

Using REST APIs and JSON

This REST APIs and JSON training covers how to write REST APIs and take full advantage of existing protocols to build large, scalable systems. The key to understanding REST APIs and JSON is to remember that any time you're exchanging information between a browser and a server, the data must be text. Images, multimedia, applications, browser requests — they're all text in one form or another. REST APIs and JSON let us gather and transmit that information efficiently.

[CBT Nuggets course material](#) →

WEEK 1

XML, JSON, and YAML Data Formats

Supplemental Files

Why Use Plain Text Data Formats?

XML, JSON, and YAML Data Formats

XML Syntax

XML Elements, Tags, and Attributes

XML Document Object Model (DOM)

JSON Syntax

JSON Strings, Numbers, and Booleans

JSON Objects and Arrays

YAML Syntax

YAML Strings, Numbers, Floats, and Booleans

Data Formats Summary

Supplemental Files

REST API Fundamentals

Overview

Introducing RESTful APIs

RESTful API Constraints

REST vs. SOAP

REST Tools

RESTful API Summary

REST API Requests and Responses

Overview

Introducing REST API Requests and Responses

Request and Response

HTTP Request Method

HTTP Response Codes

HTTP Headers

HTTP Requests and Responses Summary

Parameters and Payloads for REST APIs

Overview

Introduction to HTTP Parameters and Payloads

HTTP Query Strings

HTTP Payloads

Query Strings and Payloads in Action

HTTP Parameters and Payloads Summary

Authentication with HTTP and REST

Overview

Introduction to REST Authentication

Base64 Encoding vs. Encryption

HTTP Basic Authentication

API Key Authentication

Token Authentication

HTTP Authentication Summary

Use Postman for REST API Interaction

Overview

Introduction to Postman

Postman Requests and Responses

HTTP Auth with Postman

Postman Collections and Folders

Postman Scripts

Postman Environments

Postman Summary

Use REST APIs and JSON

Overview

You are a Network Developer

API vs. SNMP vs. CLI

What is a REST API?

Navigating a REST API

HTTP Verbs

Programming 101

Programming Playground Lab

JSON, YAML, or XML?

Interpreting JSON

REST API Lab

Becoming a Network Developer

WEEK 2