Module 2: The DevNet Developer Environment

DevNet Associate v1.0

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Module Objectives

- Module Title: The DevNet Developer Environment
- Module Objective: Implement a development environment using DevNet resources.
- It will comprise of the following sections:

Topic Title	Topic Objective
2.1 DevNet Overview	Explain how DevNet encourages communities of network programmers.
2.2 Exploring DevNet Online Resources	Investigate DevNet online resources.

2.1 DevNet Overview

What is DevNet?

- DevNet is a fully-integrated developer program comprising a website, an interactive developer community, coordinated developer tools, integrated discussion forums, and sandboxes.
- The purpose of Cisco DevNet is to teach everyone about the different Cisco API offerings and how to use them.

What is DevNet?

- It consists of the following features:

  - **Learning Labs** - Self-paced tutorials that covers topics from basic coding to using REST APIs with various technologies
  - **Sandboxes** - Production-like development and testing environments for a host of technologies
  - **Code Exchange** - A repository of sample code written by other developers
  - **Developer support** - Support for developer related issues through tickets, live chats, and forums
  - **Developer documentation** - A central location for all of the product developer API documentation
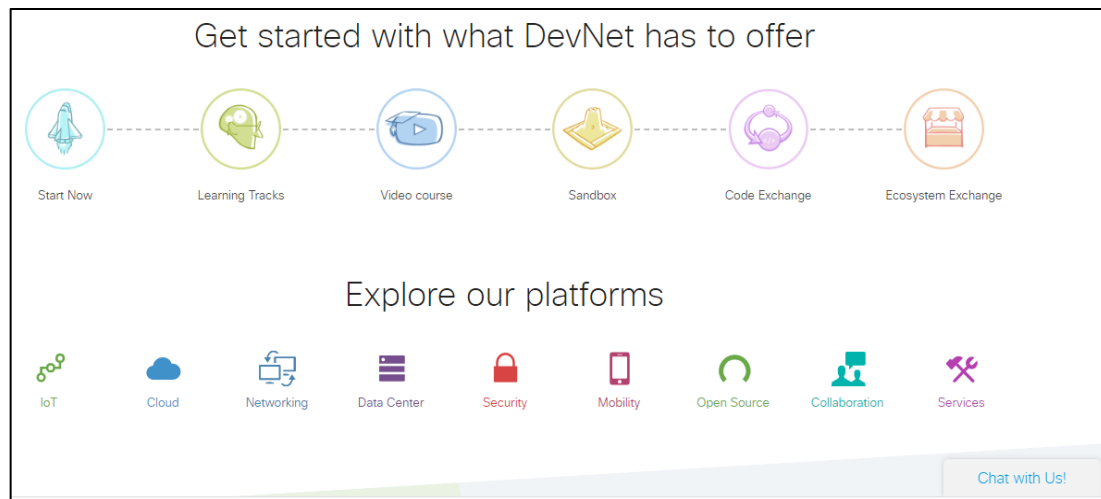
2.2 Exploring DevNet Online Resources

Getting Started with DevNet Resources

- DevNet provides developers a starting point for all Cisco APIs, including API documentation, education, and developer support.

- To get an overview of DevNet, visit the DevNet Home page at developer.cisco.com

- The site offers the following:
  - Start Now
  - **Learning Tracks** – collection of labs
  - Video Course
  - Sandbox
  - Code Exchange
  - Ecosystem Exchange

Get started with what DevNet has to offer

Start Now   Learning Tracks   Video course   Sandbox   Code Exchange   Ecosystem Exchange

Explore our platforms

IoT   Cloud   Networking   Data Center   Security   Mobility   Open Source   Collaboration   Services

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DevNet Exchanges

- Network programmability is the ability to configure, monitor, and react to events in the network in real time

- Advanced API technologies enable an industry shift towards automation, applications, and integrations.

- Participants in the DevNet Learning Labs and required to have an active internet connection and the user must successfully log in with a DevNet account.

Walk
Get visibility and insights into your network

Run
Activate network and security policies across your network

Fly
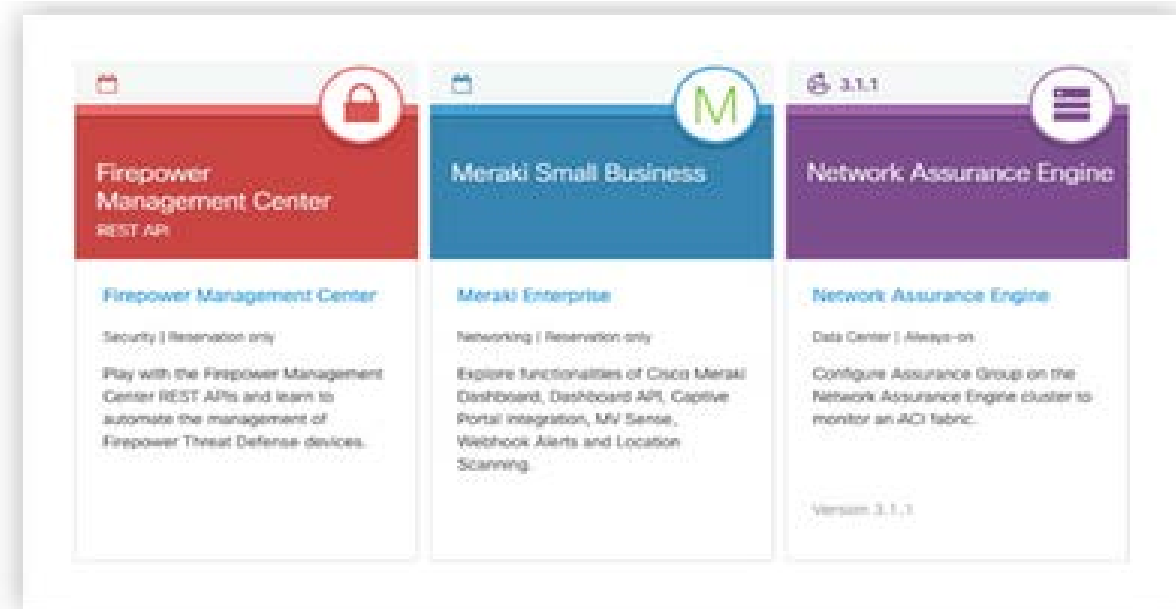Proactively manage and optimize with DevOps workflow

DevNet Learning Labs

- DevNet Learning Labs provide:
  - **Tutorials** – Cover engineering technologies, programming languages, and concepts such as model-driven programmability, REST APIs, Python, and JavaScript.
  - **A walk-through for using a DevNet Sandbox** – A pre-configured environment that is already installed with Cisco platforms.
- DevNet Learning Labs also enables you to:
  - **Set up a development environment** – For practicing tasks on a local computer
  - **Mimic the overall DevNet site** – Using tutorials on coding, collaboration, IoT, data centre, mobility (mobile and wireless), and networking.

DevNet Sandbox

- DevNet offers a host of sandboxes that enables hands-on exploration of software and APIs.

- The DevNet Sandbox can be used to test custom code in a production-like environment.

DevNet Exchanges

- DevNet provides multiple ways for community members to share solutions, tool kits, and other with each other. These are called **Exchanges**.

- Currently, the following exchanges are available:

  - **Automation Exchange** – This exchange provides a collection of network automation use cases with different solutions and toolkits.

  - **Code Exchange** – This exchange is a repository of source code or tools. It uses the GitHub API, as well as human moderators, to categorize and display hundreds of related repositories.

  - **Ecosystem Exchange** – In this exchange, one can find solutions across different technologies, industries, and geographies to begin solution design and development.

Find a Use Case in Automation Exchange

- The Automation Exchange provides various use cases for network automation that include:

  - Listing of data

  - Adding configurations

  - Activating policies across domains, users, or devices

- The listings are for different tool sets such as Ansible or Puppet, and different infrastructure scenarios, such as:

  - Campus or Branch

  - Data Centre

  - Service Provider

DevNet Developer Support

- DevNet offers developer support and can help troubleshoot integrations, API connections, and other specialty questions about developer use cases on Cisco products.

  - Integrations are used to provide applications the ability to notify each other when a specific event happens.

  - Integrations enable the applications to request actions from each other.

- Visit the website developer.cisco.com/support for more information.

DevNet Developer Support

- You can get support by:
  - Logging a ticket
  - Posting to a community forum
  - Accessing a WebEx Teams space
- 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.

DevNet Developer Support

- **Knowledge Base** – Consists of troubleshooting articles for reference.

- **Support Case** – A case-based ticket used for one-on-one support with a response time of one business day.

- **Forums in the Cisco Developer Community** – To view community forums, visit https://devnetsupport.cisco.com and click Community.

How can we help you?

Ways of support	Knowledge Base	Community Forum	Chat with DevNet	Case-Based Ticket	
Pricing	Free	Free	Free	1 ticket	$250 🛒
				5 tickets	$950 🛒
Interactions	Articles	Forum	Group chat	1 on 1 support	
Response time		Best effort	Best effort	1 business day	
Description	Browse or search articles for specific technologies	Engage with DevNet and community experts on technology-specific questions	Get quick answers from DevNet experts and the community	Case-based tickets provide 1-on-1 support for certain Cisco APIs. Please see the supported list in the F	

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2.3 DevNet Developer Environment Summary

What did I learn in this module?

- DevNet provides developers with a starting point for all Cisco APIs.
- Online Resources include DevNet Learning Labs, DevNet video courses, DevNet Sandbox, DevNet Exchanges, and extensive DevNet Support.