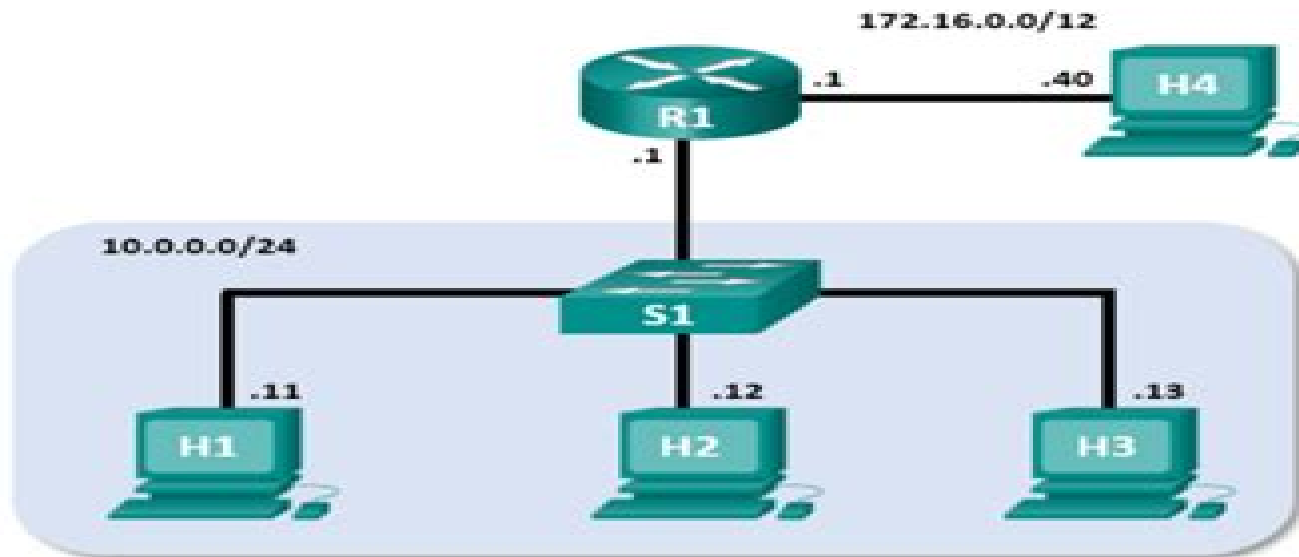


Lab – Introduction to Wireshark

Mininet Topology



Objectives

Part 1: Install and Verify the Mininet Topology

Part 2: Capture and Analyze ICMP Data in Wireshark

Background / Scenario

The CyberOps VM includes a Python script that, when you run it, will set up and configure the devices shown in the figure above. You will then have access to four hosts, a switch, and a router inside your one VM. This will allow you to simulate a variety of network protocols and services without having to configure a physical network of devices. For example, in this lab you will use the **ping** command between two hosts in the Mininet Topology and capture those pings with Wireshark.

Wireshark is a software protocol analyzer, or "packet sniffer" application, used for network troubleshooting, analysis, software and protocol development, and education. As data streams travel over the network, the sniffer "captures" each protocol data unit (PDU) and can decode and analyze its content according to the appropriate RFC or other specifications.

Wireshark is a useful tool for anyone working with networks for data analysis and troubleshooting. You will use Wireshark to capture ICMP data packets.

Wireshark Lab Guide

IPSpecialist



Wireshark Lab Guide:

CCNA Cybersecurity Operations Companion Guide Allan Johnson, Cisco Networking Academy, 2018-06-17 CCNA Cybersecurity Operations Companion Guide is the official supplemental textbook for the Cisco Networking Academy CCNA Cybersecurity Operations course. The course emphasizes real world practical application while providing opportunities for you to gain the skills needed to successfully handle the tasks, duties, and responsibilities of an associate level security analyst working in a security operations center (SOC). The Companion Guide is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course: Chapter Objectives Review core concepts by answering the focus questions listed at the beginning of each chapter; Key Terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter; Glossary Consult the comprehensive Glossary with more than 360 terms; Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter; Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes; The answer key explains each answer; How To Look for this icon to study the steps you need to learn to perform certain tasks; Interactive Activities Reinforce your understanding of topics with dozens of exercises from the online course identified throughout the book with this icon; Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer. There are exercises interspersed throughout the chapters and provided in the accompanying Lab Manual book; Videos Watch the videos embedded within the online course; Hands on Labs Develop critical thinking and complex problem solving skills by completing the labs and activities included in the course and published in the separate Lab Manual.

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