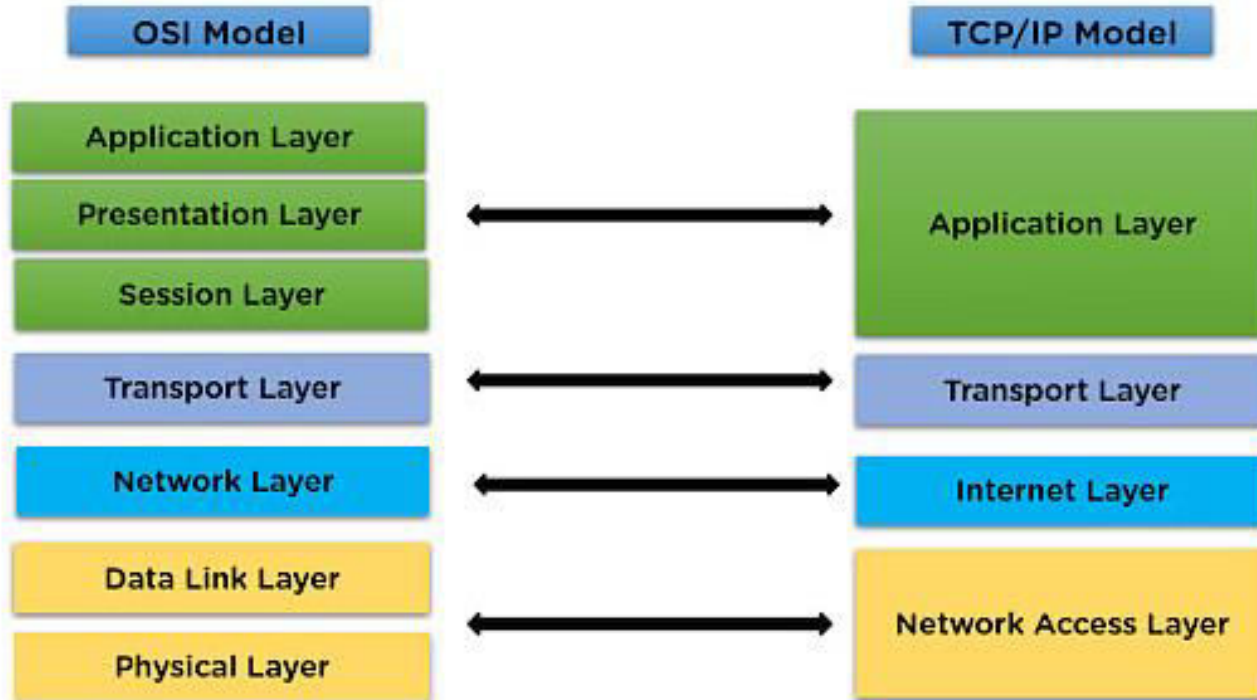


Difference between OSI and TCP/IP Model

Elementrix Classes

Difference between OSI and TCP/IP Model



| Aspect | OSI Model | TCP/IP Model |
|------------------|--|--|
| Number of Layers | Consists of 7 distinct layers. | Comprises 4 layers, sometimes seen as 5. |
| Origination | Developed by the International Organization for Standardization (ISO). | Developed by the United States Department of Defense (DoD). |
| Full Form | Open Systems Interconnection (OSI) Model | Transmission Control Protocol/Internet Protocol (TCP/IP) Model |
| Standards | Provides a standardized framework for network communication. | Provides a practical approach to networking. |
| Protocols | Designed to be independent of any specific protocol suite. | Primarily designed to support the TCP/IP protocol suite. |

| | | |
|------------------|--|---|
| Adoption | Less widely adopted in practice compared to TCP/IP. | TCP/IP is the dominant protocol suite used in practice. |
| Model Purpose | Primarily used as a reference model to understand networking concepts. | Used as a practical implementation model for building networks. |
| Complexity | More complex due to the presence of seven distinct layers. | Generally less complex due to fewer layers. |
| Real-World Usage | Often used as a theoretical framework in education and design. | Widely used for designing and implementing real-world networks. |

पढ़िए और पढ़ाइये

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