger than operation
22 Which of the Boltowing stamment displays the load detailed information about a packet pk?
). VM is less secure than container
A somplet
il and phi summary)
C xxx pkt.shou(i
() san bights
21. Azome a packet is cressed as follows
PAL - TRAVECTORY SHOW:
```

Which of the following statement is correct to retrieve the data 'Hello'"

A pkt payload payload payload

B gad.psyload payload

pki payland load

D pkt payload payload load

24. Blased on the routing table below from a router, which of the following statement is incorrect?

1 ip route

default via 18.6.2.2 dev ens31 proto static setric 180 18.6.2.8/24 dev ens31 proto kernel scope Link are 18.8.2.128 setric 180

165 254.0 8/16 Sev ens33 scope link metric 1800

192 168 60.0/24 dev ens38 preto hernet neuge tink sec 192,165.60 128 metric 105

A. To route the packets to the 10.0-2.0/24 network, interface crosss will be selected and its associated IP in 10.0-2.2

10.02.2

B. To route the packets to the 192.168 80.024 network, interface exalls will be infected and its associated.

IP is 192 168.60 128

C. The default gateway router is at 10.0.2.2

D. 169.254.0.036 are the link local addresses which are not routable.

25 Based on the country table below from a hort, if a student created a packet pix = IP(dsz=192.168.60.3) and sent it out from the host using Scapy, what will be the output for prantiplet(IP) are)?

\$ ip route default via 18:8.2.2 dev ecs31 proto static metric 100 18.8.2.0/24 dev ens33 proto kermel scope link src 10.6.2 128 metric 180 169.254.0.0/16 dev ens33 scope link metric 1800 192.168.68,8/24 dev ens38 proto kermel scope link src 192.168.60 128 metric 180

```
A 127 0 0 1
11 10 0 2 2
192 168 60 178
10 10 0 2 128
```

26. Which of the following statement about TCP and UDP is incorrect?

A TCP is a connection oriented protocol while UDP is a consection less protocol

ft. UDP's speed is faster than ICP

C TCP maintains the order of the packets while UDP does not
 Both TCP and UDP can be used for broadcast.

27 Which of the following attack used the IP directed broadcast?

A. Smort attack

B. Ping of the death attack

C Teardrop attack

D. ICMP re-direct attack

laton is a student in the CYBR 5800 class. He is working on the packet smilling and specing lab to specific an ICMP echo reply packet. Please bein but to fill the eight blanks in the following Python script.

28 What are values in blanks 1 and 4, respectively?

A. I. Z B. S. O

C. 0. B

D. 5. 8

```
28. What are values to bigoing 2 and 2, respectively?
  A patient plane.
  De pair nes par det
  pasting and pasting my
  Di parette on parties on
  for Melian are emission or bilance & most & respectively.
  A spar of par sent
 or parties of parties we
 C phylic MPI at, phylic MFI was
 is pas of, past to Til seed
 11. What are values in blanks ? and $, respectively?
 ip/kompiliata, spricings
 Il springeload general
 C spraceprosshood, spraceprilate
 D springpidate, springsperioad
 Visual to a student in the CVBR 5909 class. He is working on the ARP cache potenting lab to possion
 10.0.2 129's ARP cache using the gratuitous ARP request. His goal to to put the following fake
 information to 100 2 129's cache
 10 0 2 128 - an bb ex dd ee ff
 Please help from to fell the seven blanks in the following Python script
 #!/usr/bin/python3
 from scapy all import .
VM A IP = 10.0.2.129
VM A MAC = '86:8c:29:9d:ed:9c'
VICTIM IF + "18.6.2.176"
FARE MAC = 'aa:bb:cc:dd:ce:ff'
ether = Ether(src= 1 dst= 2
                                                   psrc= 5 , past= 6 , op= 7 )
arp = ARP(hwsrc= 3 , hwdst= 4
pkt = ether/arp
sendp(pkt)
12. What are values in blanks 1 and 3, respectively?
A. VM. A. MAC, FAKE MAC
```

B VM_A MAC, VM_A MAC FAKE_MAC, FAKE_MAC D FAKE_MAC, VM_A MAC

```
U STREET, VM A MAKE
 A VM A.W. VICTOM OF
 N VM A IP, VM A IP
    ON THA IF, VICTOM IN
    VICTIM IF, VM A JP
  ye. What is the wakes in bland
```

12.3