
Introduction to Python for DevOps/Scripting Eğitimi

Eğitim Hakkında

The Introduction to Python for DevOps/Scripting training course is designed to demonstrate Python for scripting, automating, and enhancing productivity.

The course begins with an introduction to Python. Next, it explores basic programming skills to explain the necessity behind Python scripting. The course concludes by showing how to apply the knowledge from this training to solve future problems with Python.

Neler Öğreneceksiniz

- Create Python scripts to automate your daily work
- Know when Python is the appropriate solution and when it isn't
- Understand the “nuts and bolts” of programming/scripting
- Apply that knowledge to solving new problems

Eğitim İçeriği

What is Python?

- Why use Python? (and when NOT to use it)
- Comparing Python to Bash and other scripting languages

Getting Started with Python-The Basics

- Variables/Typing
- Basic types
- Built-in Python Functions
- Python Arithmetic
- Code Blocks / Colons
- Control Structures
- if/elif/else
- Loops - for, while, range operator, the in operator
- Iterables / Sequences
- Slicing Operator
- Lists
- join()/split()

- `sort()` vs. `sorted()`
- `enumerate()`/ `zip()`
- Dictionaries, Sets, and Tuples

File I/O

- Reading and writing text files
- Parsing files

Functions

- Positional arguments
- Default arguments
- Keyword arguments
- `*args`/`**kwargs`

Modules

- What are they / how to use them
- `import` vs. `from ... import...`

Useful Modules

- `argparse`: command-line parsing
- `os`, `sys`, `subprocess`: system management:
- `shutil`, `tempfile`, `glob`: file I/O and file management:

Regular Expressions

- Utilize regular expression syntax and Module (`re`)
- Search and replace
- Compile regular expression patterns
- Understand Regular expressions and input file parsing

Exception Handling in Python

- What is an exception?
- LBYL vs. EAFP styles of programming
- `try/except`, `else`, `finally`