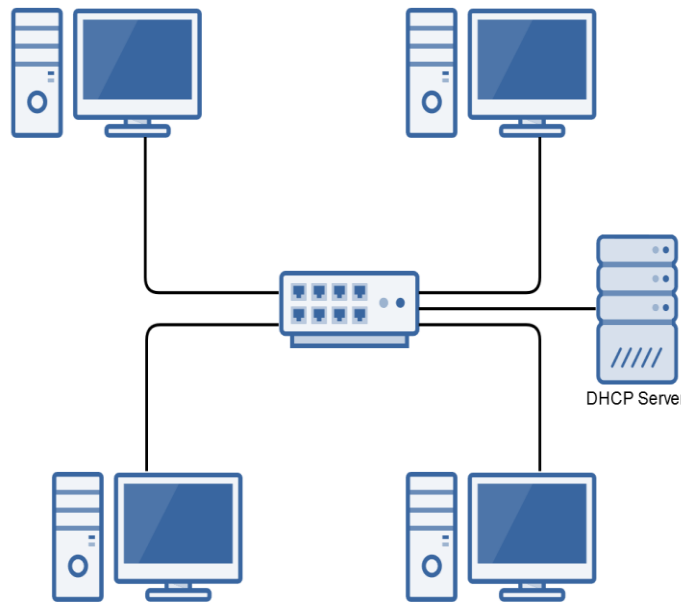


# Basic DHCP Server



- Dynamic Host Configuration Protocol (DHCP) Server
- Automatically Assigns IP Addresses to Hosts
- Makes Administering a Network Much Easier
- The Alternative is Static IP addressing



# DHCP IP Address Leasing Process (DORA)



1. Client requests an IP address by broadcasting a “**DHCP Discover**” message on it’s local subnet.
2. When the DHCP server receives the request, it’ll respond with a “**DHCP Offer**” message containing an IP address and lease information.
3. If no DHCP server is available, the client will use Automatic Private IP Addressing (APIPA) alternate configuration, if it’s configured.
4. The client then accepts the “**DHCP Offer**” by replying with a “**DHCP Request**” message to the DHCP server.
5. The DHCP server assigns client the address and sends a “**DHCP Ack**” message in response, finalizing the DHCP IP address lease.

