



Node.js

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Introduction to Node.js

- Open-source, cross-platform runtime environment
- Built on Chrome's V8 JavaScript engine
- Executes JavaScript server-side

Why Node.js?

- Great for scalable and real-time applications like chat, collaborative tools, and online gaming.
- Event-driven architecture
- NPM (Node Package Manager)

Installation and Setup

- Download from the official website
- Verify installation **node -v** and **npm -v**

Writing Your First Node.js Script

- Create a file **hello.js**
- Write **console.log("Hello, World!");**
- Run **node hello.js**

Basic Web Server

```
const express = require('express');  
const app = express(); // Binds the express module into 'app'  
  
app.get('/', (req, res) => res.send(`Landing Page`));  
  
app.listen(3000, "localhost", () =>  
  console.log(`Local server listening on port 3000`));
```

NPM and Packages

- Initializing a project **npm init**
- Installing packages **npm install**
<package_name>

NPM Packages and Modules

- Module: Reusable code in a single file
- Package: Collection of modules
- Modules are building blocks of packages

NVM - Node Version Manager

- NVM allows you to install and manage multiple versions of Node.js and npm,
- easier to work on different projects that may require specific versions.
- use **nvm list** and **nvm use <version>** to list and change versions



Thank you