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# Network Traffic Analysis

**BONUS! Cyber Phoenix Subscription Included:** All Phoenix TS students receive complimentary ninety (90) day access to the Cyber Phoenix learning platform, which hosts hundreds of expert asynchronous training courses in Cybersecurity, IT, Soft Skills, and Management and more!

## Course Overview

This five (5) day course examines the TCP/IP protocol suite at the lowest level and prepares the student for the ability to analyze network communications. The course focuses on the main protocols to include DHCP and others. The student will learn how to identify different components of network communications and determine if the communications is normal or abnormal. The student will be introduced to the hacking methodology and the course will conclude with a challenge for the student to deploy the concepts from the class and create their own network analysis cyber range. At the end of this course students will be able to:

- Demonstrate knowledge of the TCP/IP protocol suite at the lowest level
- Analyze network communications
- Identify different components of network communications
- Determine if the communications are normal or abnormal
- Examine the hacking methodology
- Create a network analysis cyber range

## Schedule

Currently, there are no public classes scheduled. Please contact a Phoenix TS Training Consultant to discuss hosting a private class at 301-258-8200.

## Course Outline

### Module 1: Building a Cyber Range

- Introduction
- Selecting the software
- Designing the network



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- Building the network switches
- Adding machines
- LAB: Designing a Cyber Range

## Module 2: Introduction to TCP/IP

- Lab: TCP/IP OS Tools

## Module 3: Protocol Suite

- Lab: TCP/IP Layers
- Lab: Fragmentation and Reassembly
- Lab: Discovery
- Lab: TCP and UDP
  
- Lab: Sockets

## Module 4: IP Addressing

- Lab: IP Addressing

## Module 5: Subnetting

- Lab: Subnetting

## Module 6: IP Routing

- IP Routing

## Module 7: Dynamic Host Configuration Protocol

- Lab: DHCP
- Lab: Configuring and testing DHCP

## Module 8: Host Name Resolution

- Lab: Naming Resolution

## Module 9: Domain Name System

- Lab: DNS Components
- Lab: DNS configuration

## Module 10: Introduction to Sessions

- Lab: Sessions Intro
- Lab: Web Sessions
- Lab: Ipv6 Sessions

## Module 11: IPsec and Packet Filtering



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- Lab IPsec
- Lab: Stateless and Stateful packet filtering
- Lab: Firewall configuration and deployment

## **Module 12: Virtual Private Network**

- Lab: VPN

## **Module 13: IPv6 Technologies and Transitions**

- Lab: IPv6 Technologies

## **Module 14: Troubleshooting TCP/IP**

- Lab: Troubleshooting

## **Module 15: Introduction to Hacking**

- Lab: Scanning Methodology
- Lab: Exploitation and Post Exploitation
- Threat classification and analysis

## **Module 16: Hacking Analysis Methodology**

- Lab: Hacking Methodology Analysis

## **Module 17: Web Application Hacking**

- Web Application Hacking Analysis

## **Module 18: Components of Sophisticated Attacks**

- Lab: Sophisticated Attack Analysis

## **Module 19: Attack Analysis Workshop Module 20: Range Deployment Challenge**

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# GSA



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