Training: Python Academy
Network Programming with Python

TRAINING GOALS:

Python supports many common network protocols for both server and client With its standard library. In addition, there are several open source libraries that offer more functionality or other protocols.

The training have modular form, it takes half a day and can be combined with other training offerings by Python Academy.

CONSPECT:

- The twisted framework

  Twisted supports all common network protocols and allows to write own protocols with little effort. Twisted works asynchronously and therefore allows to process network connections in parallel. The basics of asynchronous programming are taught and exercised.

- Http with the standard library

  A http server for static as well as for dynamic pages is implemented with the standard library.

- Http with twisted

  A http server for static as well as for dynamic pages is implemented with twisted. The focus is on the fundamentally different approach as compared to using the standard library.

- Ftp server with twisted

  A simple ftp server will be set up with twisted.

- Ftp client with ftputil

  The library ftputil is used as a ftp client. It provides file-system-like access to a ftp server.

- Xmlrpc with the standard library

  A xmlrpc server and a xmlrpc client are implemented with the standard library.

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- Xmlrpc with twisted

  A xmlrpc server and a xmlrpc client are implemented with twisted.

- Soap with twisted

  A soap server and a soap client are implemented with twisted.

- Twisted perspective broker

  The perspective broker is part of twisted framework. It allows the distributed execution of programs a server as well as client is implemented.

- Python remote objects

  Python remote objects (pyro) offers another way for distributed computing in a heterogeneous network. A functional example is implemented.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Python Academy.

TRAINER:

Authorized Python Academy Trainer.

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