

Node.js

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What is Node.js?

- JavaScript runtime built on Chrome's V8 JavaScript engine
- Uses an event-driven, non-blocking I/O model
- Created by Ryan Dahl in 2009
- Allows JavaScript to run on your machine as a standalone process, outside of the browser
- Platform for building high performance networked, web apps using JavaScript
- Foundation of MEAN / MERN stack

What is Node.js?

- **Benefits**

- Node.js apps are lightweight and efficient
 - Efficient use of system resources
 - Serve more users on fewer resources
- JavaScript code, leverage existing JS knowledge
- No need to run a separate web server
- Provides greater control over app logic as well as app environment

What is Node.js?

- Node.js is a platform to build
 - Real-time apps like chat servers
 - Collaborative multi-user apps
 - Real-time games
 - Data streaming servers
 - APIs for web & mobile apps
 - Apps that require heavy I/O (high concurrency)
 - Apps with high degree of scalability

Setting up Node.js

- Download NodeJS
 - <https://nodejs.org/en/download/>
 - <https://nodejs.org/en/download/package-manager/>
- Check the NodeJS and NPM Versions.

```
> node --version      (or)      node -v  
> npm --version       (or)      npm -v
```

NPM

- NPM - Node Package Manager
 - Allows developers to share and borrow packages
 - Packages
 - extend the functionality of your app
 - promote reusability
 - Consists of three distinct components
 - The Website: discover packages, set up profiles and manage other aspects
 - The Registry: database of information about packages
 - The Command Line Interface (CLI): runs from the terminal, gets installed with Node.js setup
 - For more information, visit this link
 - <https://docs.npmjs.com/getting-started/what-is-npm>

Q & A

- Thank you!