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what is gateway in network and how it works?

how the packets are delivered from source to destination using router?

ANS).A [Router](https://www.javatpoint.com/router) is a networking layer system used to manage and forward data packets to computer networks.

Data packets are sent through the e-mail and web pages in the form of data packets. It is responsible for analyzing, forwarding, and receiving the data packets to other networks.

The packet's destination or target [IP](https://www.javatpoint.com/ip) address is determined by a router, and the best way to transmit the packet is also determined by using forwarding tables and headers.

A Router is linked to two or more data networks from different IP addresses. When a data packet comes in the line, it reads the network address data in the packet header to decide its destination.

Using the routing table or routing policy directs the packet on its path to the next network. It is primarily used in [**Wide Area Network (WAN)** and **Local Area Network (LAN)**](https://www.javatpoint.com/lan-vs-wan) domains. It is more expensive than the other network devices such as the hub, switch.

1ANS). A gateway is simply a device or hardware that acts as a **"gate"** between the networks.

We can also define it as a node that acts as an entry for other network nodes. It is also responsible for facilitating the traffic flow within the network. Gateway uses more than one communication protocol, so its activities are more complicated than a router or a switch.

A gateway is essentially a system used to communicate between networks with different protocols and are responsible for converting one protocol into another.

The gateway is a computer device that's responsible for routing traffic from the primary workstation to the outside network for every workplace form. It is responsible for providing access to the internet for households, thereby serving as an internet service provider.

EXAMPLES OF GATE WAY:

* **VoiP Trunk Gateway**
* **Network Gateway**
* **Internet-To-Orbit Gateway**
* **Media Gateway**
* **Payment Gateway**
* **Default Gateway**
* **IoT Gateway**
* **Cloud Storage Gateway**
* **Email Security Gateway**
* **Web Application Firewalls**