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| PRIVATE IP ADDRESS | PUBLIC IP ADDRESS |
| * private IP address is a unique address that your network router assigns to your device. It is used within a private network to connect securely to other devices. * These addresses have local scope * A private IP address is usually used to communicate with any other device in your house or office that is connected to your private network. * Private IP Addresses differ in a uniform manner. * All data transfers using a private IP address stay within the network and are unaffected by external factors * A Local Network Provider creates the private IP addresses by the use of network operating systems. * It is free * It is secure * 192.168.11.20 is an example of a private IP address. * The private IP addresses range from: 10.0.0.0 to 10.255.255.255, 172.16.0.0 to 172.31.255.255, and 192.168.0.0 to 192.168.255.255 | * This IP is unique ip address assigned to your network router by your internet service provider and can be accessed directly over the internet. * These addresses have global scope * A public IP address is usually used to communicate outside your network. * Public IP Addresses differ in varying ranges. * The Internet Service Provider (ISP) controls the data transfers using a public IP address. * The public IP addresses are controlled by internet service providers (ISP). * It is not free * It is not secure * 17.5.7.3 is an example of a public IP address * Except for private IP addresses, all other IP addresses are public IP. |