Introduction

14.0.1

Why should I take this module?

Welcome to Network Automation!

Have you set up your home network? A small office network? Imagine doing those tasks for tens of thousands of end devices and thousands of routers, switches, and access points! Did you know that there is software that automates those tasks for an enterprise network? In fact, there is software that can automate the *design* of an enterprise network. It can automate all of the monitoring, operations and maintenance for your network. Interested? Get started!

14.0.2

What will I learn in this module?

Module Title: Network Automation

Module Objective: Explain how network automation is enabled through RESTful APIs and configuration management tools.

Topic Title	Topic Objective
Automation Overview	Describe automation.
Data Formats	Compare JSON, YAML, and XML data formats.
APIs	Explain how APIs enable computer to computer communications.
REST	Explain how REST enables computer to computer communications.
Configuration Management	Compare the configuration management tools Puppet, Chef, Ansible, and SaltStack.
IBN and Cisco DNA Center	Explain how Cisco DNA center enables intent-based networking.