

INTRODUCTION TO PYTHON PROGRAMMING FOR SECURITY ANALYSTS & PROFESSIONALS

Course Code: 8910

Explore the basics of writing and running Python scripts to more advanced features such as file operations, regular expressions, working with binary data, and using the extensive functionality of Python modules.

Geared for experienced security professionals, this class is an introductory, practical, hands-on Python training course that leads the student from the basics of writing and running Python scripts to more advanced features such as file operations, regular expressions, working with binary data, and using the extensive functionality of Python modules. Extra emphasis is placed on features unique to Python, such as tuples, array slices, and output formatting. This comprehensive, practical course provides an in-depth exploration of working with the programming language, not an academic overview of syntax and grammar.

This course is tailored specifically for Security Analysts and others who wish to use Python functionality for security-related tasks such as log manipulation or forensics. This course, which addresses secure coding practices, is essential for security professionals that are performing security reviews and audits of Python applications or are supporting development teams in implementing better defenses in Python.

What You'll Learn

Working within in an engaging, hands-on learning environment, guided by our expert Python practitioner, students will learn to:

- Create working Python scripts following best practices
- Use python data types appropriately
- Read and write files with both text and binary data
- Search and replace text with regular expressions
- Get familiar with the standard library and its work-saving modules
- Use lesser-known but powerful Python data types
- Create "real-world", professional Python applications
- Work with dates, times, and calendars
- Know when to use collections such as lists, dictionaries, and sets
- Understand Pythonic features such as comprehensions and iterators

Who Needs to Attend

This course is appropriate for advanced users, system administrators and web site administrators who want to use Python to support their server installations, as well as anyone else who wants to automate or simplify common tasks with the use of Python scripts.

Prerequisites

Students are required to have some basic programming experience and exposure prior to attending this course. Students should have basic development experience in any programming language, along with a working, user-level knowledge of Unix/Linux, Mac, or Windows.

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