

Foundations of Networking: Networking Basics

with Timothy Pintello

Networking Fundamentals

Videos in Foundations of Networking: Networking Basics		Topics from MTA Exam 98-366																	
1. Network Topologies	Understanding logical and physical network topologies	X																	
	Understanding mesh, bus, and ring topologies			X	X														
	Exploring star and hybrid star topologies				X														
	Understanding Point-to-point and Point-to-multipoint networks			X	X														
	Investigating Client-server and Peer-to-peer connections			X															
	Exploring network collisions, CSMA/CD and CSMA/CA			X															
	Understanding the difference between the Internet, intranets, and extranets																		

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	Understanding network infrastructures						Understanding network hardware			Understanding protocols and services		
	Understand Internet, intranet, and extranet	Understand local area networks (LANs)	Understand wide area networks (WANs)	Understand wireless networking	Understand network topologies and access methods		Understand switches	Understand routers	Understand media types	Understand the OSI model	Understand IPv4	Understand IPv6
										Understand names resolution	Understand networking services	Understand TCP/IP
2. Network Implementations												
Understanding WANs and MANs			X									
Exploring LANs, WLANs, and PANs		X		X								
Introducing SCADA/ICS and Medianets			X									
3. OSI Model												
Introducing the OSI Model										X		
Exploring Layer 1, the Physical layer									X	X		
Discovering Layer 2, the Data Link layer							X			X		
Understanding Layer 3, the Network layer								X		X	X	X
Getting around with Layer 4, the Transport layer								X		X		
Touring Layer 5, the Session layer										X		
Looking at Layer 6, the Presentation layer										X		

[illegible]

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5. Commonly Used Network Devices															
Introducing Network Interface Controllers (NICs)															
Exploring Hubs															
Understanding Bridges															
Exploring Switches															
Understanding Routers															
Introducing wired and wireless access points															