



# Exploring DevNet Online Resources

2.2.1

## Getting Started with DevNet Resources



DevNet gives developers a starting point for all Cisco APIs, including API documentation, education, and developer support. Part of your certification includes understanding the large number of online resources available for Cisco products that are relevant for developers, either in terms of application development or automation, and this module discusses these resources.

For a high-level overview, go to the DevNet starting page at [developer.cisco.com](https://developer.cisco.com). You'll see that the site is organized by the type of offerings which include Start Now, Learning Tracks, Video Course, Sandbox, Code Exchange, and Ecosystem Exchange. You can also explore based on the platform that interests you, including IoT, Cloud, Networking, Data Center, Security, Mobility, Open Source, Collaboration, and Services, or navigate links specifically for application developers or for infrastructure developers or for network engineers.

2.2.2

## DevNet Learning Labs



DevNet Learning Labs contain tutorials that cover engineering technologies, programming languages, and concepts such as model-driven programmability, REST APIs, Python, JavaScript, and Cisco platform instructions and exercises.

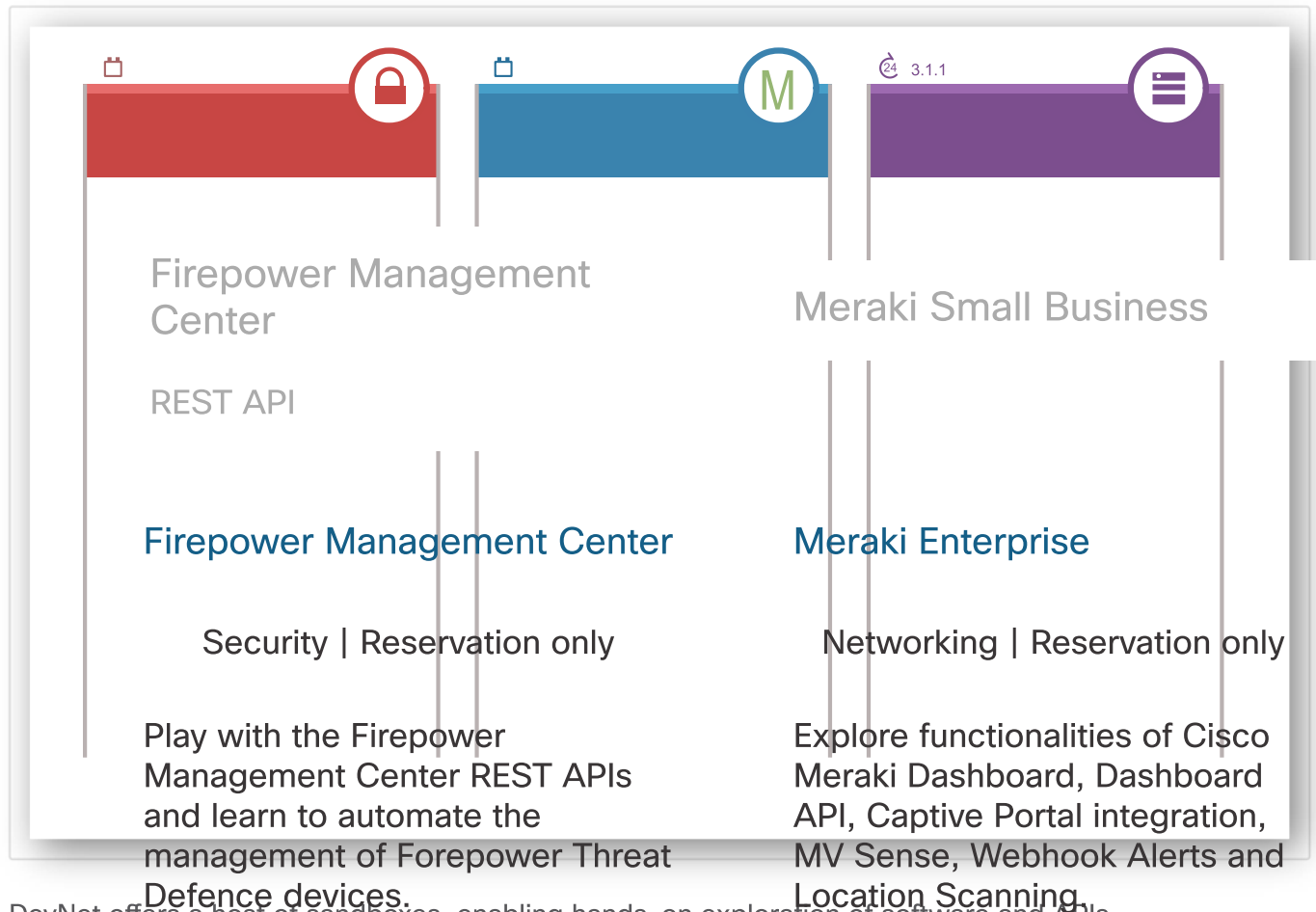
Often Learning Labs provide the best walk-through for using a DevNet Sandbox, which is a pre-configured environment that is already installed with Cisco platforms. Learning Labs also explain how to set up your own development environment so that you can practice repeatedly and try the tasks on a local computer. Learning Labs categories mimic the overall DevNet site, with tutorials on coding, collaboration, IoT, data center, mobility (mobile and wireless), and networking.

2.2.3

## DevNet Sandbox



When you're developing and testing technology, you want a test bed where you can try out code within a realistic environment without affecting production systems. To do that, go to the DevNet Sandbox offering, where you can try out Cisco hardware and environments.



DevNet offers a host of sandboxes, enabling hands-on exploration of software and APIs.

The developer lab environment that you set up at the beginning of this course is what you will use for all of the labs in this course.

2.2.4

## DevNet Exchanges



### DevNet Exchanges

DevNet provides multiple ways for community members to share with each other. These are called Exchanges. Currently, the Automation Exchange, Code Exchange, and Ecosystem Exchange are available. You can present examples to multiple audiences, both developers and business experts alike.

### Automation Exchange

The Automation Exchange provides a collection of network automation use cases with different solutions and toolkits.

For example, a typical lifecycle is to put devices into an operational state, apply configurations to the devices, then optimize. If something goes wrong, you also want to monitor and have troubleshooting tools at hand. This exchange provides examples to help with these tasks.

### Code Exchange

The social coding engine that is GitHub has changed the way we work on code. To curate a searchable subset of source code or tools repositories, DevNet has Code Exchange. Anyone can submit a repository that they have found useful for any technology area. The Code Exchange site uses the GitHub API, as well as human moderators, to categorize and display hundreds of related repositories. You can search for any keyword in the repository and get a list of results.

### Ecosystem Exchange

Because many of Cisco's platforms are for solution providers (as opposed to individuals), DevNet connects the dots for partners to fulfill solutions with developer scenarios. In the Ecosystem Exchange, you can find more than 1,500 solutions across different technologies, industries, and geographies to jump start solution design and development.

2.2.5

## Find a Use Case in Automation Exchange



The Automation Exchange provides various use cases for network automation, from listing data, to adding configurations, to activating policies across domains, users, or devices. The listings are for different tool sets such as Ansible or Puppet, and different infrastructure scenarios, from campus or branch, to data center, to service provider.

2.2.6

## DevNet Developer Support



DevNet offers developer support. DevNet can help troubleshoot integrations, API connections, and other specialty questions about developer use cases on Cisco products. A good starting point for getting your specific developer scenario questions answered is [developer.cisco.com/support](https://developer.cisco.com/support).

You can get support by:

- logging a ticket
- posting to a community forum

- accessing a Webex Teams space

DevNet also has a knowledge base with troubleshooting articles for reference.

### Opening a Support Case

DevNet provides case-based ticket support to members of the Solution Partner program. The support case is used for one-on-one support with a response time of one business day. You can also contact DevNet directly through the forums, or on Webex Teams. To open a DevNet support case, go to [developer.cisco.com/support](https://developer.cisco.com/support) and click Login. Follow the instructions on screen.

### Forums in the Cisco Developer Community

You can go to <https://devnetsupport.cisco.com> and click Community to go to the Cisco Developer community. Click Register or Log in to interact with the community online.

2.2.7

## Lab – Explore DevNet Resources



DevNet hosts many resources for developers. As a developer, you will need to understand what is available for you to use, and what offerings are specific to the platform on which you will develop. You must be familiar with what is available on the site and how to find what you need to begin developing.

In this lab, you will navigate to a lab on the DevNet site and use it to make some API requests of your own, right to real equipment!

In this lab, you will complete the following objectives:

- Part 1: Find and Navigate a Learning Lab
- Part 2: Explore More Resources



Explore DevNet Resources



2.1  
DevNet Overview

DevNet Developer Environment Summary

2.3

