

OSI and TCP/IP Layer Identification for Topology Components

Component Type	OSI Layer(s)	TCP/IP Layer(s)
Internet Connection (Physical Media)	Layer 1 (Physical)	Layer 1 (Link)
Cloud-Based Next-Generation Firewall (NGFW)	Layers 3 (Network) - 7 (Application)	Layers 3 (Internet) - 4 (Application)
On-Premises Firewalls (Repurposed)	Layers 3 (Network) - 7 (Application)	Layers 3 (Internet) - 4 (Application)
VLANs (Logical Segmentation)	Layer 2 (Data Link)	Layer 2 (Link)
Micro-segmentation (Cloud NSGs/Security Groups)	Layers 3 (Network) - 4 (Transport)	Layers 3 (Internet) - 4 (Transport)
Centralized IAM System	Layer 7 (Application)	Layer 4 (Application)
Endpoint Detection and Response (EDR) Solutions	Layers 3 (Network) - 7 (Application)	Layers 3 (Internet) - 4 (Application)
Mobile Device Management (MDM)	Layer 7 (Application)	Layer 4 (Application)
Cloud-Based SIEM/Security Analytics Tools	Layer 7 (Application)	Layer 4 (Application)
Cloud Workload Protection Platforms (CWPP)	Layers 3 (Network) - 7 (Application)	Layers 3 (Internet) - 4 (Application)
Core Switching (Cisco, HPE Aruba)	Layer 2 (Data Link)	Layer 2 (Link)
Servers	Layers 1 (Physical) - 7 (Application)	Layers 1 (Link) - 4 (Application)
Wireless Access Points (Meraki, Aruba)	Layers 1 (Physical) - 3 (Network)	Layers 1 (Link) - 3 (Internet)
Cloud Infrastructure (IaaS, PaaS)	Layers 1 (Physical) - 7 (Application)	Layers 1 (Link) - 4 (Application)
Cloud DMZ	Layers 3 (Network) - 7 (Application)	Layers 3 (Internet) - 4 (Application)
VPN Solution	Layers 3 (Network) - 7 (Application)	Layers 3 (Internet) - 4 (Application)
Zero Trust Network Access (ZTNA)	Layers 4 (Transport) - 7 (Application)	Layers 4 (Transport) - 4 (Application)