



Introduction

4.0.1

Why Should I Take this Module?



If you plan to automate your network (or even just parts of it), you will want to be able to create and troubleshoot Application Programming Interfaces (APIs). APIs define the way users, developers, and other applications interact with an application's components. With so many APIs to work with, you have to be sure that you understand the foundations. This module concentrates on REST APIs. Cisco has many product lines with these interfaces for multiple use cases, whether collecting data, calling services, or listening to events.

4.0.2

What Will I Learn to Do in this Module?



Module Title: Understanding and Using APIs

Module Objective: Create REST API requests over HTTPS to securely integrate services.

Topic Title	Topic Objective
Introducing APIs	Explain the use of APIs.
API Design Styles	Compare synchronous and asynchronous API design styles.
API Architecture Styles	Describe common API architecture styles.
Introduction to REST APIs	Explain the functions of REST APIs.
Authenticating a REST API	Create REST API requests over HTTPS to securely integrate services.
API Rate Limits	Explain the purpose of API rate limits.
Working with Webhooks	Explain the use of webhooks.
Troubleshooting API Calls	Explain how to troubleshoot REST APIs

