

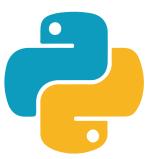
PYTHON, NETWORK AUTOMATION AND DEVNET



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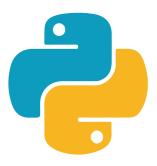


Module 1:	PYTHON – Beginner to Maestro (Learn the tool, Build a Fort):
Module 2:	Libraries for CLI automation (Automating what you already know):
Module 3:	Data serialization and libs (Your bestfriends for automation, after your Brain):
Module 4:	REST-API and Tools (You are a DEVELOPER now):
Module 5:	ANSIBLE (Trendy Topic, Easy Tool):
Module 6:	DEVNET World (Whole new way of talking withRouters and Switches):
Module 7:	Cisco Devices Programmability Options (Every Box is special):





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JOIN OUR WHATSAPP GROUP FOR INQUIRY / PRICING / REGISTRATION

https://api.whatsapp.com/send?phone=918217293118



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DEMO CLASS

WATCH DEMO CLASS VIDEO ON OUR OFFICIAL WEBSITE

https://www.netmetric-solutions.com/py-thon-for-network#course-content



COURSE SCHEDULE TIMINGS:

- **Weekend Batch (Sat & Sunday, 3 hour each, 4 weeks Duration)**
- **Minimum Timings: 10:00 AM TO 01:00 PM IST**
- ✓ 30+ hrs of Course Content
- Access to Full Recorded Videos
- **Class conducted over Zoom conference**
- ✓ Workbook, PDF, 24x7 Lab Setup Support included
- Instructor-led Online Training

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PYTHON – Beginner to Maestro (Learn the tool, Build a Fort):

- Syntax and Integrated Development Environment
- Operators and Operands
- Control structures, Loops and Loop Controls
- Functions and Modules
- In-built Data Structures
- Functional programming
- Decorator and Generator
- Object Oriented Programming(OOP) concept from a Developer, made VERY EASY
- Regular Expressions
- File and Exceptional Handling
- Logic building sessions and Doubt sessions
- Important interview topics covered and more questions to practice

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- than you can handle
- Advanced :: Multithreading/Logging/Garbage collection

"Don't worry if it doesn't work right. If everything did, you'd be out of a job."



Libraries for CLI automation (Automating what you already know):

- Scripting practice using the open libraries available
- Paramiko
- Netmiko
- Napalm
- Telnetlib
- Creating your own Module !!!

Data serialization and libs (Your bestfriends for automation, after your Brain):

- json
- yaml
- xml
- Related libraries and how to use them

'In the Coding World, Googling is an ART !!!'

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REST-API and Tools (You are a DEVELOPER now):

- HTTP and its terminologies
- HTTP CRUD and ERROR codes (google CRUD now !!)
- API
- REST
- Curl
- Postman
- Requests library
- All the above topics are CISCO preferred
- We can build a joke generating machine and play a card game !!!

"A good programmer is someone who always looks both ways before crossing a one-way street"

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ANSIBLE(Trendy Topic, Easy Tool):

- Basics of Linux environment
- Ansible components
- Hosts/inventory and .cfg
- Ad-hoc and modules
- Jinja templating
- Automate everything you can think of, using PLAYBOOKS !!

"Software Developer" – An organism that turns caffeine into software

DEVNET World (Whole new way of talking with Routers and Switches):

- A whole course in itself, summarized to ease your way into it
- Fork an official CISCO code repository(GIT Basics included)
- NETCONF
- RESTCONF
- YANG
- Using the tools above to "CRUD" configurations on the devices

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- Software Development and Design
- All the things CISCO wants you to learn

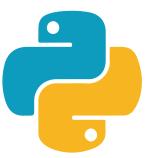
"Talk is cheap. Show me the code." – Linus Torvalds



Cisco Devices Programmability Options (Every Box is special):

- IOS XE
 - CRUD in boxes using NETCONF/RESTCONF (did you google CRUD yet?)
- NX-OS
 - NX-API
 - Overview of programmable features
 - Developer Sandbox
 - NX-OS Object
 - Data Management Engine(DME)
 - Management Information Tree(MIT)
 - Visore
- ACI
 - 'HEROES' Tenant
 - ACI GUI
 - EPG
 - Object Model
 - Cobra, Arya and Toolkit
 - CRUD a Tenant
 - SuperHeroes, Villains and a Mission

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Cisco Devices Programmability Options (Every Box is special):

- IOS XE
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- UCS
 - Unified API
 - UCS Manager python SDK
 - CRUD UCS Manager objects
 - UCS Director
 - IMC Redfish
 - IMC Powertool

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