

SecurityTube Python Scripting Expert (SPSE)



SecurityTube Python Scripting Expert

<http://www.securitytube.net>

Vivek Ramachandran
Course Instructor

Module 7: Automation in Python



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Part 1: Using pexpect

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Expect and Pexpect

- Expect is an automation tool which allows you to interact with applications and automate tasks
- its been in the UNIX / Linux world for quite a bit
- Pexpect is the python module for Expect

Exercise

- Explore other modules available for automation of an SSH login process

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End of Part 1: Using pexpect

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Part 2: SSH Automation with Paramiko

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Paramiko

- Allows for easy creation of SSH and SFTP Clients
- Just 5 lines of code to create an SSH Client 😊
- You can also create the same with pexpect and other modules

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End of Part 2: SSH Automation with Paramiko

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Part 3: SSH Dictionary Attack with Paramiko

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SSH Dictionary Attack with Paramiko

- Take the previous program
- create a loop in the connect()
- read from a file (username:pass) combination
- try for each

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End of Part 3: SSH Dictionary Attack with Paramiko

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Part 4: SFTP with Paramiko

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SFTP

- Is a subsystem and typically uses a SSH transport layer underneath
- extremely easy to get an SFTP connection using the SSH connection
- can automate remote file uploads / downloads

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Part 4: SFTP with Paramiko

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Part 5: Automating Nmap

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Nmap Automation

- Can automate using pexpect or subprocess
- You can use the Python-Nmap library
- Install nmap and python-nmap library

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End of Part 5: Automating Nmap

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