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network architecture lays the foundation for how devices and services interact within a particular network while internet architecture provides the rules and protocols that enable these individual networks to interact and form the global internet 2 tier architecture is a network architecture concept it has two layers access layer it consists of all the lans which are connected to the switches distribution layer this layer has a multi layer switch to which every lan switch is connected network architecture refers to the way network devices and services are structured to serve the connectivity needs of client devices network devices typically include switches and routers types of services include dhcp and dns network architecture is the blueprint for your entire network that shows how devices and data communicate that s why you should choose the right architecture for your needs whether it s client server cloud based or hybrid the cisco hierarchical three layer internetworking model is an industry wide adopted model for designing a reliable scalable and cost efficient internetwork in this section you will learn about the access distribution and core layers and their role in the hierarchical network model enterprise network campus design 1 1 1 network architecture refers to a network s structural and logical layout it describes how the network devices are connected and the rules that govern data transfer between them there are many ways to approach network architecture design which depend on the purpose and size of the network network architecture is the complete framework of an organization s computer network the diagram of the network architecture provides a full picture of the established network with a detailed view of all the resources accessible network architecture is the design of a computer network it is a framework for the specification of a network s physical components and their functional organization and configuration its operational principles and procedures as well as communication protocols used what is network architecture design from scalability to flexibility and beyond understanding the fundamentals of network architecture design is essential for harnessing the full potential of modern communication technologies for any digital network architecture to succeed optimizing its foundational building blocks is crucial p2p or peer to peer and client server architectures are the two types of network architecture that frames the communication or transmission of data between systems network performance and ability differs between the two network architectures and each offer different use cases they design how a network should look and work they create the blueprint that the engineers follow to build the network types of network architecture computer networks can be classified based on architecture into two primary types peer to peer architecture client server architecture types of network architecture what is peer to peer network architecture is a logistical and structural layout that shows how network devices are connected and the rules that regulate data transfer between them its specific design depends on the size and purpose of the network so there are many ways to build it network architecture defines how an organization s information resources communicate internally and externally an organization s actual network architecture however often evolves through a mix of top down design and bottom up decision making as a result network architectures often hinder it security teams the two types of widely used network architectures are peer to peer aka p2p and client server aka tiered peer to peer architecture in a peer to peer network tasks are allocated to every the two types of network architectures are used peer to peer network client server network peer to peer network is a network in which all the computers are linked together with equal privilege and responsibilities for processing the data peer to peer network is useful for small environments usually up to 10 computers networking or computer networking is the process of connecting two or more computing devices such as desktop computers mobile devices routers or applications to enable the transmission and exchange of information and resources by chloe tucker this article explains the open systems interconnection osi model and the 7 layers of networking in plain english the osi model is a conceptual framework that is used to describe how a network functions in plain english the osi model helped standardize the way computer systems send information to each other table of contents 3 tier architecture 2 tier architecture spine leaf architecture small office home office soho architecture on premises and cloud architecture 3 tier architecture is also called three layered hierachical model used by large enterprises network architecture is the way network services and devices are structured together to serve the connectivity needs of client devices and applications network architects are responsible for designing an organization s network specifically to accomplish outlined business goals each computer network needs to be configured in such a way that all end users are able to securely and efficiently access the tools necessary to perform their job

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they design how a network should look and work they create the blueprint that the engineers follow to build the network types of network architecture computer networks can be classified based on architecture into two primary types peer to peer architecture client server architecture types of network architecture what is peer to peer

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table of contents 3 tier architecture 2 tier architecture spine leaf architecture small office home office soho architecture on premises and cloud architecture 3 tier architecture is also called three layered hierachical model used by large enterprises

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