Network Engineering 2019 Exercises - Unit 3

0.1   Netmask Calculation

What is the netmask for this network?

> 101.152.0.0/13

Put your answer on a single line in `unit3/answers.txt`, with 160: at the beginning of the line, e.g., `160:255.255.255.0`

What is the netmask for this network?

> 35.87.229.96/27

Put your answer on a single line in `unit3/answers.txt`, with 161: at the beginning of the line, e.g., `161:255.255.255.0`

What is the netmask for this network?

> 57.42.0.0/15

Put your answer on a single line in `unit3/answers.txt`, with 162: at the beginning of the line, e.g., `162:255.255.255.0`

What is the netmask for this network?

> 100.134.0.0/18

Put your answer on a single line in `unit3/answers.txt`, with 163: at the beginning of the line, e.g., `163:255.255.255.0`

What is the netmask for this network?

> 64.0.0.0/2

Put your answer on a single line in `unit3/answers.txt`, with 164: at the beginning of the line, e.g., `164:255.255.255.0`

What is the netmask for this network?

> 2.2.110.192/26

Put your answer on a single line in `unit3/answers.txt`, with 165: at the beginning of the line, e.g., `165:255.255.255.0`

What is the netmask for this network?

> 104.225.32.0/19

Put your answer on a single line in `unit3/answers.txt`, with 166: at the beginning of the line, e.g., `166:255.255.255.0`

What is the netmask for this network?

46.89.0.0/16

Put your answer on a single line in `unit3/answers.txt`, with 167: at the beginning of the line, e.g., `167:255.255.255.0`

What is the netmask for this network?

94.216.0.0/13

Put your answer on a single line in `unit3/answers.txt`, with 168: at the beginning of the line, e.g., `168:255.255.255.0`

What is the netmask for this network?

64.0.128.0/17

Put your answer on a single line in `unit3/answers.txt`, with 169: at the beginning of the line, e.g., `169:255.255.255.0`

What is the netmask for this network?

32.64.175.99/0

Put your answer on a single line in `unit3/answers.txt`, with 170: at the beginning of the line, e.g., `170:255.255.255.0`

What is the netmask for this network?

84.0.0.0/6

Put your answer on a single line in `unit3/answers.txt`, with 171: at the beginning of the line, e.g., `171:255.255.255.0`

What is the netmask for this network?

0.0.0.0/1

Put your answer on a single line in `unit3/answers.txt`, with 172: at the beginning of the line, e.g., `172:255.255.255.0`

What is the netmask for this network?

120.109.88.128/25

Put your answer on a single line in `unit3/answers.txt`, with 173: at the beginning of the line, e.g., `173:255.255.255.0`

What is the netmask for this network?

33.14.143.128/25

Put your answer on a single line in `unit3/answers.txt`, with 174: at the beginning of the line, e.g., `174:255.255.255.0`

What is the netmask for this network?

98.232.0.0/17

Put your answer on a single line in `unit3/answers.txt`, with 175: at the beginning of the line, e.g., `175:255.255.255.0`

What is the netmask for this network?

22.231.227.192/26

Put your answer on a single line in `unit3/answers.txt`, with 176: at the beginning of the line, e.g., `176:255.255.255.0`

What is the netmask for this network?

108.41.31.64/26

Put your answer on a single line in `unit3/answers.txt`, with 177: at the beginning of the line, e.g., `177:255.255.255.0`

What is the netmask for this network?

48.0.0.0/7

Put your answer on a single line in `unit3/answers.txt`, with 178: at the beginning of the line, e.g., `178:255.255.255.0`

What is the netmask for this network?

38.128.0.0/10

Put your answer on a single line in `unit3/answers.txt`, with 179: at the beginning of the line, e.g., `179:255.255.255.0`

What is the netmask for this network?

116.107.64.0/18

Put your answer on a single line in `unit3/answers.txt`, with 180: at the beginning of the line, e.g., `180:255.255.255.0`

What is the netmask for this network?

114.55.120.0/24

Put your answer on a single line in `unit3/answers.txt`, with 181: at the beginning of the line, e.g., `181:255.255.255.0`

What is the netmask for this network?

0.0.0.0/1

Put your answer on a single line in `unit3/answers.txt`, with 182: at the beginning of the line, e.g., `182:255.255.255.0`

What is the netmask for this network?

13.254.128.0/17

Put your answer on a single line in `unit3/answers.txt`, with 183: at the beginning of the line, e.g., `183:255.255.255.0`

What is the netmask for this network?

97.64.0.0/11

Put your answer on a single line in `unit3/answers.txt`, with 184: at the beginning of the line, e.g., `184:255.255.255.0`

What is the netmask for this network?

21.31.0.0/17

Put your answer on a single line in `unit3/answers.txt`, with 185: at the beginning of the line, e.g., `185:255.255.255.0`

What is the netmask for this network?

74.63.6.140/0

Put your answer on a single line in `unit3/answers.txt`, with 186: at the beginning of the line, e.g., `186:255.255.255.0`

What is the netmask for this network?

29.8.0.0/13

Put your answer on a single line in `unit3/answers.txt`, with 187: at the beginning of the line, e.g., `187:255.255.255.0`

What is the netmask for this network?

100.240.135.224/28

Put your answer on a single line in `unit3/answers.txt`, with 188: at the beginning of the line, e.g., `188:255.255.255.0`

What is the netmask for this network?

82.0.0.0/10

Put your answer on a single line in `unit3/answers.txt`, with 189: at the beginning of the line, e.g., `189:255.255.255.0`

What is the netmask for this network?

83.224.0.0/11

Put your answer on a single line in `unit3/answers.txt`, with 190: at the beginning of the line, e.g., `190:255.255.255.0`

What is the netmask for this network?

12.167.93.176/28

Put your answer on a single line in `unit3/answers.txt`, with 191: at the beginning of the line, e.g., `191:255.255.255.0`

What is the netmask for this network?

59.0.0.0/8

Put your answer on a single line in `unit3/answers.txt`, with 192: at the beginning of the line, e.g., `192:255.255.255.0`

What is the netmask for this network?

58.244.0.0/14

Put your answer on a single line in `unit3/answers.txt`, with 193: at the beginning of the line, e.g., `193:255.255.255.0`

What is the netmask for this network?

64.0.0.0/4

Put your answer on a single line in `unit3/answers.txt`, with 194: at the beginning of the line, e.g., `194:255.255.255.0`

What is the netmask for this network?

15.173.184.192/26

Put your answer on a single line in `unit3/answers.txt`, with 195: at the beginning of the line, e.g., `195:255.255.255.0`

What is the netmask for this network?

10.87.127.208/29

Put your answer on a single line in `unit3/answers.txt`, with 196: at the beginning of the line, e.g., `196:255.255.255.0`

What is the netmask for this network?

27.55.244.0/27

Put your answer on a single line in `unit3/answers.txt`, with 197: at the beginning of the line, e.g., `197:255.255.255.0`

What is the netmask for this network?

34.118.111.64/26

Put your answer on a single line in `unit3/answers.txt`, with 198: at the beginning of the line, e.g., `198:255.255.255.0`

What is the netmask for this network?

94.24.0.0/13

Put your answer on a single line in `unit3/answers.txt`, with 199: at the beginning of the line, e.g., `199:255.255.255.0`

0.2   Variable Length Sub-net Masking

What is the VLSM name of the network corresponding to the following?

119.54.21.38 netmask 255.254.0.0

Put your answer on a single line in `unit3/answers.txt`, with 200: at the beginning of the line, e.g., `200:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

5.55.125.126 netmask 255.255.192.0

Put your answer on a single line in `unit3/answers.txt`, with 201: at the beginning of the line, e.g., `201:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

95.61.59.112 netmask 255.255.252.0

Put your answer on a single line in `unit3/answers.txt`, with 202: at the beginning of the line, e.g., `202:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

41.208.165.223 netmask 255.255.192.0

Put your answer on a single line in `unit3/answers.txt`, with 203: at the beginning of the line, e.g., `203:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

55.181.38.210 netmask 248.0.0.0

Put your answer on a single line in `unit3/answers.txt`, with 204: at the beginning of the line, e.g., `204:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

74.44.218.220 netmask 254.0.0.0

Put your answer on a single line in `unit3/answers.txt`, with 205: at the beginning of the line, e.g., `205:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

48.221.149.16 netmask 255.255.255.0

Put your answer on a single line in `unit3/answers.txt`, with 206: at the beginning of the line, e.g., `206:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

118.147.27.132 netmask 255.255.252.0

Put your answer on a single line in `unit3/answers.txt`, with 207: at the beginning of the line, e.g., `207:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

79.164.181.161 netmask 255.255.255.224

Put your answer on a single line in unit3/answers.txt, with 208: at the beginning of the line, e.g., 208:10.0.0.0/8

What is the VLSM name of the network corresponding to the following?

87.135.213.36 netmask 255.255.128.0

Put your answer on a single line in unit3/answers.txt, with 209: at the beginning of the line, e.g., 209:10.0.0.0/8

What is the VLSM name of the network corresponding to the following?

19.47.86.31 netmask 255.255.255.248

Put your answer on a single line in unit3/answers.txt, with 210: at the beginning of the line, e.g., 210:10.0.0.0/8

What is the VLSM name of the network corresponding to the following?

87.15.208.107 netmask 255.255.248.0

Put your answer on a single line in unit3/answers.txt, with 211: at the beginning of the line, e.g., 211:10.0.0.0/8

What is the VLSM name of the network corresponding to the following?

105.26.191.90 netmask 255.255.255.248

Put your answer on a single line in unit3/answers.txt, with 212: at the beginning of the line, e.g., 212:10.0.0.0/8

What is the VLSM name of the network corresponding to the following?

34.80.145.16 netmask 255.255.255.0

Put your answer on a single line in unit3/answers.txt, with 213: at the beginning of the line, e.g., 213:10.0.0.0/8

What is the VLSM name of the network corresponding to the following?

     27.126.123.23 netmask 255.255.255.240

Put your answer on a single line in `unit3/answers.txt`, with 214: at the beginning of the line, e.g., `214:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

     15.71.205.165 netmask 255.255.255.248

Put your answer on a single line in `unit3/answers.txt`, with 215: at the beginning of the line, e.g., `215:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

     115.162.102.140 netmask 240.0.0.0

Put your answer on a single line in `unit3/answers.txt`, with 216: at the beginning of the line, e.g., `216:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

     84.41.171.239 netmask 255.255.255.240

Put your answer on a single line in `unit3/answers.txt`, with 217: at the beginning of the line, e.g., `217:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

     54.190.240.218 netmask 255.252.0.0

Put your answer on a single line in `unit3/answers.txt`, with 218: at the beginning of the line, e.g., `218:10.0.0.0/8`

What is the VLSM name of the network corresponding to the following?

     23.13.101.78 netmask 255.240.0.0

Put your answer on a single line in `unit3/answers.txt`, with 219: at the beginning of the line, e.g., `219:10.0.0.0/8`

0.3 Configure Network Interfaces using the ifconfig and ip commands

What is `ip` command sequence equivalent to the following `ifconfig` command (apply any options in the order listed)?

ifconfig eth0 121.221.107.179 netmask 255.192.0.0 txqueuelen 2790

Put your answer on a single line in `unit3/answers.txt`, with 220: at the beginning of the line, e.g., `220:ip blah blah; ip again with other options; ip again with yet other options`

What is the `ifconfig` command to setup interface eth0 with the following network settings (apply any options in the order listed)?

32.215.185.181 netmask 32.215.128.0/17, PPP remote address 82.247.32.198, TX queue length = 3975

Put your answer on a single line in `unit3/answers.txt`, with 221: at the beginning of the line, e.g., `221:ifconfig moo0 1.2.3.4 netmask 255.0.0.0 -broadcast`

What is `ip` command sequence to setup interface eth0 with the following network settings (apply any options in the order listed)?

24.98.89.242 netmask 24.98.89.242/31, in promiscuous mode

Put your answer on a single line in `unit3/answers.txt`, with 222: at the beginning of the line, e.g., `222:ip blah blah; ip again with other options; ip again with yet other options`

What is `ifconfig` command equivalent to the following `ip` command sequence (apply any options in the order listed)?

ip address add 100.99.195.99/19 dev eth0; ip link set dev eth0 arp off

Put your answer on a single line in `unit3/answers.txt`, with 223: at the beginning of the line, e.g., `223:ip blah blah; ip again with other options; ip again with yet other options`

What is `ifconfig` command equivalent to the following `ip` command sequence (apply any options in the order listed)?

ip address add 20.76.148.128/15 dev eth0ip link set dev eth0 mtu 911; ip link set dev eth0 promisc on

Put your answer on a single line in `unit3/answers.txt`, with 224: at the beginning of the line, e.g., `224:ip blah blah; ip again with other options; ip again with yet other options`

What is `ifconfig` command equivalent to the following `ip` command sequence (apply any options in the order listed)?

> ip address add 124.217.67.33/28 dev eth0; ip link set dev eth0 promisc
> on

Put your answer on a single line in `unit3/answers.txt`, with 225: at the beginning of the line, e.g., `225:ip blah blah; ip again with other options; ip again with yet other options`

What is the `ifconfig` command to setup interface eth0 with the following network settings (apply any options in the order listed)?

> 108.77.250.164 netmask 108.77.250.164/31, PPP remote address 64.247.143.243

Put your answer on a single line in `unit3/answers.txt`, with 226: at the beginning of the line, e.g., `226:ifconfig moo0 1.2.3.4 netmask 255.0.0.0 -broadcast`

What is `ifconfig` command equivalent to the following `ip` command sequence (apply any options in the order listed)?

> ip address add 30.4.145.205/17 dev eth0; ip link set eth0 down

Put your answer on a single line in `unit3/answers.txt`, with 227: at the beginning of the line, e.g., `227:ip blah blah; ip again with other options; ip again with yet other options`

What is the `ifconfig` command to setup interface eth0 with the following network settings (apply any options in the order listed)?

> 58.132.145.22 netmask 58.132.145.16/28, MTU = 1543, TX queue
> length = 4153

Put your answer on a single line in `unit3/answers.txt`, with 228: at the beginning of the line, e.g., `228:ifconfig moo0 1.2.3.4 netmask 255.0.0.0 -broadcast`

What is `ip` command sequence equivalent to the following `ifconfig` command (apply any options in the order listed)?

> ifconfig eth0 59.36.242.60 netmask 240.0.0.0 promisc

Put your answer on a single line in `unit3/answers.txt`, with 229: at the beginning of the line, e.g., `229:ip blah blah; ip again with other options; ip again with yet other options`

What is `ip` command sequence equivalent to the following `ifconfig` command (apply any options in the order listed)?

ifconfig eth0 113.105.118.101 netmask 248.0.0.0 down

Put your answer on a single line in `unit3/answers.txt`, with 230: at the beginning of the line, e.g., `230:ip blah blah; ip again with other options; ip again with yet other options`

What is `ip` command sequence equivalent to the following `ifconfig` command (apply any options in the order listed)?

ifconfig eth0 59.216.0.0 netmask 255.224.0.0 -arp

Put your answer on a single line in `unit3/answers.txt`, with 231: at the beginning of the line, e.g., `231:ip blah blah; ip again with other options; ip again with yet other options`

What is `ip` command sequence equivalent to the following `ifconfig` command (apply any options in the order listed)?

ifconfig eth0 108.93.195.196 netmask 255.255.254.0 -arp txqueuelen 4395

Put your answer on a single line in `unit3/answers.txt`, with 232: at the beginning of the line, e.g., `232:ip blah blah; ip again with other options; ip again with yet other options`

What is `ip` command sequence to setup interface eth0 with the following network settings (apply any options in the order listed)?

93.39.197.236 netmask 93.39.197.0/24, MTU = 1509

Put your answer on a single line in `unit3/answers.txt`, with 233: at the beginning of the line, e.g., `233:ip blah blah; ip again with other options; ip again with yet other options`

What is `ifconfig` command equivalent to the following `ip` command sequence (apply any options in the order listed)?

ip address add 114.143.172.177/15 dev eth0; ip link set eth0 down; ip link set dev eth0 promisc on; ip link set dev eth0 txqueuelen 709

Put your answer on a single line in `unit3/answers.txt`, with 234: at the beginning of the line, e.g., `234:ip blah blah; ip again with other options; ip again with yet other options`

What is `ip` command sequence to setup interface eth0 with the following network settings (apply any options in the order listed)?

14.118.99.131 netmask 14.118.96.0/22

Put your answer on a single line in `unit3/answers.txt`, with 235: at the beginning of the line, e.g., `235:ip blah blah; ip again with other options; ip again with yet other options`

What is `ip` command sequence to setup interface eth0 with the following network settings (apply any options in the order listed)?

115.251.243.54 netmask 115.251.224.0/19, in promiscuous mode

Put your answer on a single line in `unit3/answers.txt`, with 236: at the beginning of the line, e.g., `236:ip blah blah; ip again with other options; ip again with yet other options`

What is the `ifconfig` command to setup interface eth0 with the following network settings (apply any options in the order listed)?

39.7.230.34 netmask 39.0.0.0/12, without ARP, in promiscuous mode, TX queue length = 2442

Put your answer on a single line in `unit3/answers.txt`, with 237: at the beginning of the line, e.g., `237:ifconfig moo0 1.2.3.4 netmask 255.0.0.0 -broadcast`

What is `ip` command sequence equivalent to the following `ifconfig` command (apply any options in the order listed)?

ifconfig eth0 36.158.21.172 netmask 255.0.0.0

Put your answer on a single line in `unit3/answers.txt`, with 238: at the beginning of the line, e.g., `238:ip blah blah; ip again with other options; ip again with yet other options`

What is the `ifconfig` command to setup interface eth0 with the following network settings (apply any options in the order listed)?

82.159.244.236 netmask 64.0.0.0/2, MTU = 3126, TX queue length = 3921

Put your answer on a single line in `unit3/answers.txt`, with 239: at the beginning of the line, e.g., `239:ifconfig moo0 1.2.3.4 netmask 255.0.0.0 -broadcast`

0.4 Configure Network Interfaces using /etc/network/interfaces file

0.4.1 Prepare unit3/iface0-solution.txt

Produce an `interfaces` file in `unit3/iface0-solution.txt`, that contains the following:

- A template called moths0, that specifies an MTU of 6100 and MAC address 08:32:B4:99:E2:34.

- A template called moths1, that specifies an MTU of 2310 and MAC address E0:57:69:10:95:96.

- A template called castle2, that specifies an MTU of 5058 and MAC address E5:6A:85:CD:8D:9B.

- An interface named ftdi0, with IPv4 address 75.133.130.158 and netmask 255.240.0.0, and inherits the template moths0.

- An interface named eth1, with IPv4 settings configured by DHCPand inherits the template moths0.

- An interface named wlan2, with IPv4 address 120.124.224.79 and netmask 255.255.255.128.

0.4.2 Prepare unit3/iface1-solution.txt

Produce an `interfaces` file in `unit3/iface1-solution.txt`, that contains the following:

- A template called moths0, that specifies an MTU of 718 and MAC address 3E:79:E8:00:5E:52.

- A template called ruins1, that specifies an MTU of 5207 and MAC address DF:20:66:7D:4D:E4.

- An interface named ftdi0, with IPv4 address 100.58.87.230 and netmask 240.0.0.0, and inherits the template ruins1.

- An interface named ftdi1, with IPv4 settings configured by DHCPand inherits the template ruins1.

- An interface named ftdi2, with IPv4 settings configured by DHCP.

0.4.3 Prepare unit3/iface2-solution.txt

Produce an `interfaces` file in `unit3/iface2-solution.txt`, that contains the following:

- A template called castle0, that specifies an MTU of 2922 and MAC address 82:35:8C:AE:14:AC.

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- A template called wealth1, that specifies an MTU of 1702 and MAC address F9:F8:EA:DF:9D:7D.

- An interface named eth0, with IPv4 settings configured by DHCP.

- An interface named wlan1, with IPv4 address 47.41.138.74 and netmask 255.255.255.0.

- An interface named ftdi2, with IPv4 settings configured by DHCP.

- An interface named wlan3, with IPv4 settings configured by DHCP.

- An interface named eth4, with IPv4 address 83.133.145.1 and netmask 248.0.0.0.

- An interface named ftdi5, with IPv4 settings configured by DHCPand inherits the template wealth1.

- An interface named wlan6, with IPv4 settings configured by DHCPand inherits the template wealth1.

0.4.4   Prepare unit3/iface3-solution.txt

Produce an `interfaces` file in `unit3/iface3-solution.txt`, that contains the following:

- A template called castle0, that specifies an MTU of 5050 and MAC address D4:0E:44:9A:6E:FC.

- A template called moths1, that specifies an MTU of 6741 and MAC address E9:BF:E1:EA:C4:86.

- An interface named eth0, with IPv4 address 126.155.244.195 and netmask 224.0.0.0, and inherits the template moths1.

- An interface named ftdi1, with IPv4 address 30.126.38.214 and netmask 128.0.0.0, and inherits the template moths1.

- An interface named wlan2, with IPv4 address 117.210.69.178 and netmask 255.255.192.0.

- An interface named wlan3, with IPv4 settings configured by DHCPand inherits the template castle0.

- An interface named jam4, with IPv4 address 23.39.71.79 and netmask 255.192.0.0.

- An interface named ftdi5, with IPv4 address 113.168.210.44 and netmask 255.255.254.0.

- An interface named jam6, with IPv4 address 100.83.204.174 and netmask 255.255.0.0.

0.4.5 Prepare unit3/iface4-solution.txt

Produce an `interfaces` file in `unit3/iface4-solution.txt`, that contains the following:

- A template called moths0, that specifies an MTU of 293 and MAC address 95:C2:37:67:44:58.

- A template called castle1, that specifies an MTU of 7440 and MAC address BD:4F:D2:1E:F7:22.

- An interface named wlan0, with IPv4 settings configured by DHCP.

- An interface named eth1, with IPv4 settings configured by DHCPand inherits the template castle1.

- An interface named jam2, with IPv4 address 72.104.59.163 and netmask 255.254.0.0.

0.5 Create and delete routes

0.5.1 Create files `unit3/routes0add.sh` and `unit3/routes0del.sh` that contains commands that will respective establish and delete the following routes

- 80.36.18.128/25 via the interface to your 2nd VM

- 96.11.11.240/29 via the interface to your 2nd VM

- 13.253.0.0/17 via the interface to your 2nd VM

- 125.227.58.128/25 via the interface to your 2nd VM

- 126.153.123.86/31 via the IP address of your 2nd VM

- 15.66.176.0/20 via the IP address of your 2nd VM

0.5.2 Create files `unit3/routes1add.sh` and `unit3/routes1del.sh` that contains commands that will respective establish and delete the following routes

- 56.225.106.128/26 via the IP address of your 2nd VM

- 117.197.162.48/31 via the IP address of your 2nd VM

- 115.218.48.0/22 via the interface to your 2nd VM

- 65.170.194.0/24 via the IP address of your 2nd VM

- 16.155.60.0/26 via the IP address of your 2nd VM

- 111.185.66.0/24 via the IP address of your 2nd VM

0.5.3 Create files `unit3/routes2add.sh` and `unit3/routes2del.sh` that contains commands that will respective establish and delete the following routes

- 99.247.99.0/24 via the IP address of your 2nd VM

- 74.89.255.112/30 via the IP address of your 2nd VM

- 17.165.208.0/20 via the IP address of your 2nd VM

- 14.26.120.0/21 via the IP address of your 2nd VM

- 17.192.96.0/23 via the IP address of your 2nd VM

- 116.131.115.0/25 via the IP address of your 2nd VM

0.5.4 Create files `unit3/routes3add.sh` and `unit3/routes3del.sh` that contains commands that will respective establish and delete the following routes

- 52.70.224.0/20 via the IP address of your 2nd VM

- 25.229.192.0/19 via the interface to your 2nd VM

- 81.30.48.128/25 via the IP address of your 2nd VM

- 20.0.0.0/16 via the IP address of your 2nd VM

- 35.145.0.0/17 via the IP address of your 2nd VM

- 35.242.128.0/17 via the interface to your 2nd VM

0.5.5 Create files `unit3/routes4add.sh` and `unit3/routes4del.sh` that contains commands that will respective establish and delete the following routes

- 40.145.160.0/21 via the interface to your 2nd VM

- 90.111.80.128/26 via the IP address of your 2nd VM

- 58.116.0.0/17 via the IP address of your 2nd VM

- 30.69.72.0/22 via the IP address of your 2nd VM

- 41.201.64.0/18 via the interface to your 2nd VM

- 114.86.64.0/20 via the interface to your 2nd VM