

# Gateway (Network Device)

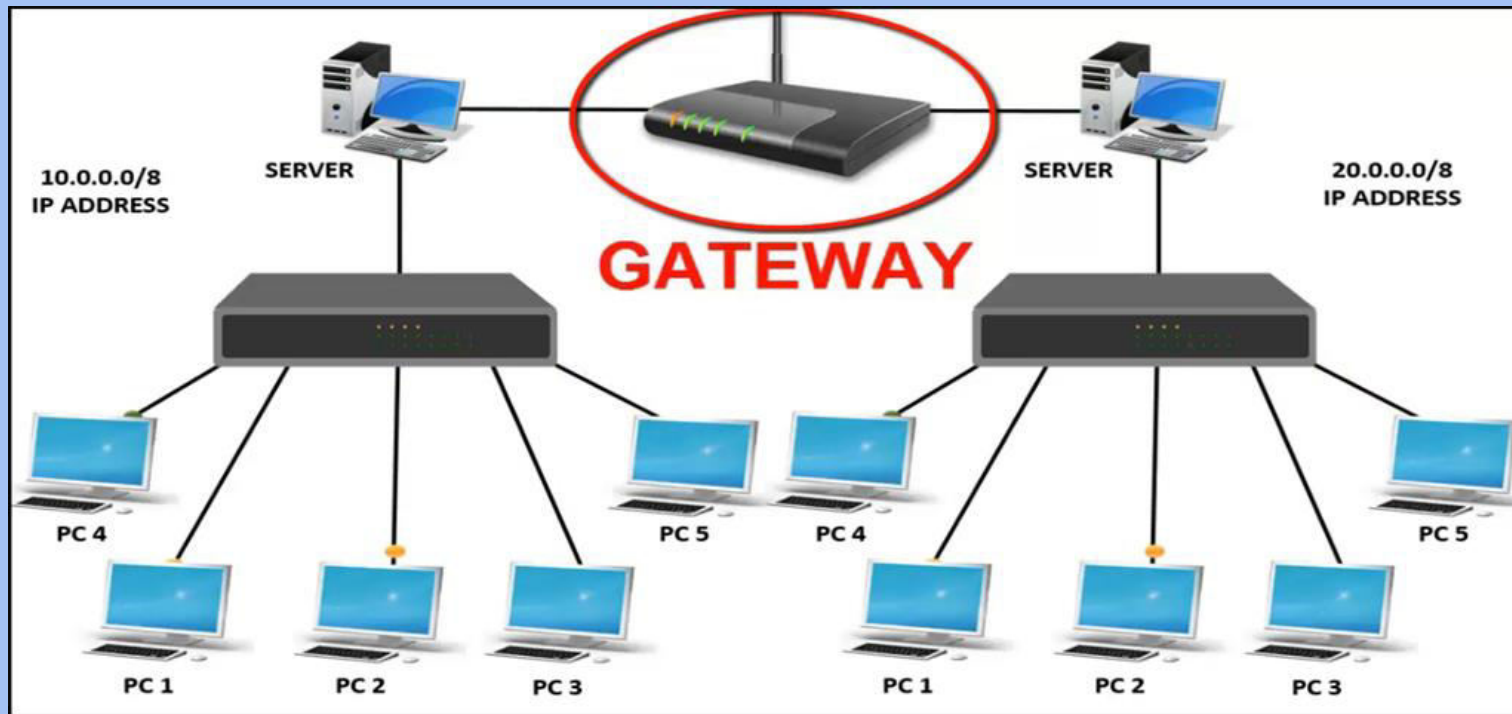
Elementrix Classes

# Gateway

- ❑ A gateway is a network device. It functions at the network layer (layer 3) of the OSI model, acting as a translator and traffic director between different networks.

## Key Functions of Gateway:

- ❑ **Connecting Networks:** Gateways connect two networks that might use different protocols or technologies. Imagine a gateway as an adapter that allows devices speaking different languages to communicate.



- ❑ **Routing Traffic:** When a device on your network wants to reach a device on another network, the data packet travels to the gateway. The gateway analyzes the destination address in the packet and determines the most efficient route to send it.
- ❑ **Security:** Gateways can act as security guards for your network. They can filter traffic, blocking unauthorized access and potential security threats.
- ❑ **Protocol Conversion (sometimes):** In some cases, gateways can translate data between different protocols, ensuring devices using different languages can understand each other.

पढ़िए और पढ़ाइये

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