Foundations of Networking: Networking Basics



with Timothy Pintello

Networking Fundamentals

					T	opic	s fro	m I	ИTА	Exa	am 🤉	98-3	366				
Networking: Networking Basics		Understanding network infrastructures	Understand Internet, intranet, and extranet	Understand local area networks (LANs)	Understand wide area networks (WANs)	Understand network topologies and acress methods	Understanding network hardware		Understand routers	Understand media types	Understanding protocols and services	Understand the OSI model	Understand IPv4	Understand IPv6	Understand names resolution	Understand networking services	Understand I CP/IP
of.	1. Network Topologies	٠,					٠				1 [—	
ions	Understanding logical and physical network topologies					X		L								\perp	
dat	Understanding mesh, bus, and ring topologies			X	X	X		L								\perp	
Foundations	Exploring star and hybrid star topologies				X	X											
	Understanding Point-to-point and Point-to-multipoint networks			X	X	X		L									
Videos	Investigating Client-server and Peer-to-peer connections			X		X											
Vio	Exploring network collisions, CSMA/CD and CSMA/CA			X		X											
	Understanding the difference between the Internet, intranets, and extranets		X			X											

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etworking Basics		vork infrastru	Understand Internet, Intranet, and extranet Understand local area networks (LANs)			opologies and access methods	Understanding network hardware Understand switches	routers	ypes	ls and services		Understand IPv4	Understand IPv6	Understand names resolution	Understand networking services Understand TCP/IP	
king: N	2. Network Implmentations					۹										
3-	Understanding WANs and MANs			X	\Box	4	L	_	_			_	_		\perp	
two	Exploring LANs, WLANs, and PANs		X	<u> </u>	X	4	L	_	_				_			╛
f Net	Introducing SCADA/ICS and Medianets	ļ L	丄	X		╝	L								丄	╛
ns of	3. OSI Model	ļ ,				۹										
oundations	Introducing the OSI Model		╧			4	L				X		\square		\perp	
pun	Exploring Layer 1, the Physical layer								X		X				\bot	
ŭ.	Discovering Layer 2, the Data Link layer						X				X					
ni sc	Understanding Layer 3, the Network layer							X			X	X	X	X	X	
Videos in	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					

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etworking Basics		Understanding network infrastructures	Understand Internet, intranet, and extranet	area	wirele	Understand network topologies and access methods	Understanding network hardware	Understand switches	Understand routers	Understand media types	Understanding protocols and services	Understand the OSI model	Understand IPv4	Pv6	_	Understand networking services	Understand TCP/IP
]: N	Understanding Layer 7, the Application layer						ļ					X		\Box		X	
rkin	Exploring Encapsulation and de-encapsulation											X	X		X		X
two	Discovering how the layers work together											X					
Net	4. TCP/IP Model																
s of	Understanding the TCP/IP Suite												X	X	X		X
ndations	Introducing the TCP/IP Model													\Box			X
epur	Exploring the Application Layer															X	X
For	Understanding the Transport Layer																X
ni sc	Exploring the Internet Layer													\Box	\perp		X
Videos in	Touring Layer 5, the Session layer								X				X	x	\mathbf{x}		X
>	Understanding the Network Interface Layer							X		X				\perp	ightharpoonup		X
	Comparing the TCP/IP Model and the OSI Model											X					X

		Topics from MTA Exam 98-366															
s of Networking: Networking Basics		Understanding network infrastructures	Understand Internet, intranet, and extranet	Understand local area networks (LANs)	Understand wide area networks (WANs)	Understand wireless networking	Understand network topologies and access methods	Understanding network hardware	Understand switches	Understand routers	Understand media types	Understanding protocols and services	Understand the OSI model	Understand IPv4	Understand IPv6	Understand names resolution	Understand networking services Understand TCP/IP
tior	5. Commonly Used Network Devices	L,															
Foundations	Introducing Network Interface Controllers (NICs)										X						
	Exploring Hubs										X						
os in	Understanding Bridges								x								
Videos	Exploring Switches								X								
>	Understanding Routers									X							
	Introducing wired and wireless access points			X		X	X										