Packet Tracer project

Subnetting

Aswan:

Subnet Mask: 255.255.255.255

Subnet Mask(in binary):11111111. 11111111. 11111111. 11111111

Number of Hosts: 20(10100)-5 bits

SG:32

Octet position: 4

Reserve 5 bits in 4th octet: 11111111. 11111111. 11111111.11100000

New Subnet Mask: 255.255.255.224 or /27

Cairo:

Subnet Mask: 255.255.255.255

Subnet Mask(in binary): 11111111. 11111111. 11111111. 11111111

Number of Hosts: 300(100101100)-9 bits

SG:32

Octet position:3&4

Reserve 9 bits in the 4th and 3rd octet: 11111111. 11111111. 11111110. 00000000

New Subnet Mask: 255.255.254.0 or /23

Alexandria:

Subnet Mask: 255.255.255.255

Subnet Mask(in binary): 11111111. 11111111. 11111111. 11111111

Number of Hosts: --

SG:32

Octet position:4

Reserve 5 bits in the 4th: 11111111. 11111111. 11111110. 11100000

New Subnet Mask: 255.255.255.0 or /24

Port said:

Subnet Mask: 255.255.255.255

Subnet Mask(in binary): 11111111. 11111111. 11111111. 11111111

Number of Hosts: --

SG:32

Octet position:4

Reserve 5 bits in the 4th: 11111111. 11111111. 11111110. 11100000

New Subnet Mask: 255.255.255.0 or /24