

# Node.js Performance Workshop

This course is designed to help developers and operations engineers to gain a deep understanding of the inner workings of Node.js and V8, with an eye on fine-tuning code decisions and deployment for maximum speed and efficiency at runtime. Tools for debugging performance issues are also presented along with best practices for building scalable solutions.

## Who Should Attend:

Node.js Engineers, Operations Engineers

## Pre-Requisites:

Familiarity with JavaScript and Node.js

## Duration:

2 Days

## Learning Objectives:

By the end of training, attendees will:

- ✓ Understand how V8 runs Node.js
- ✓ Understand how to fine-tune code for maximum speed and efficiency at runtime
- ✓ Understand the implications of various choices on the ultimate real-world performance of the system including code and API design choices
- ✓ Understand whether or not individual tasks should be written in Node.js or not
- ✓ Understand how to build scalable systems

## Topics Covered:

Topics include, but are not limited to: modules, callbacks, eventEmitters, error handling, buffers, streams, file system, TCP, HTTP, UDP, child process, cluster, assert, and debugging.