

Network Principles

Topic

Introduction to networking
Configure the Network Operating System
Network Protocols and Communication
Reference models
Network Access
Ethernet
Transport layer
Application Layer
Revision & Chapter Final Exam
Practical assessment

Activity

Explore the Network
Packet Tracer activities
Practical and Packet Tracer activities
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Chapter 1
Chapter 2
Chapter 3
Chapter 3
Chapter 3
Chapter 4
Chapter 9 & 10

Practical Activities:

0.0.0.1	Lab - Initializing and Reloading a Router and Switch.docx
2.1.4.7	Lab - Establishing a Console Session with Tera Term.docx
2.3.3.3	Lab - Building a Simple Network.docx
2.3.3.4	Lab - Configuring a Switch Management Address.docx
3.4.1.1	Lab - Installing Wireshark
3.4.1.2	Lab - Using Wireshark to View Network Traffic
6.3.2.7	Lab - Exploring Router Physical Characteristics
6.5.1.2	Lab - Building a Switch and Router Network

Packet Tracer Activities:

1.2.4.4	Packet Tracer - Help and Navigation Tips
1.2.4.5	Packet Tracer - Network Representation
2.1.4.6	Packet Tracer - Navigating the IOS
2.2.3.4	Packet Tracer - Configuring Initial Switch Settings
2.3.2.5	Packet Tracer - Implementing Basic Connectivity
2.4.1.2	Packet Tracer - Skills Integration Challenge
3.2.4.6	Packet Tracer - Investigating the TCP-IP and OSI Models in Action
4.2.4.4	Packet Tracer- Connectiong a Wired and a Wireless LAN
5.3.1.3	Packet Tracer - Identify MAC and IP Addresses
6.3.1.8	Packet Tracer - Exploring Internetworking Devices
6.4.1.3	Packet Tracer - Configure Initial Router Settings
6.4.3.4	Packet Tracer - Troubleshooting Default Gateway Issues
10.2.1.7	Packet Tracer - Web and Email
10.3.1.2	Packet Tracer - Explore a Network