Home Hartha Charley Prantamental Adaptitiple Chatter chance the heat source 1. Switch in a device in which layer of the OHI model? A. Link Surer D. Sterwork Incom C. Transport layer D. Application tayer 2. The first these bits of a class B IP address in the classful network addressing start with B. 10 C. 110 D. 1110 3. If an IP 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 C. 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

D. images

Which of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for destination of the following is a correct way to use Scapy to create TCP packets for the following the following is a correct way to use Scapy to create TCP packets for the following

```
A par - IP(du - '10 10 10 10 10)/TCP(dport - [200, 300])
                  H pks - IP(dst - 10.10.10.10) TCP(dport - [200, 300])
                 C pks - IP(dus - '10.10.10.10') TCP(dport - (200, 300))
                D pls - IP(dst - 10 10 10 10) TCP(dpost - (200, 300))
              8. ICMP is a protocol in which layer of OSI model?
            A Link layer
           Il. 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
```

Inmand 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 bpf filter to show all TCP packets from host 192.168.1.81, ports 100 to 2007
- A. top and port 100-200 and bost 192,168.1.81
- B. tcp and portrange 100-200 and host 192.168.1.81
- C. tcp and portrange 100-200 and src host 192.168.1.81
- D. tep and port 100-200 and src host 192,168.1.81
- 16. Which of the following cannot be a valid MAC address?
- A 02:42:b7:41:b9:8g
- B 00:0e:29:8b:d9:01
- C 02:42:67:41:69:84
- D. 02:42:02:e4:80:41
- 17. Which of the following statement about checksum 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
- C. 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: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
- C. 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.flage = T
```

D PAGICE BAD - 5

C phi hashyon It Pi flage 5

24. Which of the following statement about virtual machine and contacted in red correct) A. Each VM has its over OS whole all containers there a vergle OS from the host machine.

M. VM requires much more system remuters task as memory compared with that of container

C. VM size is larger than container

D. VM is less soons than container

22 Which of the following statement displays the least detailed information about a packet pk?

A marght

(L >>> pkt summary()

C xxx pkt.shout)

() soo bipki)

23. Azueme a packet is crested as follows

pat = IPO/TCPO/Helle/

Which of the following statement is correct to retrieve the data 'Bella'?

A. pkt payload payload payload

B. pkt.psyload psyload

C. pkt.payload.load.

D. pkt payload payload load

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

\$ ip route

default via 18.6.2.2 dev ens33 proto static metric 180

18.8.2.8/24 der ens31 proto kernel scope link src 18.8.2.128 metric 108

169.254.0.0/16 dev ens3) scope link metric 1000

192.165.60.0/24 dev ens38 proto kernel scope link sec 192.168.60.128 metric 100

A. To route the packets to the 10.0.2.0/24 network, interface ens33 will be selected and its associated IP is 10022

B. To route the packets to the 192.168.60.074 network, interface exal8 will be selected and its associated

IP is 192 168 60 128

C. The default gateway router is at 10.0.2.2. D. 169 254 0 0/16 are the link local addresses which are not routable.

25. Based on the routing table below from a host, if a student created a packet plat = IP(dse=192.168.60.3) and sent it out from the host using Scapy, what will be the output for print(pkt[IP].src)?

\$ ip route

default via 18.0.2.2 dev ens33 proto static metric 190 18.8.2.9/24 dev ens33 proto kernel scope link src 18.8.2.128 metric 180

169.254.0.0/16 dev ens33 scope Link metric 1000

197.168.66.8/24 dev ens38 proto kernel scope link arc 197.168.60.178 metric 160

```
A 127.0.0.1
B 10.0.2.2
C 192.168.60.128
D 10.0.2.128
```

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

A. TCP is a connection-oriented protocol while UTIP is a connection less protocol

B. UDP's speed is faster than TCP

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

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

A. Smurf attack

B. Ping of the death attack C. Teardrop attack

D. ICMP re-direct attack

Jason is a student in the CYBR 5800 class. He is working on the packet smilling and spoofing lab to spoof an ICMP echo reply packet. Please help him to fill the eight blanks in the following Python script.

```
#1/usr/bin/python3
```

```
from scapy.all import *

def spoof_pkt(pkt):
    if ICMP in pkt and pkt[ICMP].type == __1 :
        ip = IP(src=_2__, dst=_3__)
        icmp = ICMP(type=__4__, id=_5__, seq=_6_)

if pkt.haslayer(Raw):
        data = pkt[Raw].load
        newpkt = __7__
else:
        newpkt = __B__

send(newpkt)

pkt = sniff(filter='icmp and src host 10.0.2.128', prn=spoof_pkt)
```

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

A. 1, 2 B. 8, 0

C. 0, 8

D. 5. 8

```
29. When are extract in blacks 2 and 3, respectively?
  A pandet pan are
  In past sec. past der
  C. plattry due, players ou
  D. phi(IP) or, phi(IP) do
  10). What now welcom in blanch 5 and 6, respectively?
  A par of par seu
  It panish of harding and
  C participit at participit seq.
  D. pht of, phill CPI seq.
  31. What are values in blanks 7 and 8, respectively?
 A ipricing/data ipricing
 ft spicing-load spining-
 C spricing/payload, spricing/data
 D. ipricospidata, ipricospipayload
 Visual is a student in the CYBR 5800 class. He is working on the ARP cache poisoning tab to poison
 10.0.2 129's ARP cache using the gratuatous ARP request. His goal is to put the following fake
 information to 10.0.2 129's cache.
 10.0.2.128 - na bb cc dd ee ff
 Please help him to fill 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 = '88:8c:29:9d:ed:9c'
 VICTIM IP = '18.6.2.126'
FAKE MAC = 'aa:bb:cc;dd:ee:ff'
ether = Ether(src=_1_, dst=_2_)
arp = ARP(hwsrc=_3_, hwdst=_4_, psrc=_5_, pdst=_6_, op=_7_)
pkt = ether/arp
sendp(pkt)
32. What are values in blanks 1 and 3, respectively?
A. VM_A_MAC, FAKE_MAC
```

B. VM_A_MAC, VM_A_MAC C. FAKE_MAC, FAKE_MAC D. FAKE_MAC, VM_A_MAC

```
YM A MAC, VM A MAC
C TAKE MAC TAKE MAC
D HERREST, VM A MAC
 A VM_A_IP, VICTIM IP
 0. VM A IP, VM A IP
 C. VICTOM IV, VICTOM IP
  D. VICTIM IP, VM A IP
  15. What is the value in black T
```

0.3