NodeJS Introduction

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This NodeJS introduction gives a solid grounding across the breadth of uses for NodeJS. Best practices are consolidated through hands on exercises and the fast growing opportunities for using NodeJS in practice are explored.

Course Duration 2 Days

The course runs from 9.30 am to approximately 4.30 pm.

Overview of NodeJS

Installing Node
Node Command-Line Options
Node Hosting Environments
Semantic Versioning

Node Global Objects and Events

Asynchronous Node
Global and process objects
Buffers and Typed Arrays
Callback and Asynchronous Event Handling
The Event Queue
Creating Asynchronous Callback Functions
EventEmitter

Node Modules and Node Package Manager (Npm)

Overview of the Node Module System
Explorating of NPM

Node and the Web
The HTTP Module: Server and Client
Creating a Static Web Server

Node and the Local System
Streams and Pipes
File Read and Write

Networking, Sockets, and Security
Servers, Streams, and Sockets
Socket.io

Processes
spawn, exec
Running a Child Process Application

Node and ES6
Strict Mode
let and const
Arrow Functions
Classes
Promises

Full-stack Node Development
The Express Application Framework
MongoDB
Angular
Debugging Node Applications

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