

Physical Network Topology Types



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1. Point-to-Point Network Topology



Advantages	Dis-advantages
<ul style="list-style-type: none"> ✓ Fastest topology (because no broadcast is required on direct connections) ✓ Most reliable than all other types of the connections 	<ul style="list-style-type: none"> ✓ It can only be used for small areas where computers are in close proximity & short distance



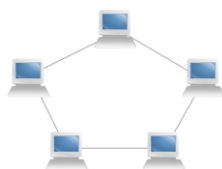
2. Bus Network Topology



Advantages	Dis-advantages
<ul style="list-style-type: none"> ✓ It is cheap as it requires less cabling ✓ Doesn't need any special equipment, It is Less complex 	<ul style="list-style-type: none"> ✓ It is more prone to problems. If main cable goes down then whole network is disturbed



3. Ring Network Topology



Advantages	Dis-advantages
<ul style="list-style-type: none"> ✓ More secure due to ring redundancy ✓ Easy to Troubleshoot, Easy to Install 	<ul style="list-style-type: none"> ✓ Scalability and expansion in existing network is a bit difficult & requires more skill



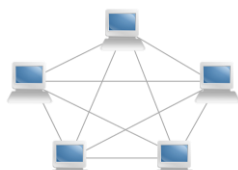
4. Star Network Topology



Advantages	Dis-advantages
<ul style="list-style-type: none"> ✓ Easier to manage, Easier to locate node and cable problems ✓ Well suited for expansion into high-speed networking 	<ul style="list-style-type: none"> ✓ Single point of failure ✓ Requires more network cables



5. Mesh Network Topology



Advantages	Dis-advantages
<ul style="list-style-type: none"> ✓ Most stable & fault tolerant ✓ Cable fault & device fault tolerant 	<ul style="list-style-type: none"> ✓ Most expensive, as it requires more cabling & infrastructure



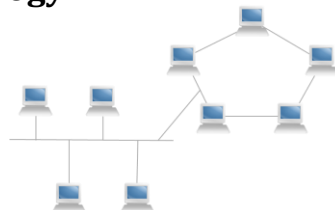
6. Tree Network Topology



Advantages	Dis-advantages
<ul style="list-style-type: none"> ✓ It is a loop free topology & is used mostly in Layer2 Networks ✓ It is an easy to scale network 	<ul style="list-style-type: none"> ✓ Single Point of Failure in case the Backbone goes down



7. Hybrid Network Topology



Advantages	Dis-advantages
<ul style="list-style-type: none"> ✓ We can achieve combined advantage of individual member topologies if properly designed 	<ul style="list-style-type: none"> ✓ It becomes complex if the network is no properly designed



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