301-258-8200 | Sales@PhoenixTS.com | www.PhoenixTS.com

View Full Course Details including Latest Schedule Online

PHOENIX TS

Python Security for Practitioners

This 4-day instructor-led training course teaches students how to create their own security defense using the Python programming language.

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 training course teaches students how to move from a theoretical understanding of offensive computing concepts to a practical implementation. Instead of relying on another attacker's tools, this course will teach students to create their own security defense using the Python programming language. This course demonstrates how to write code to intercept and analyze network traffic using Python, craft and spoof wireless frames to attack wireless and Bluetooth devices, and how to data-mine popular social media websites and evade modern anti-virus.

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.

Program Level

Intermediate

Training Delivery Methods

Group Live

Duration

5 Days / 32 hours Training

CPE credits

26 NASBA CPE Credits

Field of Study

Information Technology

Advanced Prep

N/A

Course Registration

Candidates can choose to register for the course by via any of the below methods:

- Email: Sales@phoenixts.com
- Phone: 301-582-8200
- Website: www.phoenixts.com

Upon registration completion candidates are sent an automated course registration email that includes attachments with specific information on the class and location as well as pre-course study and test preparation material approved by the course vendor. The text of the email contains a registration confirmation as well as the location, date, time and contact person of the class.

Online enrolment closes three days before course start date.

On the first day of class, candidates are provided with instructions to register with the exam provider before the exam date.

Complaint Resolution Policy

To view our complete Complaint Resolution Policy policy please click here: Complaint Resolution Policy

Refunds and Cancellations

To view our complete Refund and Cancellation policy please click here: Refund and Cancellation Policy

Course Outline

Setting Up Your Python Environment

- nstalling Kali Linux
- WingIDE

The Network: Basics

- Python networking in a paragraph
- TCP Client
- UDP Client
- TCP Server
- Replacing Netcat
- Building a TCP Proxy
- SSH with
- SSH Tunneling

The Network: Raw Sockets and Sniffing

- Building a UDP Host Discovery Tool
- Packet Sniffing on Windows and Linux
- Decoding the IP Layer
- Decoding ICMP

Owning the Network with SCAPY

- Stealing Email Credentials

- ARP Cache Poisoning with SCAPY
- PCAP Processing

Web Hackery

- The Socket Library of the Web: urlib2
- Mapping Open Source Web App Installations
- Bruite-Forcing Directories and File Locations
- Bruite-Forcing HTML form authentication

Extending Burp Proxy

- Setting Up
- Burp Fuzzing
- Bing for Burp
- Turning Website Content into Password Gold

Github Command and Control

- Setting Up a GitHub Account
- Creating Modules
- Trojan Configuration
- Building a GitHub-Aware Trojan

Common Trojaning Tasks on Windows

- Keylogging for Fun and Keystrokes
- Taking Screenshots
- Pythonic Shellcode Execution
- Sandbox Detection

Fun with Internet Explorer

- Main n the Browser
- IE COM Automation for Exfiltration

Windows Privilege Escalation

- Installing the Prerequisites
- Create a Process Monitor
- Windows Taken Privileges
- Winning the Race
- Code Injection

Automating Offensive Forensics

- Installation
- Profiles
- Grabbing Password Hashes
- Direct Code Injection

Python Security for Practitioners Training FAQs

Who should take this course?

This course is intended for security professionals tasked with developing Python applications, Pen testers looking to expand their knowledge into building security tools, and technologists needing customized tool sets.

What is the recommended experience for this course?

Students should have basic experience and understanding of any scripting or programming language.

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Phoenix TS is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State boards of accountancy have final authority on the acceptance of individual courses for CPE credit. Complaints re-garding registered sponsors may be

submitted to the National Registry of CPE Sponsors through its web site: www.nasbaregistry.org

Starting at **$2,195**

ATTENTION

For GSA pricing or Contractor quotes call 301-258-8200 – Option 2.

GSA

Price Match Guarantee

We'll match any competitor's price quote. Call us at 240-667-7757.

Included in this **Python Security for Practitioners**

- 4 days instructor-led training
- Python Security for Practitioners training book
- Eligible for MyCAA scholarship

- This course maps to the NICE framework
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*