Getting Started with SD-WAN and Programmability

Stuart Clark Developer Advocate
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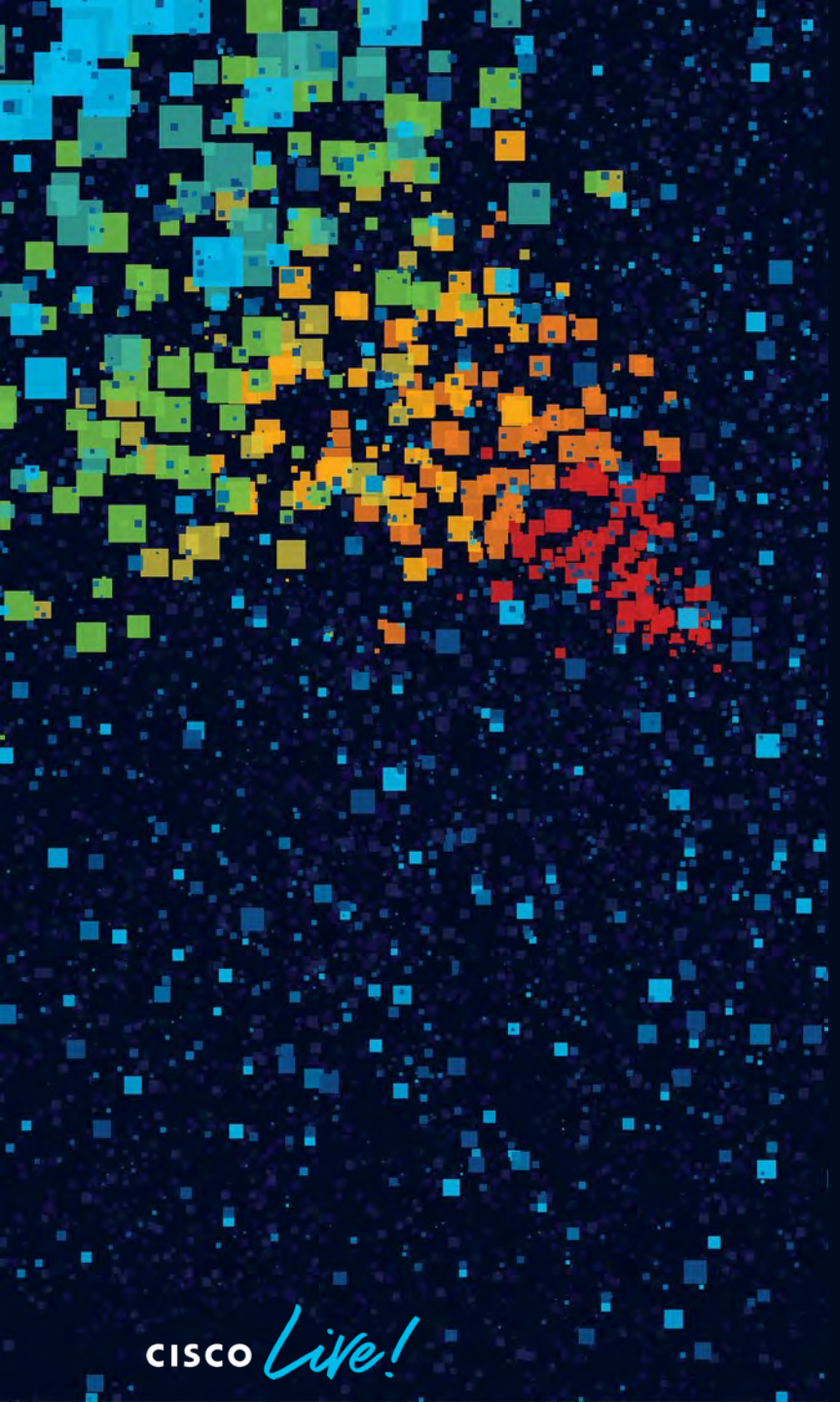

Agenda

- What is Cisco SD-WAN?
- vManage REST APIs
- Consuming vManage APIs
- The URI Structure
- Cisco DevNet SD-WAN Sandbox
- Let's get coding aka 'Demo'

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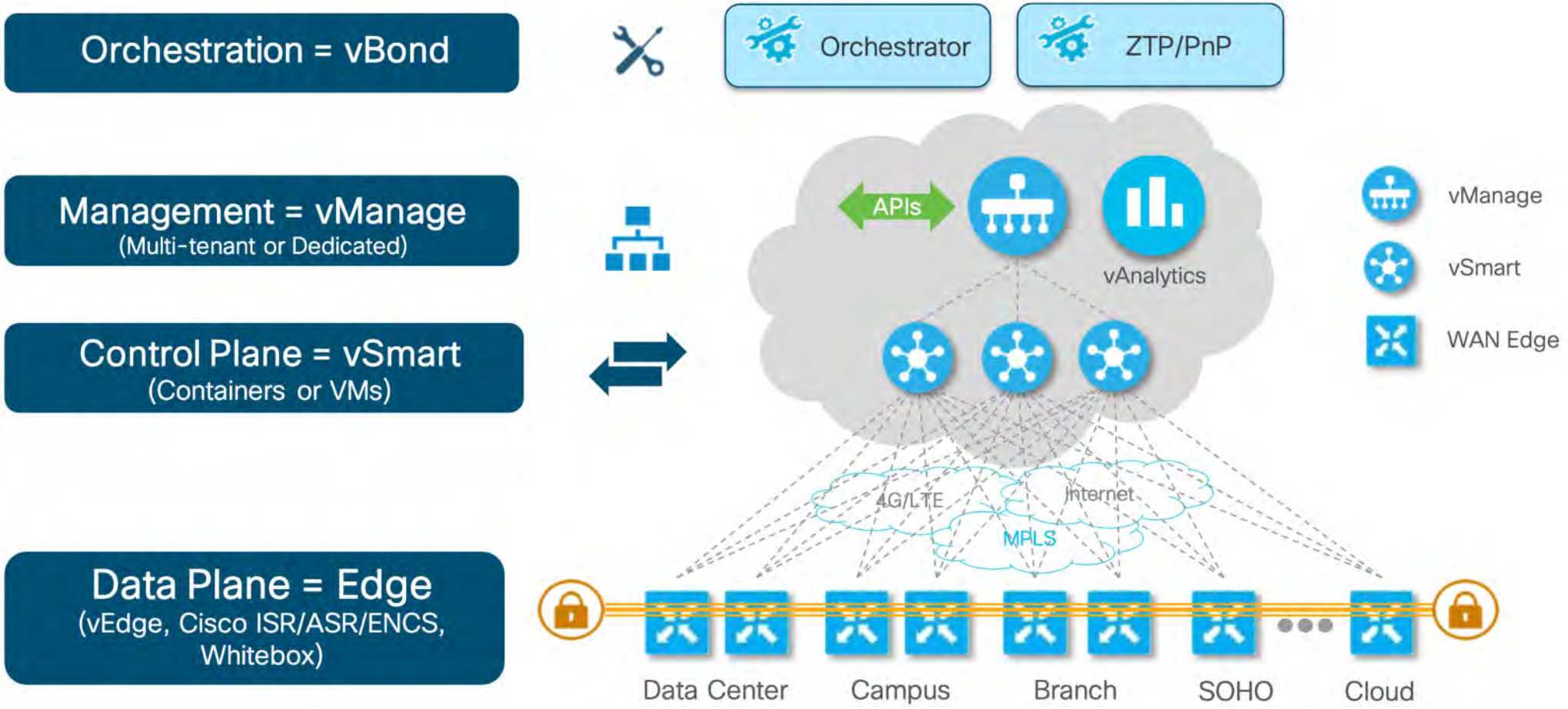
Cisco SD-WAN Architecture



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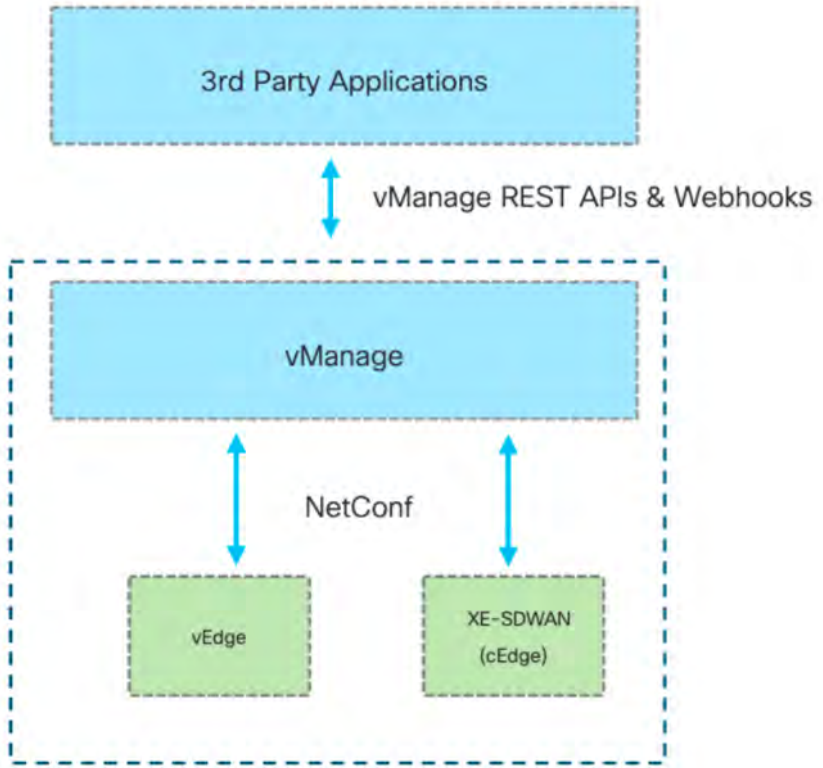
vManage REST APIs

- vManage uses REST architecture which is stateless, client-server cacheable communication protocol
- vManage exposes REST APIs and webhooks to integrated with 3rd party systems
- vManage uses NetConf for configuring and managing edge devices



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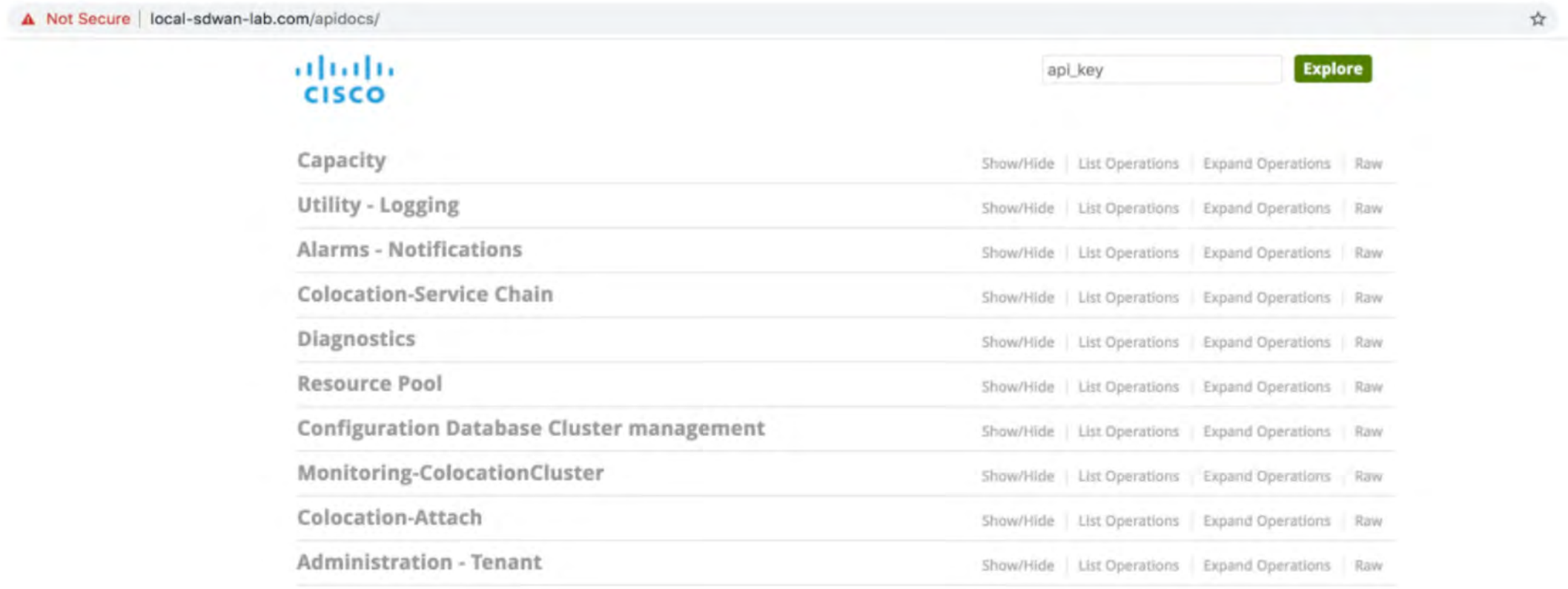
vManage – Using REST APIs



API documentation built in - https://<vmanage-ip:port>/apidocs
Test API calls can be tried within the swagger UI

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SD-WAN URI Structure

http:// or https://

- Protocol over which data is sent between client and server

Server or Host

- Resolves to the IP and port to which to connect

Resource

- The location of the data or object of interest

Parameters

- Details to scope, filter, or clarify a request. Often optional.

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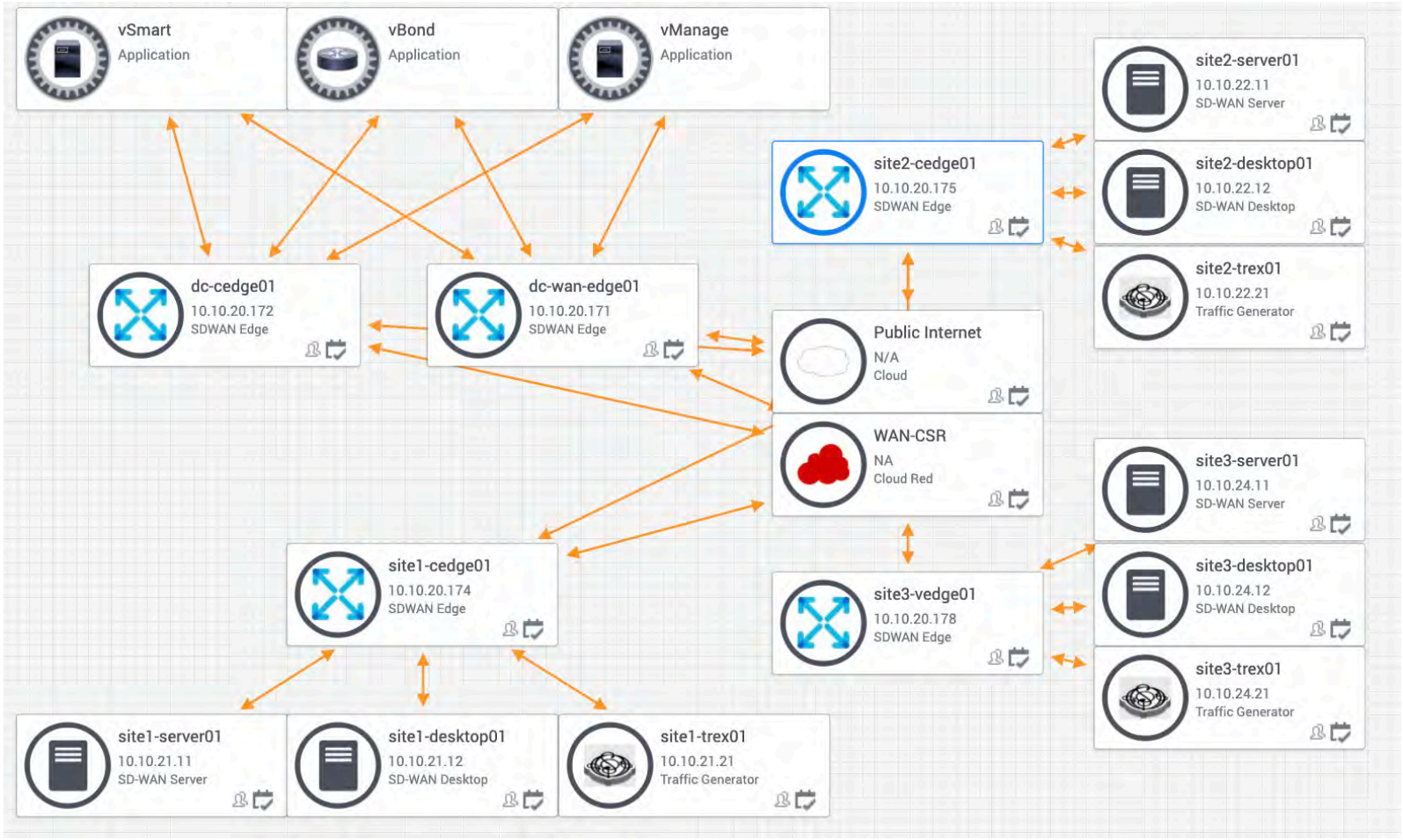
Let’s get coding aka ‘Python Demo’

Cisco DevNet SD-WAN Sandbox



https://devnetsandbox.cisco.com/

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Code and Sandbox

http://cs.co/sdwan_sandbox

http://cs.co/sdwan_postman

http://cs.co/sdwan_python

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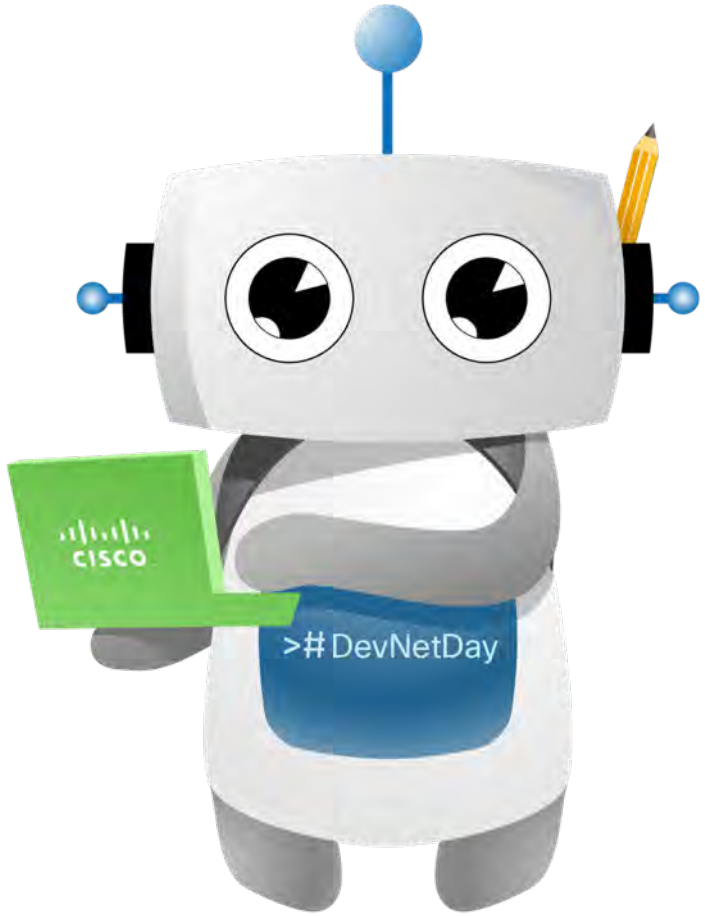
Explore More

- Automation Exchange
- Certifications
- DevNet IoT Dev Center
- Sandbox



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Got more questions? Stay in touch!

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