Network Engineering 2019 Exercises - Unit 3

0.1 Netmask Calculation

What is the netmask for this network?

82.127.224.0/20

Put your answer on a single line in unit3/answers.txt, with 0: at the beginning of the line, e.g., 0:255.255.255.0

What is the netmask for this network?

99.79.70.212/30

Put your answer on a single line in unit3/answers.txt, with 1: at the beginning of the line, e.g., 1:255.255.255.0

What is the netmask for this network?

0.0.0.0/2

Put your answer on a single line in unit3/answers.txt, with 2: at the beginning of the line, e.g., 2:255.255.255.0

What is the netmask for this network?

64.92.0.0/14

Put your answer on a single line in unit3/answers.txt, with 3: at the beginning of the line, e.g., 3:255.255.255.0

What is the netmask for this network?

0.0.0.0/5

Put your answer on a single line in unit3/answers.txt, with 4: at the beginning of the line, e.g., 4:255.255.25.0

What is the netmask for this network?

0.0.0.0/0

Put your answer on a single line in unit3/answers.txt, with 5: at the beginning of the line, e.g., 5:255.255.255.0

What is the netmask for this network?

55.0.176.0/20

Put your answer on a single line in unit3/answers.txt, with 6: at the beginning of the line, e.g., 6:255.255.255.0

120.7.186.100/31

Put your answer on a single line in unit3/answers.txt, with 7: at the beginning of the line, e.g., 7:255.255.255.0

What is the netmask for this network?

92.0.0.0/6

Put your answer on a single line in unit3/answers.txt, with 8: at the beginning of the line, e.g., 8:255.255.255.0

What is the netmask for this network?

45.46.0.0/17

Put your answer on a single line in unit3/answers.txt, with 9: at the beginning of the line, e.g., 9:255.255.255.0

What is the netmask for this network?

60.0.0.0/7

Put your answer on a single line in unit3/answers.txt, with 10: at the beginning of the line, e.g., 10:255.255.255.0

What is the netmask for this network?

11.16.43.192/30

Put your answer on a single line in unit3/answers.txt, with 11: at the beginning of the line, e.g., 11:255.255.25.0

What is the netmask for this network?

118.98.0.0/15

Put your answer on a single line in unit3/answers.txt, with 12: at the beginning of the line, e.g., 12:255.255.25.0

What is the netmask for this network?

81.8.0.0/13

Put your answer on a single line in unit3/answers.txt, with 13: at the beginning of the line, e.g., 13:255.255.25.0

21.142.136.224/30

Put your answer on a single line in unit3/answers.txt, with 14: at the beginning of the line, e.g., 14:255.255.255.0

What is the netmask for this network?

31.80.0.0/12

Put your answer on a single line in unit3/answers.txt, with 15: at the beginning of the line, e.g., 15:255.255.25.0

What is the netmask for this network?

97.127.49.176/30

Put your answer on a single line in unit3/answers.txt, with 16: at the beginning of the line, e.g., 16:255.255.255.0

What is the netmask for this network?

21.51.42.10/31

Put your answer on a single line in unit3/answers.txt, with 17: at the beginning of the line, e.g., 17:255.255.255.0

What is the netmask for this network?

104.0.0.0/5

Put your answer on a single line in unit3/answers.txt, with 18: at the beginning of the line, e.g., 18:255.255.25.0

What is the netmask for this network?

0.0.0.0/2

Put your answer on a single line in unit3/answers.txt, with 19: at the beginning of the line, e.g., 19:255.255.25.0

What is the netmask for this network?

103.176.124.0/24

Put your answer on a single line in unit3/answers.txt, with 20: at the beginning of the line, e.g., 20:255.255.25.0

72.0.0.0/5

Put your answer on a single line in unit3/answers.txt, with 21: at the beginning of the line, e.g., 21:255.255.25.0

What is the netmask for this network?

62.0.0.0/7

Put your answer on a single line in unit3/answers.txt, with 22: at the beginning of the line, e.g., 22:255.255.25.0

What is the netmask for this network?

79.223.108.0/23

Put your answer on a single line in unit3/answers.txt, with 23: at the beginning of the line, e.g., 23:255.255.25.0

What is the netmask for this network?

52.125.128.0/17

Put your answer on a single line in unit3/answers.txt, with 24: at the beginning of the line, e.g., 24:255.255.25.0

What is the netmask for this network?

112.118.141.72/29

Put your answer on a single line in unit3/answers.txt, with 25: at the beginning of the line, e.g., 25:255.255.255.0

What is the netmask for this network?

108.192.0.0/10

Put your answer on a single line in unit3/answers.txt, with 26: at the beginning of the line, e.g., 26:255.255.25.0

What is the netmask for this network?

59.23.112.0/20

Put your answer on a single line in unit3/answers.txt, with 27: at the beginning of the line, e.g., 27:255.255.25.0

31.0.0.0/8

Put your answer on a single line in unit3/answers.txt, with 28: at the beginning of the line, e.g., 28:255.255.25.0

What is the netmask for this network?

7.133.230.128/25

Put your answer on a single line in unit3/answers.txt, with 29: at the beginning of the line, e.g., 29:255.255.25.0

What is the netmask for this network?

66.64.0.0/10

Put your answer on a single line in unit3/answers.txt, with 30: at the beginning of the line, e.g., 30:255.255.25.0

What is the netmask for this network?

29.49.31.0/26

Put your answer on a single line in unit3/answers.txt, with 31: at the beginning of the line, e.g., 31:255.255.25.0

What is the netmask for this network?

41.137.0.0/16

Put your answer on a single line in unit3/answers.txt, with 32: at the beginning of the line, e.g., 32:255.255.255.0

What is the netmask for this network?

6.0.0.0/9

Put your answer on a single line in unit3/answers.txt, with 33: at the beginning of the line, e.g., 33:255.255.25.0

What is the netmask for this network?

4.0.0.0/6

Put your answer on a single line in unit3/answers.txt, with 34: at the beginning of the line, e.g., 34:255.255.25.0

11.154.250.202/31

Put your answer on a single line in unit3/answers.txt, with 35: at the beginning of the line, e.g., 35:255.255.25.0

What is the netmask for this network?

31.152.0.0/14

Put your answer on a single line in unit3/answers.txt, with 36: at the beginning of the line, e.g., 36:255.255.25.0

What is the netmask for this network?

14.64.0.0/11

Put your answer on a single line in unit3/answers.txt, with 37: at the beginning of the line, e.g., 37:255.255.25.0

What is the netmask for this network?

31.0.0.0/8

Put your answer on a single line in unit3/answers.txt, with 38: at the beginning of the line, e.g., 38:255.255.25.0

What is the netmask for this network?

96.0.0.0/3

Put your answer on a single line in unit3/answers.txt, with 39: at the beginning of the line, e.g., 39:255.255.25.0

0.2 Variable Length Sub-net Masking

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

91.67.11.122 netmask 255.192.0.0

Put your answer on a single line in unit3/answers.txt, with 40: at the beginning of the line, e.g., 40:10.0.0.0/8

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

 $69.182.252.224~{\rm netmask}~255.255.224.0$

Put your answer on a single line in unit3/answers.txt, with 41: at the beginning of the line, e.g., 41:10.0.0.0/8

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

100.166.27.180 netmask 255.255.255.224

Put your answer on a single line in unit3/answers.txt, with 42: at the beginning of the line, e.g., 42:10.0.0.0/8

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

43.56.255.199 netmask 255.248.0.0

Put your answer on a single line in unit3/answers.txt, with 43: at the beginning of the line, e.g., 43:10.0.0.0/8

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

12.239.115.132 netmask 255.128.0.0

Put your answer on a single line in unit3/answers.txt, with 44: at the beginning of the line, e.g., 44:10.0.0.0/8

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

57.92.225.71 netmask 255.224.0.0

Put your answer on a single line in unit3/answers.txt, with 45: at the beginning of the line, e.g., 45:10.0.0.0/8

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

89.158.231.51 netmask 255.248.0.0

Put your answer on a single line in unit3/answers.txt, with 46: at the beginning of the line, e.g., 46:10.0.0.0/8

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

115.28.207.133 netmask 255.255.255.240

Put your answer on a single line in unit3/answers.txt, with 47: at the beginning of the line, e.g., 47:10.0.0.0/8

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

8.242.73.93 netmask 255.255.255.252

Put your answer on a single line in unit3/answers.txt, with 48: at the beginning of the line, e.g., 48:10.0.0.0/8

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

 $26.36.85.165~\rm netmask~255.255.224.0$

Put your answer on a single line in unit3/answers.txt, with 49: at the beginning of the line, e.g., 49:10.0.0.0/8

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

7.188.1.4 netmask 255.255.0.0

Put your answer on a single line in unit3/answers.txt, with 50: at the beginning of the line, e.g., 50:10.0.0.0/8

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

0.138.215.178 netmask 224.0.0.0

Put your answer on a single line in unit3/answers.txt, with 51: at the beginning of the line, e.g., 51:10.0.0.0/8

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

127.85.102.31 netmask 255.255.254.0

Put your answer on a single line in unit3/answers.txt, with 52: at the beginning of the line, e.g., 52:10.0.0.0/8

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

5.121.5.174 netmask 255.255.240.0

Put your answer on a single line in unit3/answers.txt, with 53: at the beginning of the line, e.g., 53:10.0.0.0/8

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

109.21.172.191 netmask 255.255.0.0

Put your answer on a single line in unit3/answers.txt, with 54: at the beginning of the line, e.g., 54:10.0.0.0/8

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

115.4.197.87 netmask 255.255.255.128

Put your answer on a single line in unit3/answers.txt, with 55: at the beginning of the line, e.g., 55:10.0.0.0/8

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

103.65.61.186 netmask 255.255.254.0

Put your answer on a single line in unit3/answers.txt, with 56: at the beginning of the line, e.g., 56:10.0.0.0/8

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

16.101.73.236 netmask 255.252.0.0

Put your answer on a single line in unit3/answers.txt, with 57: at the beginning of the line, e.g., 57:10.0.0.0/8

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

57.138.56.243 netmask 255.255.240.0

Put your answer on a single line in unit3/answers.txt, with 58: at the beginning of the line, e.g., 58:10.0.0.0/8

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

80.33.147.123 netmask 255.255.254.0

Put your answer on a single line in unit3/answers.txt, with 59: at the beginning of the line, e.g., 59:10.0.0.0/8

0.3 Configure Network Interfaces using the ifconfig and ip commands

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

110.93.48.61 netmask 192.0.0.0, PPP remote address 96.12.117.15, but not running

Put your answer on a single line in unit3/answers.txt, with 60: at the beginning of the line, e.g., 60: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)?

```
9.183.246.105 netmask 192.0.0.0
```

Put your answer on a single line in unit3/answers.txt, with 61: at the beginning of the line, e.g., 61: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 52.170.164.74/13 dev eth0; ip link set eth0 down
```

Put your answer on a single line in unit3/answers.txt, with 62: at the beginning of the line, e.g., 62: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)?

```
55.244.206.238 netmask 255.252.0.0, MTU = 1508, PPP remote address 65.27.180.48, TX queue length = 2498
```

Put your answer on a single line in unit3/answers.txt, with 63: at the beginning of the line, e.g., 63: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 eth<br/>0127.97.79.230 netmask 255.255.0.0
```

Put your answer on a single line in unit3/answers.txt, with 64: at the beginning of the line, e.g., 64: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)?

27.164.128.247 netmask 255.255.240.0, MTU = 1904, PPP remote address 12.109.0.227, but not running, in promiscuous mode

Put your answer on a single line in unit3/answers.txt, with 65: at the beginning of the line, e.g., 65: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)?

if
config eth
024.203.177.13netmask255.254.0.0-arp

Put your answer on a single line in unit3/answers.txt, with 66: at the beginning of the line, e.g., 66: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)?

73.45.105.7 netmask 255.128.0.0, without ARP, TX queue length = 3039

Put your answer on a single line in unit3/answers.txt, with 67: at the beginning of the line, e.g., 67: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 11.213.71.96/31 dev eth0; ip link set eth0 down; ip link set dev eth0 txqueuelen 1012

Put your answer on a single line in unit3/answers.txt, with 68: at the beginning of the line, e.g., 68:ip blah blah; ip again with other options; ip again with yet other options

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

ip address add 38.120.136.134/6 dev eth0; ip link set dev eth0 mtu 1897; ip link set dev eth0 arp off

Put your answer on a single line in unit3/answers.txt, with 69: at the beginning of the line, e.g., 69: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)?

62.44.71.84 netmask 192.0.0.0, MTU = 2139, PPP remote address 53.162.196.163, but not running, without ARP

Put your answer on a single line in unit3/answers.txt, with 70: at the beginning of the line, e.g., 70: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)?

```
47.7.30.54 netmask 255.254.0.0, MTU = 3234
```

Put your answer on a single line in unit3/answers.txt, with 71: at the beginning of the line, e.g., 71: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)?

```
21.215.227.175 netmask 255.248.0.0
```

Put your answer on a single line in unit3/answers.txt, with 72: at the beginning of the line, e.g., 72: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)?

```
84.74.174.18 net
mask 255.224.0.0, but not running, TX queue length
 =1689
```

Put your answer on a single line in unit3/answers.txt, with 73: at the beginning of the line, e.g., 73:ifconfig moo0 1.2.3.4 netmask 255.0.0.0 -broadcast

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

```
ip address add 119.221.158.165/17 dev eth0
```

Put your answer on a single line in unit3/answers.txt, with 74: at the beginning of the line, e.g., 74: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 2.47.58.39 netmask 248.0.0.0 mtu 4074

Put your answer on a single line in unit3/answers.txt, with 75: at the beginning of the line, e.g., 75: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)?

127.202.50.10netmask 224.0.0.0, MTU = 842, PPP remote address 7.209.80.142

Put your answer on a single line in unit3/answers.txt, with 76: at the beginning of the line, e.g., 76:ifconfig moo0 1.2.3.4 netmask 255.0.0.0 -broadcast

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

15.86.239.155 net mask $254.0.0.0,\ \mbox{PPP}$ remote address 81.75.3.224, without \mbox{ARP}

Put your answer on a single line in unit3/answers.txt, with 77: at the beginning of the line, e.g., 77: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 77.158.26.142/12 dev eth
0; ip link set dev eth
0 arp off

Put your answer on a single line in unit3/answers.txt, with 78: at the beginning of the line, e.g., 78: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)?

61.205.64.14 netmask 252.0.0.0, but not running, in promiscuous mode

Put your answer on a single line in unit3/answers.txt, with 79: at the beginning of the line, e.g., 79:ip blah blah; ip again with other options; ip again with yet other options

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 castle0, that specifies an MTU of 1424 and MAC address D6:37:11:B6:9A:5F.
- A template called castle1, that specifies an MTU of 5888 and MAC address D5:D3:A2:21:B7:98.
- A template called wealth2, that specifies an MTU of 2287 and MAC address 83:C2:CA:91:E8:CF.
- A template called moths3, that specifies an MTU of 7024 and MAC address 5E:0F:A3:E3:FE:19.
- An interface named wlan0, with IPv4 settings configured by DHCP.
- An interface named ftdi1, with IPv4 address 71.21.253.116 and netmask 255.248.0.0.
- An interface named jam2, with IPv4 address 42.14.4.161 and netmask 255.192.0.0, and inherits the template moths3.
- An interface named wlan3, with IPv4 address 80.123.242.188 and netmask 255.255.255.248, and inherits the template castle1.
- An interface named jam4, with IPv4 settings configured by DHCP.
- An interface named wlan5, with IPv4 address 122.202.132.207 and netmask 255.255.192.0.
- An interface named eth6, with IPv4 settings configured by DHCP.

0.4.2 Prepare unit3/iface1-solution.txt

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

- A template called castle0, that specifies an MTU of 7506 and MAC address BE:77:10:F5:B0:AB.
- A template called wealth1, that specifies an MTU of 6500 and MAC address 08:A6:B9:4D:33:DE.
- A template called castle2, that specifies an MTU of 7010 and MAC address 12:B2:ED:44:4F:C0.

- An interface named ftdi0, with IPv4 address 56.2.65.61 and netmask 255.0.0.0, and inherits the template castle2.
- An interface named ftdi1, with IPv4 address 29.218.73.235 and netmask 255.224.0.0, and inherits the template wealth1.
- An interface named eth2, with IPv4 settings configured by DHCPand inherits the template wealth1.

0.4.3 Prepare unit3/iface2-solution.txt

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

- A template called ruins0, that specifies an MTU of 2889 and MAC address 17:EB:AB:29:9E:99.
- A template called ruins1, that specifies an MTU of 5069 and MAC address 59:B7:2A:02:92:3F.
- A template called moths2, that specifies an MTU of 5170 and MAC address 2B:B2:80:8E:6D:4B.
- An interface named wlan0, with IPv4 settings configured by DHCPand inherits the template ruins1.
- An interface named ftdi1, with IPv4 settings configured by DHCP.
- An interface named jam2, with IPv4 address 28.168.79.156 and netmask 255.192.0.0.

0.4.4 Prepare unit3/iface3-solution.txt

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

- A template called ruins0, that specifies an MTU of 4558 and MAC address 86:53:E2:8D:FD:0D.
- A template called moths1, that specifies an MTU of 6113 and MAC address 9B:AD:C8:3C:81:C8.
- An interface named wlan0, with IPv4 settings configured by DHCP.
- An interface named ftdi1, with IPv4 address 6.242.75.43 and netmask 255.255.224.0, and inherits the template moths1.
- An interface named wlan2, with IPv4 settings configured by DHCP.
- An interface named ftdi3, with IPv4 address 18.99.83.208 and netmask 248.0.0.0.

- An interface named jam4, with IPv4 settings configured by DHCP.
- An interface named jam5, with IPv4 address 91.245.80.39 and netmask 255.255.255.252.
- An interface named wlan6, with IPv4 address 115.205.115.145 and net-mask 255.255.128.0, and inherits the template moths1.

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 4956 and MAC address 48:78:F9:FD:C1:8B.
- A template called ruins1, that specifies an MTU of 1173 and MAC address 70:8F:EF:52:D6:8C.
- A template called ruins2, that specifies an MTU of 936 and MAC address D6:D9:D7:A1:C8:53.
- A template called castle3, that specifies an MTU of 1561 and MAC address 89:8A:F2:EA:94:A5.
- An interface named eth0, with IPv4 settings configured by DHCPand inherits the template castle3.
- An interface named eth1, with IPv4 address 38.3.241.47 and netmask 255.255.0.0, and inherits the template ruins2.
- An interface named eth2, with IPv4 settings configured by DHCPand inherits the template ruins1.

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
 - 18.198.181.0/24 via the IP address of your 2nd VM
 - 112.7.109.0/25 via the IP address of your 2nd VM
 - 37.34.37.180/31 via the interface to your 2nd VM
 - \bullet 31.34.66.144/28 via the interface to your 2nd VM
 - 69.23.78.96/27 via the IP address of your 2nd VM
 - 101.60.157.128/25 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
 - 103.27.0.0/16 via the interface to your 2nd VM
 - 97.95.8.0/21 via the IP address of your 2nd VM
 - 114.191.128.0/17 via the IP address of your 2nd VM
 - 122.57.0.0/16 via the IP address of your 2nd VM
 - 104.192.247.206/31 via the interface to your 2nd VM
 - 38.72.24.0/25 via the interface to 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
 - \bullet 11.132.128.0/18 via the IP address of your 2nd VM
 - 45.216.140.34/31 via the interface to your 2nd VM
 - \bullet 79.121.239.128/25 via the IP address of your 2nd VM
 - 76.10.176.0/20 via the interface to your 2nd VM
 - 57.168.82.0/23 via the interface to your 2nd VM
 - 34.105.72.0/23 via the interface to 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
 - 72.177.0.0/16 via the interface to your 2nd VM
 - 86.106.210.0/24 via the interface to your 2nd VM
 - 93.118.30.0/23 via the IP address of your 2nd VM
 - 14.197.240.0/21 via the IP address of your 2nd VM
 - \bullet 56.93.138.0/24 via the IP address of your 2nd VM
 - 18.230.182.128/25 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
 - $\bullet~122.246.64.0/21$ via the IP address of your 2nd VM
 - \bullet 105.68.25.0/25 via the IP address of your 2nd VM
 - \bullet 52.11.4.208/31 via the IP address of your 2nd VM
 - \bullet 79.35.48.0/20 via the interface to your 2nd VM
 - \bullet 58.114.128.0/17 via the interface to your 2nd VM
 - \bullet 78.55.58.160/27 via the IP address of your 2nd VM