

Node.js Fundamentals

A comprehensive training program that covers the fundamentals of Node.js.

Category: Programming · Duration: 3 days

WHO IT IS FOR

- Java developers
- JavaScript developers moving to the back end
- Beginners welcome: no prior experience required

This training program will provide participants with a solid foundation in Node.js, covering important concepts and techniques. Participants will learn how to build scalable and efficient server-side applications using Node.js.

Prerequisites

Basic knowledge of JavaScript

Syllabus

- Introduction to Node.js
- Setting up Node.js environment
- Asynchronous programming with callbacks
- Working with modules and packages
- Building RESTful APIs with Express.js
- Database integration with MongoDB
- Authentication and authorization
- Error handling and debugging
- Testing and test-driven development
- Deploying Node.js applications
- Performance optimization
- Security best practices
- Scaling Node.js applications
- Integration with front-end technologies (e.g., React)
- Using Node.js frameworks (e.g., Express)
- Working with streams and buffers
- Websockets and real-time communication

- Caching and performance optimization
- Logging and monitoring
- Deployment strategies and tools