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tcp ip specifies how data is exchanged over the internet by providing end to end communications that identify how it should be broken into packets addressed transmitted routed and received at the destination transmission control protocol accepts data from a data stream divides it into chunks and adds a tcp header creating a tcp segment the tcp segment is then encapsulated into an internet protocol ip datagram and exchanged with peers the tcp ip model is a concise version of the osi model it contains four layers unlike the seven layers in the osi model in this article we are going to discuss the tcp ip model in detail the internet protocol suite commonly known as tcp ip is a framework for organizing the set of communication protocols used in the internet and similar computer networks according to functional criteria it s often called by its foundational protocols the transmission control protocol tcp and the internet protocol ip lumped together as tcp ip these protocols describe how data on the internet is packaged addressed sent and received here s why the internet protocol suite or tcp ip is an imaginary rainbow layer cake layers are imaginary the transmission control protocol tcp is a transport protocol that is used on top of ip to ensure reliable transmission of packets tcp includes mechanisms to solve many of the problems that arise from packet based messaging such as lost packets out of order packets duplicate packets and corrupted packets the tcp ip model defines how devices should transmit data between them and enables communication over networks and large distances the model represents how data is exchanged and organized over networks tcp ip or transmission control protocol internet protocol is a protocol that sends data between two computers tcp ip stands for transmission control protocol internet protocol it s an internet protocol that allows computers to communicate with one another and transfer data across long distances tcp ip is an abbreviation for transmission control protocol internet protocol an industry standard protocol suite for wide area networks wans developed in the 1970s and 1980s by the u s department of defense dod tcp is the component that collects and reassembles the packets of data while ip is responsible for making sure the packets are sent to the right destination tcp ip was developed in the 1970s and adopted as the protocol standard for arpanet the predecessor to the internet in 1983 in this tcp ip model tutorial you will learn tcp characteristics layer types osi and tcp ip differences protocols with examples tcp ip is a protocol suite consisting of two main protocols conceived by vint cerf and bob kahn transmission control protocol tcp and internet protocol ip internet protocol defines addressing and routing how packets of data flow through the network tcp ip transmission control protocol internet protocol is a suite of communication protocols that define the standards for transmitting data over computer networks including the internet the tcp ip protocol is the foundation of the internet and enables devices to communicate with each other using a common language what s the difference between tcp and ip since tcp and ip are two different protocols they perform two different functions ip is responsible for finding the address where information is going to be sent while tcp is responsible for delivering that information to the address what is known as the tcp ip swiss army knife 9 tcp ip protocol suite and architecture tcp ip protocols page 1 of 4 since tcp ip is a protocol suite it is most often discussed in terms of the protocols that comprise it each protocol resides in a particular layer of the tcp ip architectural model we saw earlier in this section 9 min read contents what is tcp ip and what does it stand for how does tcp ip work tcp ip the four layers tcp and ip addresses what s the difference between tcp ip and ip tcp ip vs the osi model advantages of the tcp ip model 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