[illegible] (VLSM)

[illegible] -Network+ [illegible] (49 [illegible])

۴۹
الگوهای زیرشبکه با طول‌متغیر (VLSM)، جداول الگوهای زیرشبکه، پیاده‌سازی زیر شبکه‌ها
CompTIA
Network+
شبکه
آموزش رایگان دوره Network+

[illegible] IPv4، [illegible] IPv4 [illegible].

[illegible] (Network+) [illegible]

4. [illegible] - [illegible] 3 [illegible] 5 [illegible] 8 [illegible] C [illegible] 5 [illegible] 1 [illegible] 0 [illegible] 2 × 2 × 2 × 2 × 2 [illegible] 32 [illegible] 0 [illegible] 1 [illegible] 30 [illegible].

[illegible]:

$2^h-2=Z$

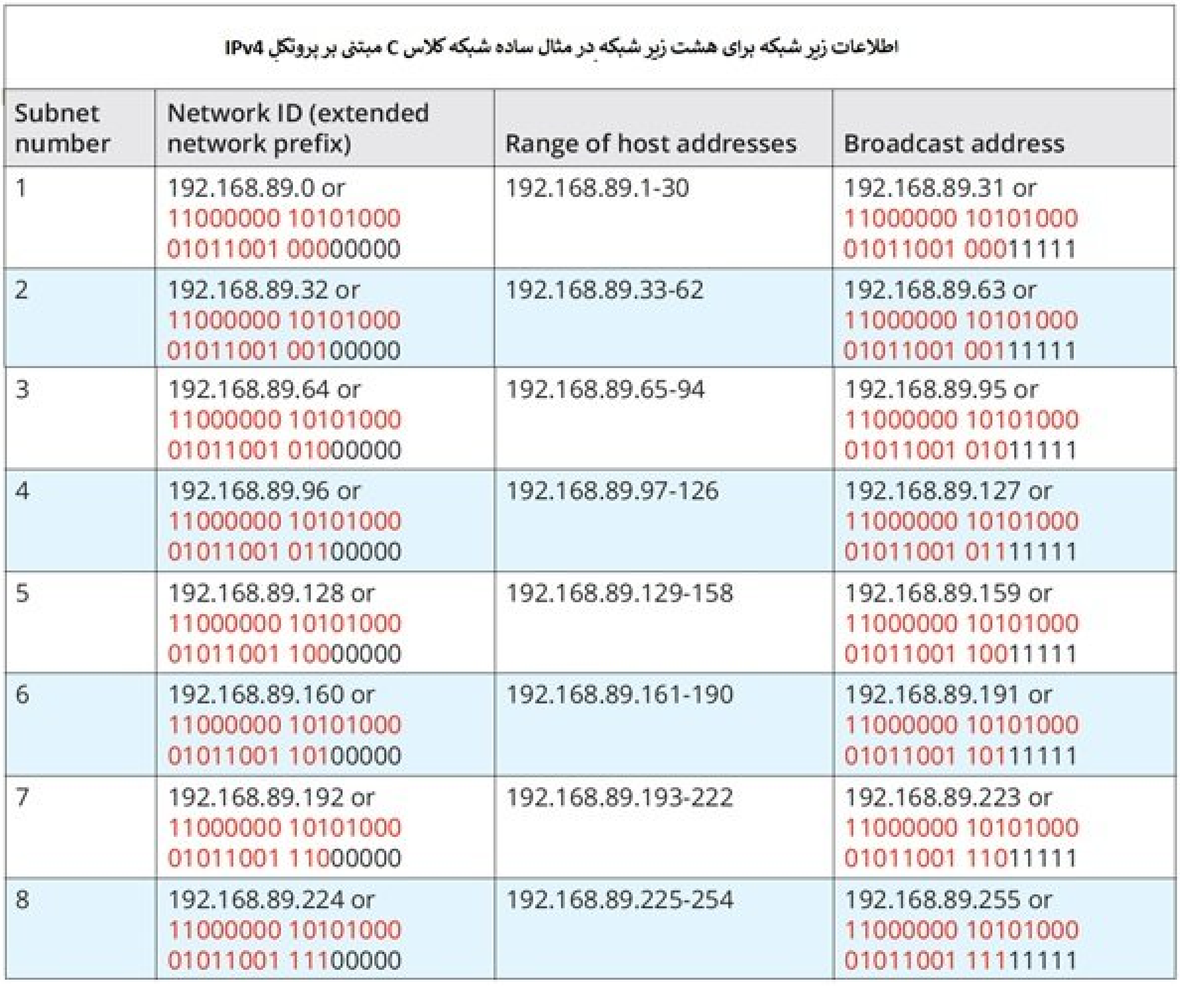
- h [illegible].

- Z [illegible].

[illegible] $2-2^5$ [illegible] 30 [illegible].

[illegible] 8 [illegible] 30 [illegible] 240 [illegible] 5 [illegible] 192.168.89.128 [illegible] 30 [illegible] 5 [illegible] 192.168.89.129 [illegible] 192.168.89.158 [illegible].

[illegible] C [illegible] (extended network prefix [illegible].

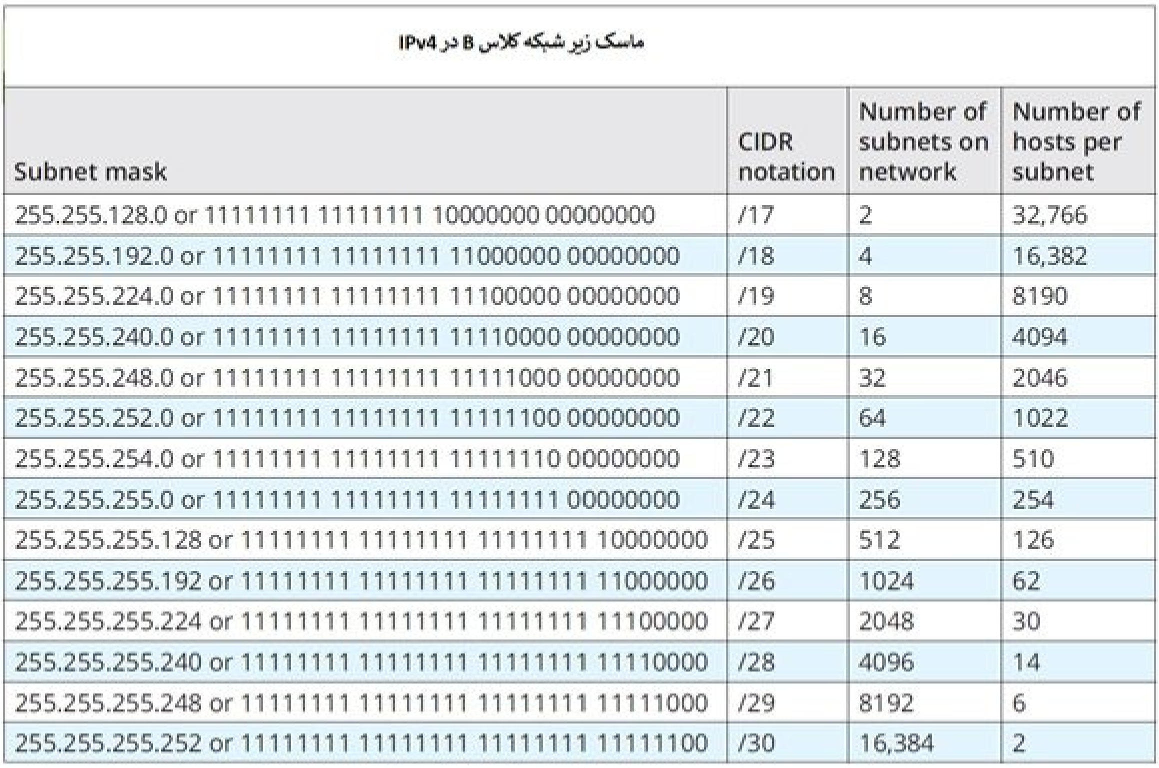


اطلاعات زیر شبکه برای هشت زیر شبکه در مثال ساده شبکه کلاس C مبتنی بر پروتکل IPv4

Subnet number	Network ID (extended network prefix)	Range of host addresses	Broadcast address
1	192.168.89.0 or 11000000 10101000 01011001 00000000	192.168.89.1-30	192.168.89.31 or 11000000 10101000 01011001 00011111
2	192.168.89.32 or 11000000 10101000 01011001 00100000	192.168.89.33-62	192.168.89.63 or 11000000 10101000 01011001 00111111
3	192.168.89.64 or 11000000 10101000 01011001 01000000	192.168.89.65-94	192.168.89.95 or 11000000 10101000 01011001 01011111
4	192.168.89.96 or 11000000 10101000 01011001 01100000	192.168.89.97-126	192.168.89.127 or 11000000 10101000 01011001 01111111
5	192.168.89.128 or 11000000 10101000 01011001 10000000	192.168.89.129-158	192.168.89.159 or 11000000 10101000 01011001 10011111
6	192.168.89.160 or 11000000 10101000 01011001 10100000	192.168.89.161-190	192.168.89.191 or 11000000 10101000 01011001 10111111
7	192.168.89.192 or 11000000 10101000 01011001 11000000	192.168.89.193-222	192.168.89.223 or 11000000 10101000 01011001 11011111
8	192.168.89.224 or 11000000 10101000 01011001 11100000	192.168.89.225-254	192.168.89.255 or 11000000 10101000 01011001 11111111

[illegible]/[illegible]

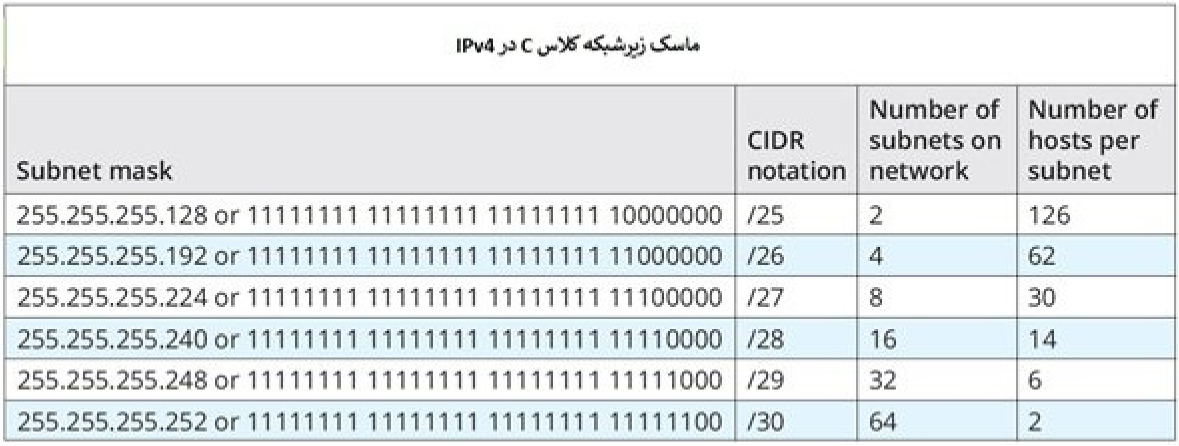
[illegible] B [illegible] A، [illegible] C [illegible]. [illegible] www.subnetmask.info [illegible]. [illegible] subnettingquestions.com [illegible] Subnetting and Practice 24/ [illegible]. [illegible] B [illegible]. [illegible] B [illegible] 255.255.0.0 [illegible].



ماسک زیر شبکه کلاس B در IPv4

Subnet mask	CIDR notation	Number of subnets on network	Number of hosts per subnet
255.255.128.0 or 11111111 11111111 10000000 00000000	/17	2	32,766
255.255.192.0 or 11111111 11111111 11000000 00000000	/18	4	16,382
255.255.224.0 or 11111111 11111111 11100000 00000000	/19	8	8190
255.255.240.0 or 11111111 11111111 11110000 00000000	/20	16	4094
255.255.248.0 or 11111111 11111111 11111000 00000000	/21	32	2046
255.255.252.0 or 11111111 11111111 11111100 00000000	/22	64	1022
255.255.254.0 or 11111111 11111111 11111110 00000000	/23	128	510
255.255.255.0 or 11111111 11111111 11111111 00000000	/24	256	254
255.255.255.128 or 11111111 11111111 11111111 10000000	/25	512	126
255.255.255.192 or 11111111 11111111 11111111 11000000	/26	1024	62
255.255.255.224 or 11111111 11111111 11111111 11100000	/27	2048	30
255.255.255.240 or 11111111 11111111 11111111 11110000	/28	4096	14
255.255.255.248 or 11111111 11111111 11111111 11111000	/29	8192	6
255.255.255.252 or 11111111 11111111 11111111 11111100	/30	16,384	2

[illegible] C [illegible]. [illegible] C [illegible] B [illegible]. [illegible] C [illegible] B [illegible].



ماسک زیرشبکه کلاس C در IPv4

Subnet mask	CIDR notation	Number of subnets on network	Number of hosts per subnet
255.255.255.128 or 11111111 11111111 11111111 10000000	/25	2	126
255.255.255.192 or 11111111 11111111 11111111 11000000	/26	4	62
255.255.255.224 or 11111111 11111111 11111111 11100000	/27	8	30
255.255.255.240 or 11111111 11111111 11111111 11110000	/28	16	14
255.255.255.248 or 11111111 11111111 11111111 11111000	/29	32	6
255.255.255.252 or 11111111 11111111 11111111 11111100	/30	64	2

[illegible]: [illegible]:

- [illegible] ([illegible]) [illegible] IP [illegible].

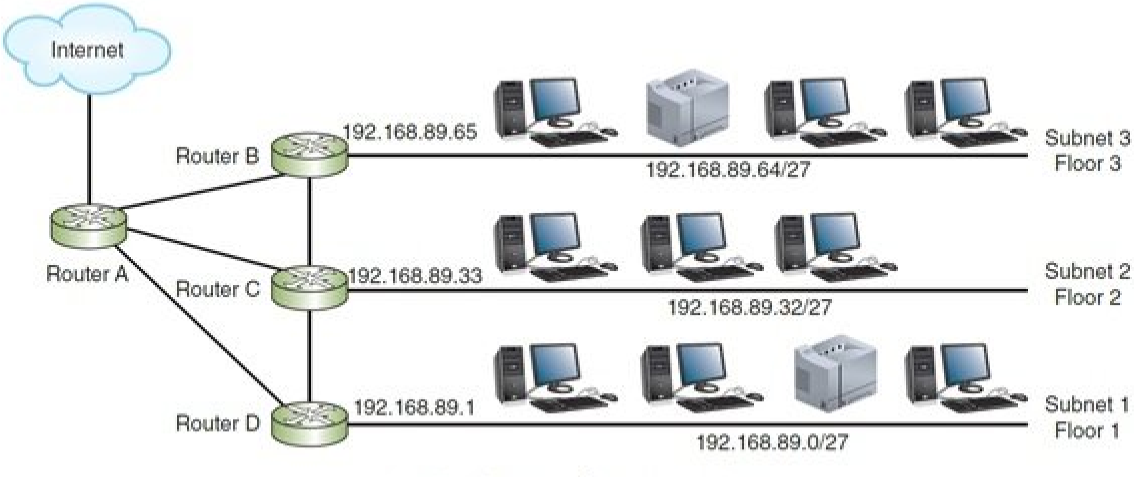
- [illegible] IP[illegible] / [illegible].

[illegible] C [illegible].

[illegible] C [illegible] B [illegible].

[illegible]

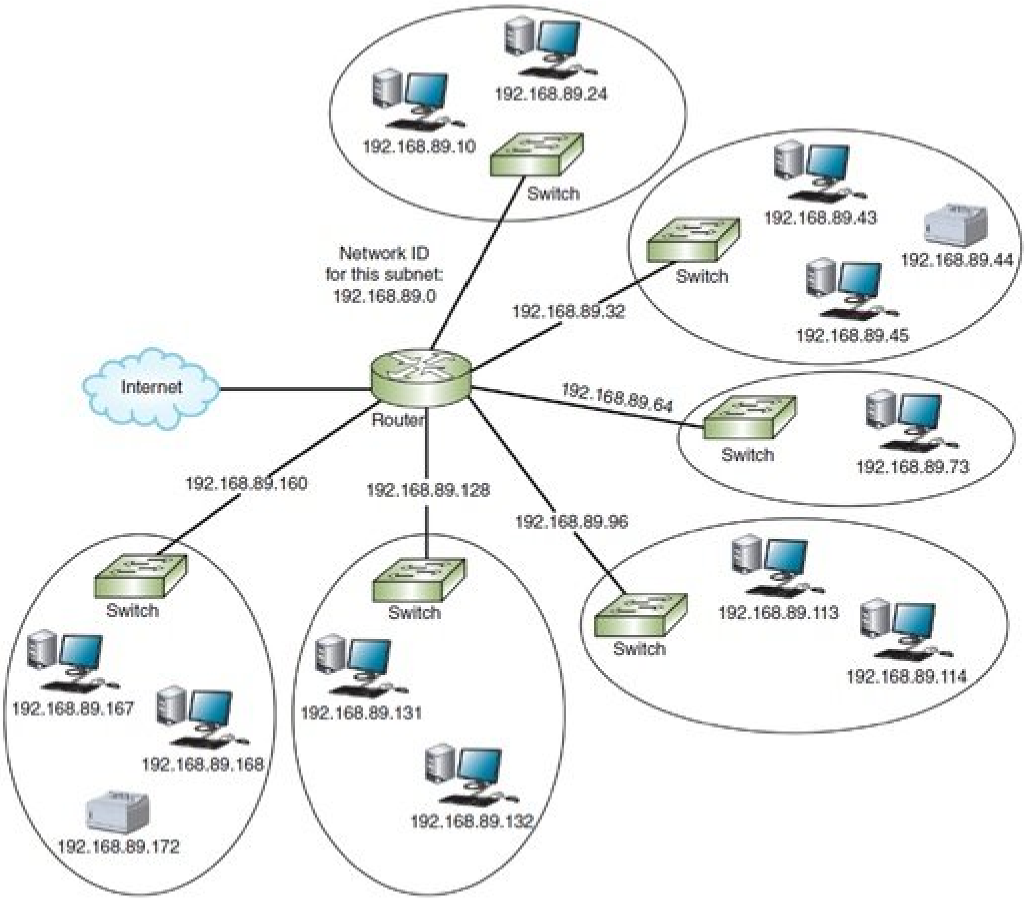
[illegible].



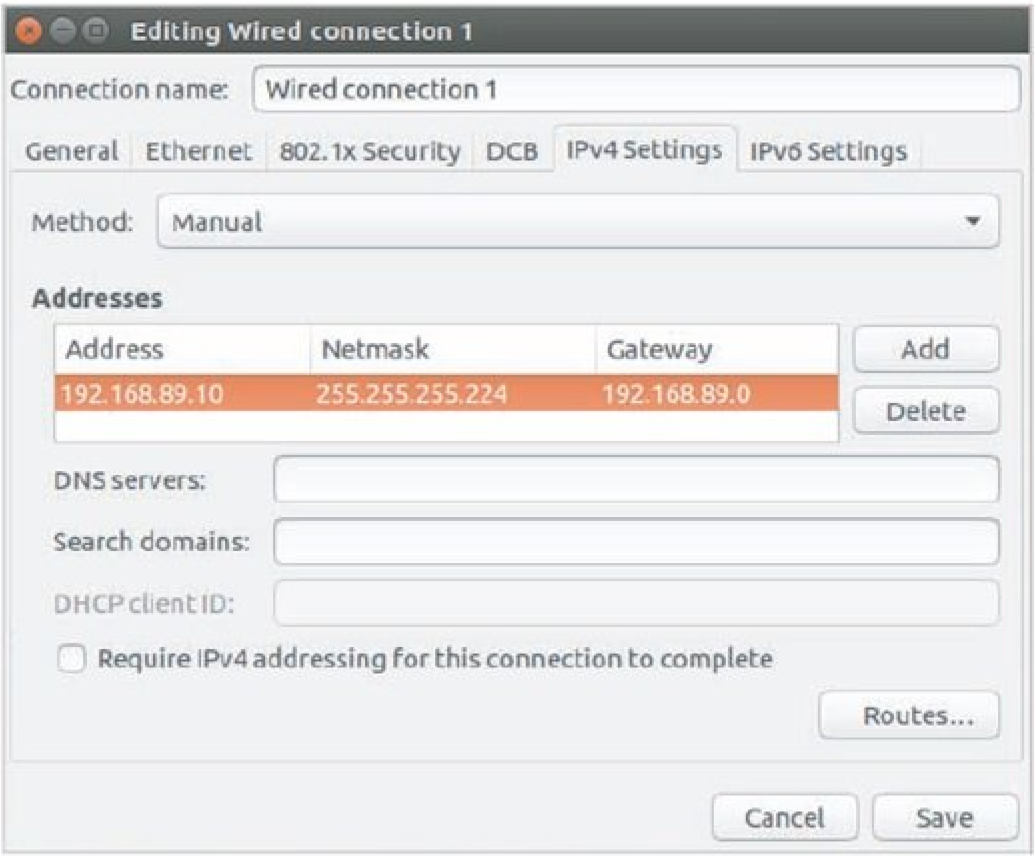
زیرشبکه های 1، 2، 3 و گیت وی پیش فرض آن ها

[illegible]

[illegible] C [illegible] 192.168.89 [illegible].
C [illegible]
[illegible]
[illegible]
[illegible]
[illegible].



[illegible] TCP / IPv4 [illegible]
[illegible].



Editing Wired connection 1

Connection name: Wired connection 1

Method: Manual

Addresses

Address	Netmask	Gateway
192.168.89.10	255.255.255.224	192.168.89.0

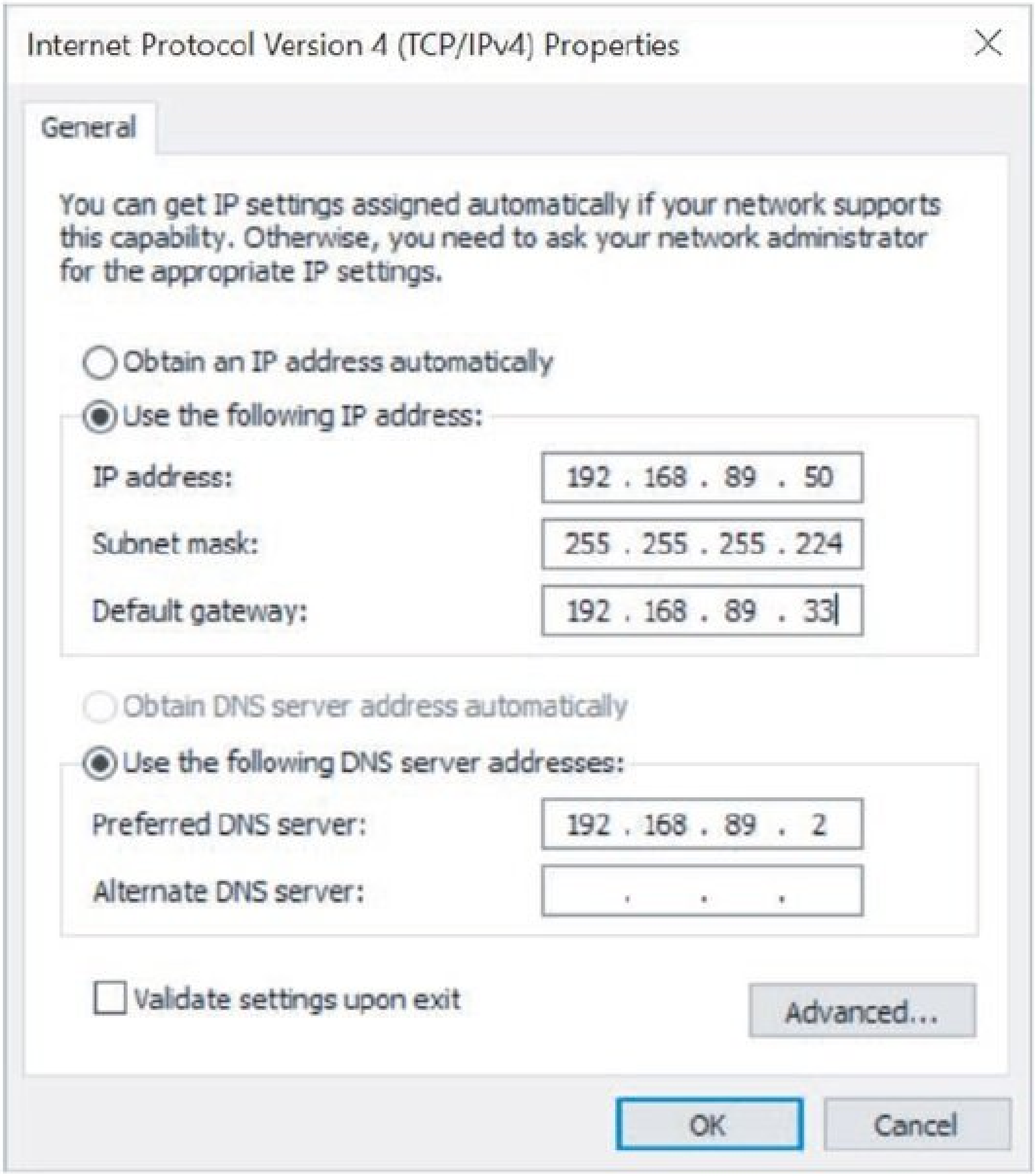
DNS servers:

Search domains:

DHCP client ID:

☐ Require IPv4 addressing for this connection to complete

[illegible].



Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically

● Use the following IP address:

IP address: 192 . 168 . 89 . 50

Subnet mask: 255 . 255 . 255 . 224

Default gateway: 192 . 168 . 89 . 33

○ Obtain DNS server address automatically

● Use the following DNS server addresses:

Preferred DNS server: 192 . 168 . 89 . 2

Alternate DNS server: . . .

☐ Validate settings upon exit

[illegible] IP [illegible]. [illegible]. [illegible] DHCP [illegible] IP [illegible]. [illegible] DHCP [illegible]. [illegible] DHCP [illegible]. [illegible] DHCP [illegible] DHCP [illegible] (VLAN [illegible]) [illegible]. [illegible]:

[illegible] 1: [illegible] 3 [illegible] DHCP [illegible].

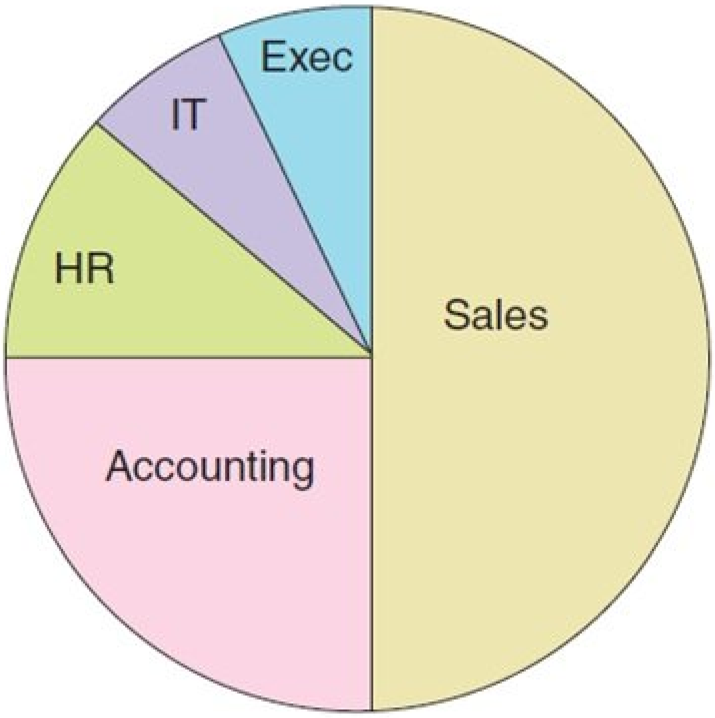
[illegible] 2- [illegible] 3 [illegible] DHCP [illegible]

[illegible] 3: [illegible] DHCP [illegible] DHCP [illegible]

[illegible]. [illegible] ip helper-address [illegible] helper [illegible] UDP [illegible] DNS [illegible] TFTP [illegible] DHCP [illegible] TACACS1 [illegible].

[illegible] (VLSM)

[illegible]. [illegible] (VLSM) [illegible] Variable Length Subnet Mask [illegible]. [illegible] "subnetting subnet" [illegible]. VLSM [illegible] "[illegible]" [illegible] ([illegible]) [illegible].



[illegible]. [illegible] IP [illegible]. [illegible] 23 / [illegible] / 22 [illegible]. [illegible] IPv6 [illegible] IPv4 [illegible]. [illegible] Subnetting [illegible] IPv6 [illegible].

[illegible] IPv6 [illegible].

معرفی آموزشگاه‌های معتبر دوره نتورک پلاس در سراسر کشور

[illegible] :([illegible]) [illegible]
[illegible]
[illegible]: 02188735845 [illegible]: @Asrehshabakeh

[illegible] :([illegible]) [illegible]
[illegible]: 01333241269 [illegible]: @HivaShabake

[illegible]:
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15:45 - 21/02/1398
[illegible]:
[illegible] - [illegible] - [illegible] - [illegible] - Network+ - [illegible] - [illegible] - [illegible] - [illegible] - [illegible] - Variable Length Subnet Mask - Network+ [illegible]

[illegible]
[illegible]: https://www.shabakeh-mag.com/networking-technology/15243/%D8%A2%D9%85%D9%88%D8%B2%D8%B4-%D8%B1%D8%A7%DB%8C%DA%AF%D8%A7%D9%86-%D8%AF%D9%88%D8%B1%D9%87-network-%D8%A7%D9%84%DA%AF%D9%88%D9%87%D8%A7%DB%8C-%D8%B2%DB%8C%D8%B1%D8%B4%D8%A8%DA%A9%D9%87-%D8%A8%D8%AE%D8%B4-49