禪

[illegible]

[illegible]

[illegible]

[illegible] (network node) [illegible] TCP [illegible] IP [illegible]

[illegible]

[illegible]

[illegible]:

- [illegible]**:** [illegible].
- [illegible]**:** [illegible].
- [illegible] **(VoIP):** [illegible] (IP) [illegible] VoIP [illegible].
- [illegible]**:** [illegible].
- [illegible]**:** [illegible].

[illegible].

[illegible]

[illegible] (bus topology)[illegible] (ring topology)[illegible] (mesh topology)[illegible] (star topology)[illegible] (tree topology)[illegible] (hybrid topology) [illegible].

[illegible] (Linear Bus topology)

[illegible].

[illegible].

[illegible] (Ring topology)

[illegible].

[illegible]

[illegible]

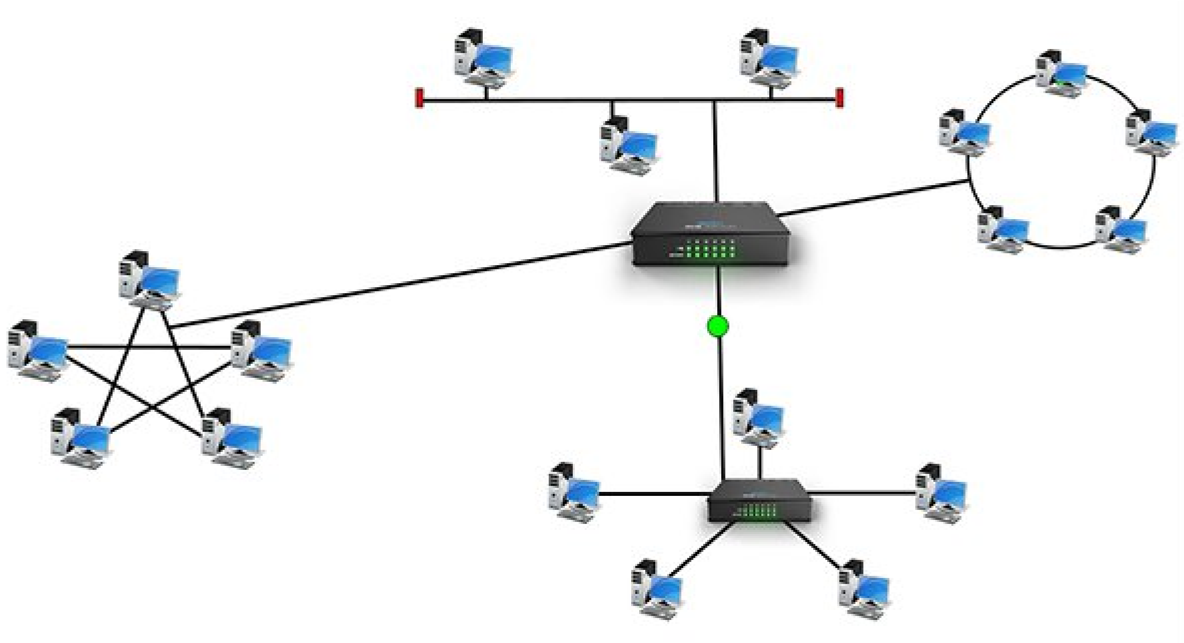
[illegible] (Mesh topology)

[illegible]

[illegible] (Star topology)

[illegible]

[illegible]



[illegible] 1. [illegible]

[illegible] (Tree topology)

[illegible] (Expanded Star) [illegible]. [illegible]. [illegible]. [illegible]. [illegible]. [illegible].

[illegible] (Hybrid topology)

[illegible]. [illegible]. [illegible].

[illegible]

[illegible]: [illegible] (PAN)، [illegible] (LAN)، [illegible] (CAN)، [illegible] (MAN) [illegible] (WAN).

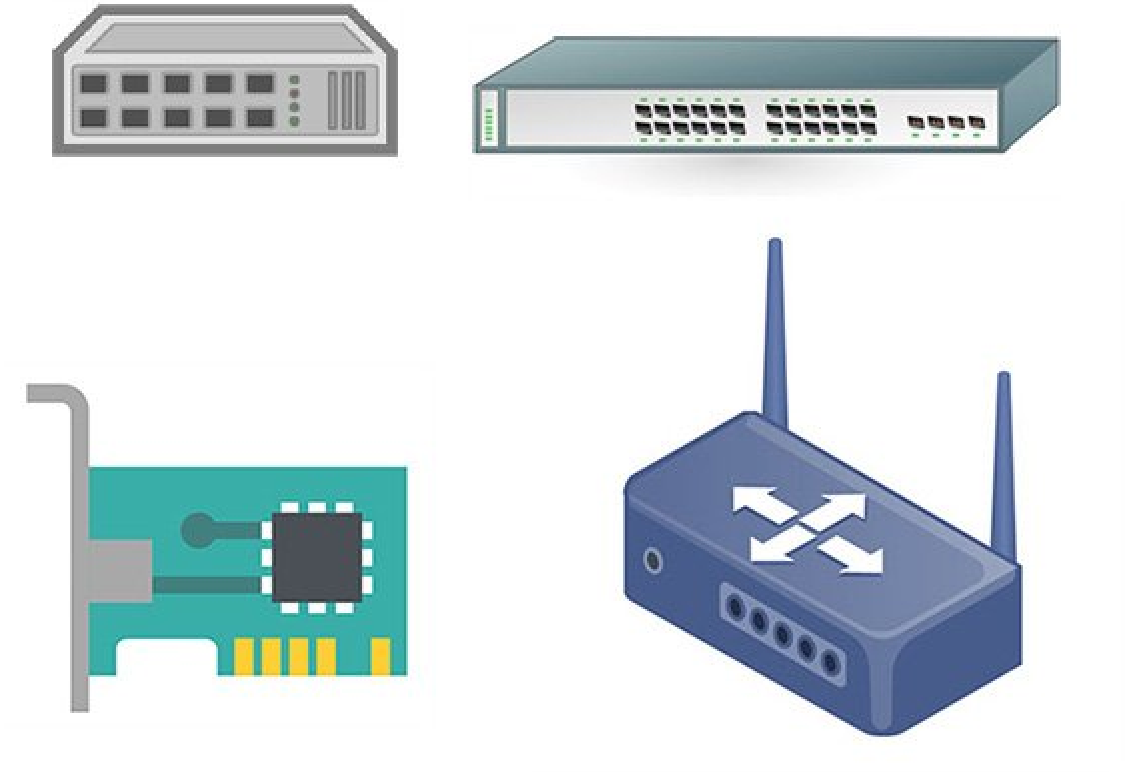
- **[illegible] (PAN):** [illegible] PAN ([illegible] Personal Area Network) [illegible]. [illegible] (PAN) [illegible].
- **[illegible] (LAN):** [illegible] LAN ([illegible] Local Area Network) [illegible]. [illegible]. [illegible].
- **[illegible] (CAN):** [illegible] CAN ([illegible] Campus Area Network) [illegible]. [illegible].
- **[illegible] (MAN):** [illegible] MAN ([illegible] Metropolitan Area Network) [illegible]. [illegible] (WAN) [illegible].
- **[illegible] (WAN):** [illegible] WAN ([illegible] Wide Area Network) [illegible]. [illegible] WAN [illegible].

[illegible]

[illegible]. [illegible].

[illegible]

[illegible]



[illegible] 2. [illegible] ([illegible]: [illegible])

[illegible]

[illegible] (IP) [illegible].

[illegible]: Hypertext Transfer Protocol (HTTP) [illegible] Transmission Control Protocol (TCP) [illegible] Internet Protocol (IP).

[illegible] (IP address)

[illegible] (IP) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

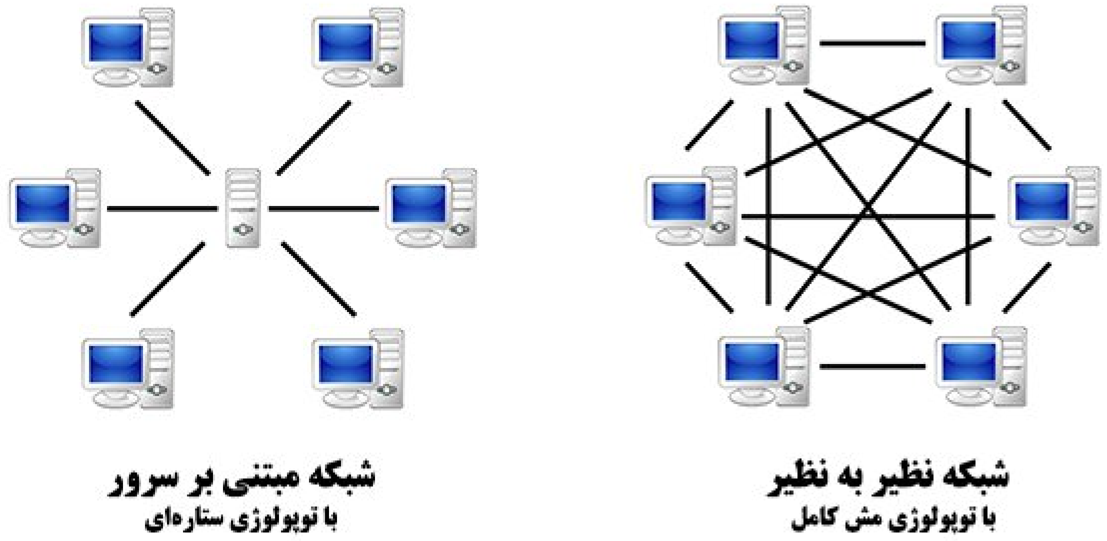
[illegible]

[illegible]

[illegible]

[illegible] (P2P)

[illegible] P2P ([illegible] Peer-to-Peer) [illegible]



[illegible] 3. [illegible]. [illegible]. [illegible].

:[illegible]

[illegible]

:[illegible]

[illegible]

:[illegible]

07:05 - 03/05/1399

:[illegible]

[illegible] - [illegible] - [illegible] - [illegible] - [illegible] - [illegible] - [illegible]

[illegible]

[illegible]:https://www.shabakeh-mag.com/networking-technology/17105/%D8%B4%D8%A8%DA%A9%D9%87-%DA%A9%D8%A7%D9%85%D9%BE%DB%8C%D9%88%D8%AA%D8%B1%DB%8C-%DA%86%DB%8C%D8%B3%D8%AA-%D8%A7%D9%86%D9%88%D8%A7%D8%B9-%D8%B4%D8%A8%DA%A9%D9%87%E2%80%8C-%D9%88-%D8%AA%D8%B9%D8%A7%D8%B1%DB%8C%D9%81-%D9%88-%D8%A7%D8%B5%D8%B7%D9%84%D8%A7%D8%AD%D8%A7%D8%AA-%D8%B4%D8%A8%DA%A9%D9%87