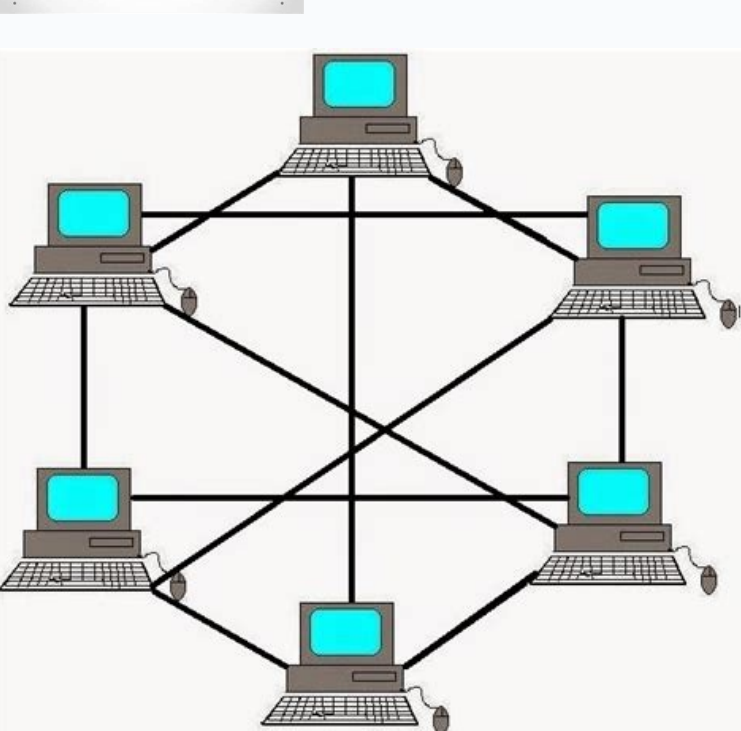
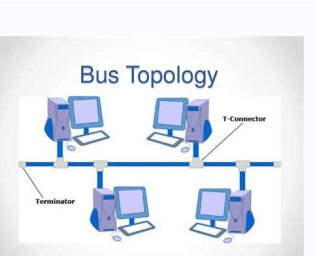
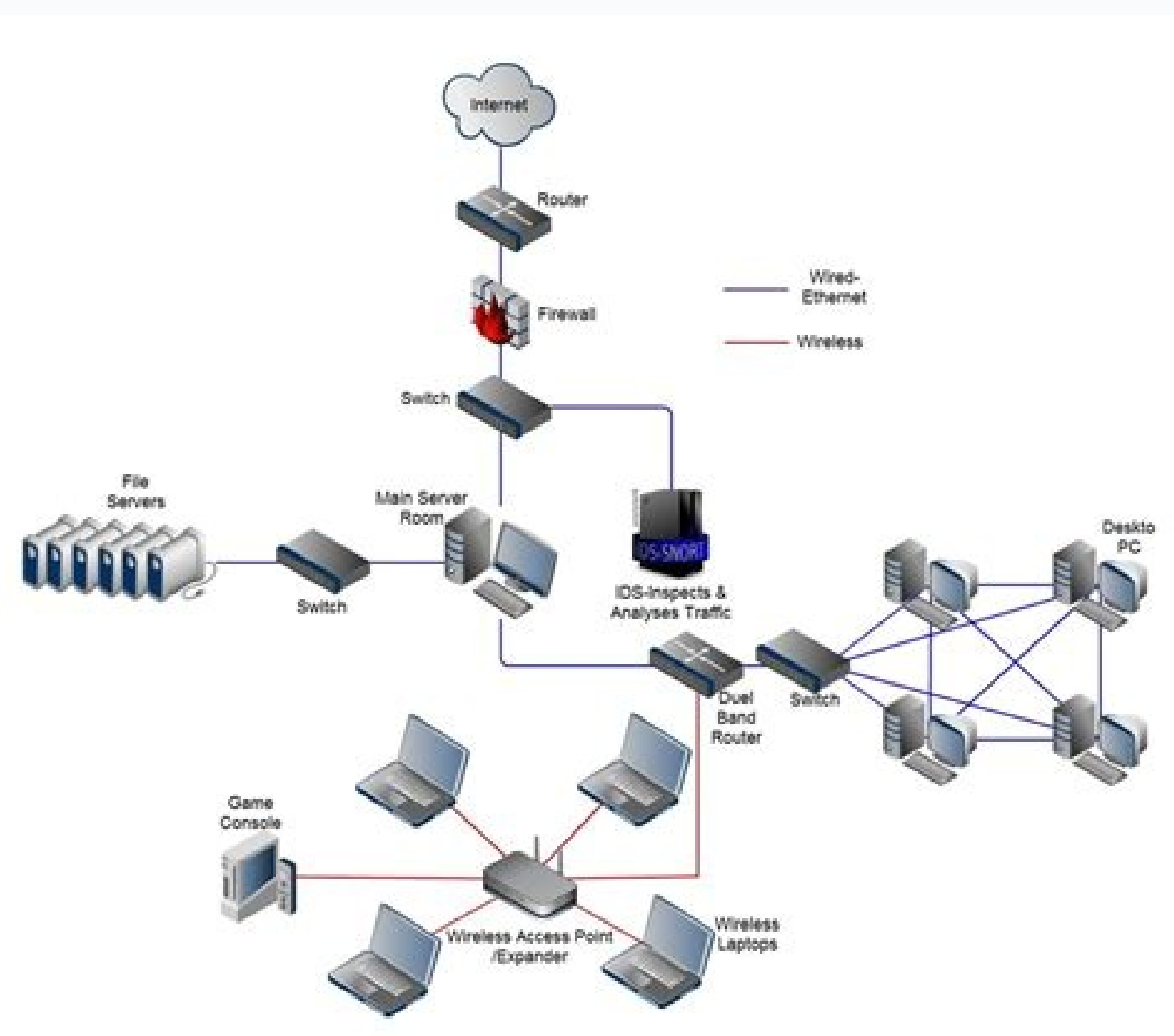
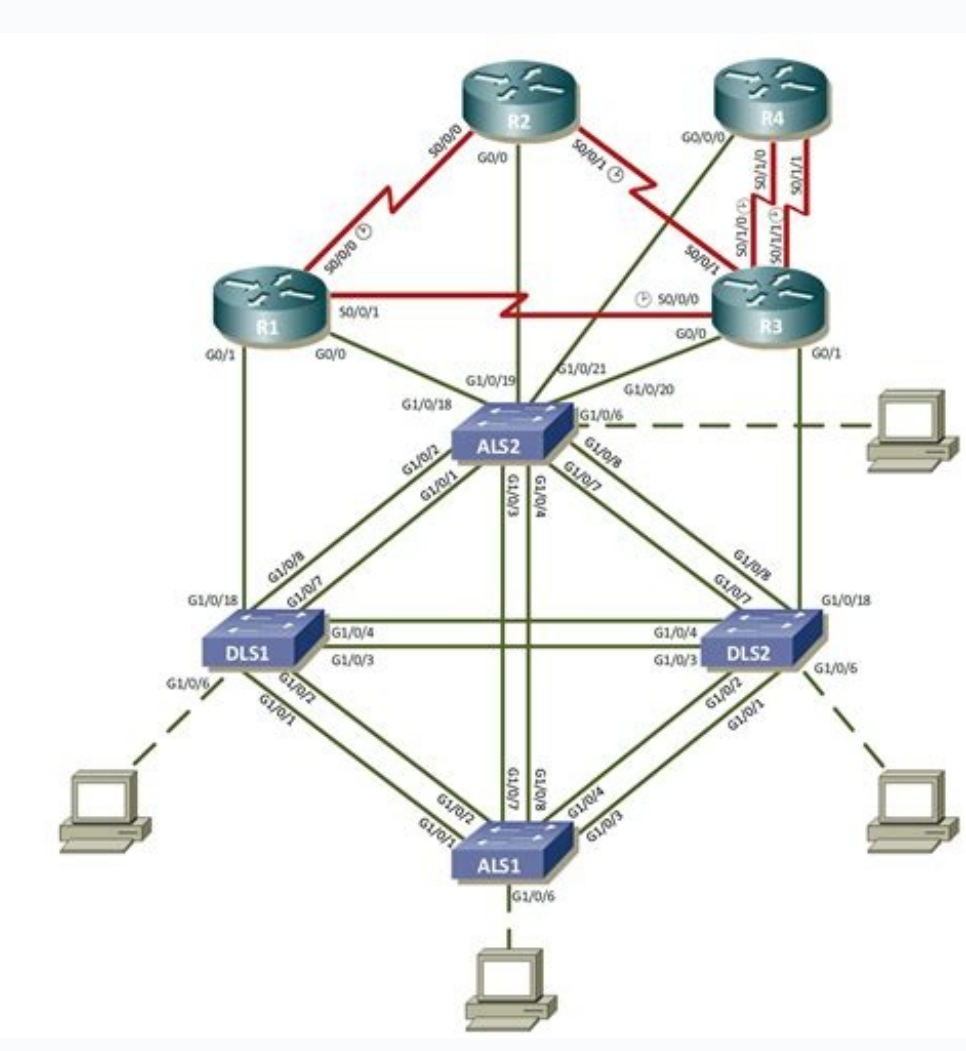
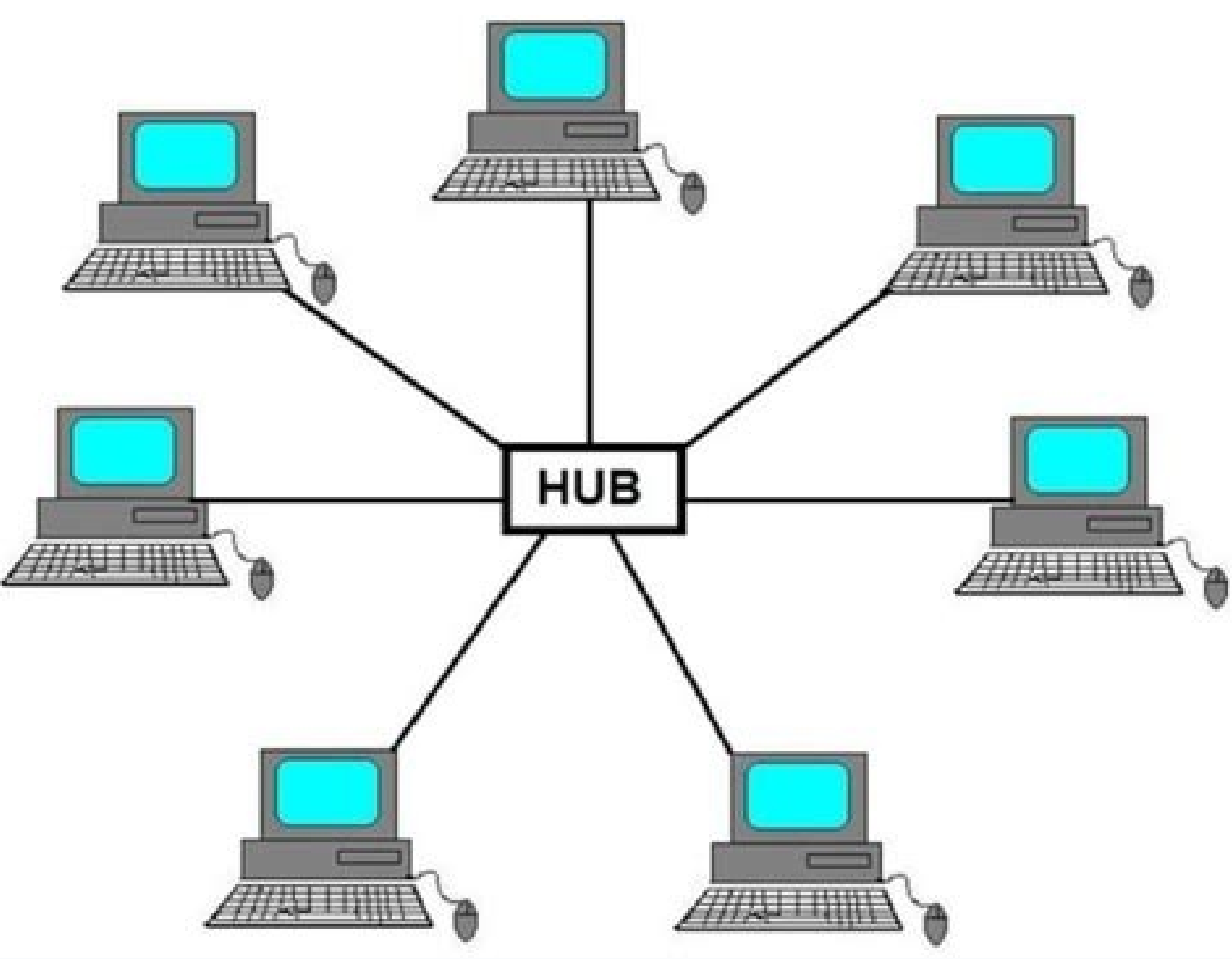


What do you mean by network topology

Continue





What do you mean by network topology discuss various physical topologies. What do you mean by network topology and explain types of them. What do you mean by network topology class 8. What do you mean by network topology write different types of topology. What do you mean by network topology explain the different types of topology. What do you mean by network topology explain in detail. What do you mean by network topology and its types. What do you mean by network topology explain.

New technologies usually go through two phases. First, people look for reliability; once that is achieved, they buy convenience. Often, years separate these two stages. Device networking is so complex that it requires the two to develop in tandem. This is one technology in which convenience is reliability. Today the first phase is being attacked by a number of middleware programs that might be thought of as operating systems for device networks. These address such issues as scalability, connectivity and maintenance. (Their sector name is mesh computing.) They come in three general flavors: proprietary (MillennialNet, SensiMesh), open-source (TinyOS) and ZigBee, the product of an industry consortium of the same name numbering nearly 200 companies. ZigBee 1.0, which was announced in June 2005, is optimized for allowing a large number—thousands—of extremely low-power devices to communicate wirelessly. Sample applications that might run on ZigBee include room-by-room sensing of utility consumption to allocate costs more precisely and improve conservation, and use of wireless monitors to define security perimeters as needed. Convenience programs run on top of these standards. These programs, for instance, might be tools that sort devices into functional groups, so that all devices that perform one type of task can be addressed with a single command ("Turn off all the valves!"), or compression algorithms that decipher sensor data locally and transmit just the necessary bits, thus avoiding the need to pump huge amounts of trash over the network. (Especially useful in the case of cameras.) Until recently, most user companies wrote their own convenience programs, but today vendors are beginning to enter what appears to be a growing market. Some of the most common topologies in use today include: Star network topology A typical star bus network Bus - Each node is daisy-chained (connected one right after the other) along the same backbone, similar to Christmas lights. Information sent from a node travels along the backbone until it reaches its destination node. Each end of a bus network must be terminated with a resistor to keep the signal that is sent by a node across the network from bouncing back when it reaches the end of the cable. Ring - Like a bus network, rings have the nodes daisy-chained. The difference is that the end of the network comes back around to the first node, creating a complete circuit. In a ring network, each node takes a turn sending and receiving information through the use of a token. The token, along with any data, is sent from the first node to the second node, which extracts the data addressed to it and adds any data it wishes to send. Then, the second node passes the token and data to the third node, and so on until it comes back around to the first node again. Only the node with the token is allowed to send data. All other nodes must wait for the token to come to them. Star - In a star network, each node is connected to a central device called a hub. The hub takes a signal that comes from any node and passes it along to all the other nodes in the network. A hub does not perform any type of filtering or routing of the data. It is simply a junction that joins all the different nodes together. Star bus - Probably the most common network topology in use today, star bus combines elements of the star and bus topologies to create a versatile network environment. Nodes in particular areas are connected to hubs (creating stars), and the hubs are connected together along the network backbone (like a bus network). Quite often, stars are nested within stars, as seen in the example below: An extended network is a common technique employed by cellular providers to enable continuous service to customers when they're in an area not covered by the company's own cell towers. When a customer travels outside of a service provider's established network coverage, their smartphone will automatically switch to a network run by another company that their own provider has made a deal with. The entire process is completely seamless and, in most cases, doesn't incur any extra fees. Data speeds on extended networks can often be slower though. Extended network LTE is one of many different phrases used by mobile phone carriers to describe the extended network feature or process described above. The phrase can be used on a provider's official website and can even appear on your iPhone or Android smartphone in place of your carrier's name once a connection has been made to a provider on an extended network. Other words and phrases frequently used by mobile providers to describe the extended network feature or process described above are: Extended network LTE Extended network data Off-network data Off-net coverage Domestic roaming Roaming domestically While the volume of different phrases used for the same service can be overwhelming, individual carriers often stick to just the one or two. You likely won't find yourself confronted with all of these words at once if you stick to just the one company. When comparing cellular providers, it's important to remember most will often use completely different words for describing the same services offered by their rivals. For example, AT&T tends to use off-network and off-net when describing their extended network options while Verizon and T-Mobile refer to this feature as domestic roaming. While Verizon does typically refer to its extended network service as domestic roaming, when this feature activates on your smartphone when out of range of a Verizon cell tower, the words Extended and Extended Network will be used to inform you of the switch. Typically, Extended will appear in place of Verizon's name at the top of your smartphone or tablet and Extended Network will display whenever you open your device's carrier settings page. As with Verizon handsets, Sprint smartphones will also display Extended or Extended Network once they've switched to a third-party provider's network. This is true for both Android smartphones and iPhones and is not something to worry about. Extended network almost exclusively refers to domestic roaming. Domestic roaming is generally a free service offered by cellular providers so they can promise their customers their smartphones will work everywhere within the United States, Puerto Rico, and the US Virgin Islands. Some older mobile plans may still charge for connecting to an extended network so it can be worth speaking to a customer service representative to confirm the specifics of your plan and to discuss the possibility of switching to a better one if available. International roaming, on the other hand, uses extended networks to provide service to customers while traveling abroad. International roaming, sometimes also called global roaming, can be very expensive and is something most should speak to their provider about if planning to use their mobile phone while overseas. The extended network feature only switches on when your default cellular provider is unavailable. This means it's impossible to manually switch back to your preferred provider. Turning your cellular settings off will simply leave you without any service at all. If your smartphone says Extended, your usual provider's network is likely out of range or unavailable. Trying to turn it off will leave you with zero service. However, if your iPhone or Android smartphone has been using an extended network for a while and you feel as if you've now traveled back within range of your provider's network, there is a way for you to trigger a potential reconnection. All you need to do is place your device into Airplane Mode for a few seconds and then turn Airplane Mode off. It should scan for the best cellular network and connect to it immediately. A network extender is a piece of physical hardware used to boost your provider's cellular network in your house or on your property. These devices are also often referred to as cell phone boosters and are completely unrelated to the extended network feature used for domestic roaming. Similar devices are also available for boosting Wi-Fi networks. You may see the phrase, extended network, pop up on social media sites and apps such as Facebook and LinkedIn. This usage also has nothing to do with domestic roaming cellular services and instead refers to second or third degree contacts or friends. For example, a friend on Facebook would be in your immediate network of Facebook friends but one of their friends that you don't know would be in your extended network. FAQ Can I use my smartphone when traveling to another country? If you want to use your phone in another country, check with your carrier for international travel plans or roaming services. You may need to rent a new phone or buy a prepaid SIM card. How do I avoid data roaming charges? Roaming fees vary, so contact your service provider or carefully research their policies online to avoid roaming charges. Turn off data roaming if you don't need it, or ask your carrier to unlock your phone so that you can buy a pre-paid cellular service. How can I make free international calls? To make free voice and video calls anywhere in the world, use an app like WhatsApp, Skype, Facetime, Google Voice, or Viber. All you need is an internet connection. Thanks for letting us know! Get the Latest Tech News Delivered Every Day Subscribe Tell us why! A convolutional neural network is a technological system in which a machine learns to recognize the contents of images for better data processing. Its name refers to its complexity (multiple convolutions, or layers, of an image which the machine must analyze) and its likeness to the brain's neural network. Computer neural networks attempt to imitate the way that the human brain analyzes the imagery that the eyes see and are considered a form of deep learning. How does a convolutional neural network work? The receivers, or filters, that observe and analyze an image are also called neurons, named for their biological counterparts. They are responsible for one particular area of an image. The images are separated into sections by height, width, and depth (if the color scale is RGB, then the image will have at least three layers). Each layer has matrices of numbers; the numbers are based on the pixelation in that section of the image. A convolutional neural network (or CNN) maps each section of a digital image and calculates the numbers in each matrix, which correspond to features in the image. In a CNN, the neurons receive input from the first layer (which is typically general information such as the edges and curves in an image) and move through the layers

sequentially. The area which neurons cover on the image expands as the system moves through more layers. The process of training machines to initially recognize features in images is called backpropagation. It requires going back through the system's image analysis and figuring out what didn't work. How are neural networks used? Neural networks are one of the most essential technologies in deep learning, a subset of machine learning that trains computers through visual exposure. The purpose is to make the machine more intelligent so that it can better process data. Facebook and Instagram are two examples of enterprises that use machine learning heavily for image processing. Facial recognition is one big use case, but other important uses fall into the category of business data analytics for sales and customer relations, including staple business campaigns like email marketing. Google uses it to improve their search relevance.

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