Node.js

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Feb 2017

Contents

1 Introduction **1**
1.1 What is Node.js? 1
1.2 Features of Node.js 1
1.3 Concepts 2
1.4 Where to Use Node.js? 2

2 Environment Setup **3**

3 First Application **5**

4 Package Manager (NPM) **7**

5 Callbacks Concept **9**

6 Event Loop **11**

7 Event Emitter **13**

8 Buffers **15**

9 streams **17**

10 File System **19**

11 Global Objects **21**

12 Utility Module **23**

13 Web Module **25**

Chapter 1

Introduction

1.1 What is Node.js?

Node.js is a server-side platform built on Google Chrome's JavaScript Engine (V8 Engine). Node.js was developed by Ryan Dahl in 2009

Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.

Node.js also provides a rich library of various JavaScript modules which simplifies the development of web applications using Node.js to a great extent.

1.2 Features of Node.js

-Asynchronous and Event Driven

-Single Threaded but Highly Scalable

-Very Fast

-No Buffering

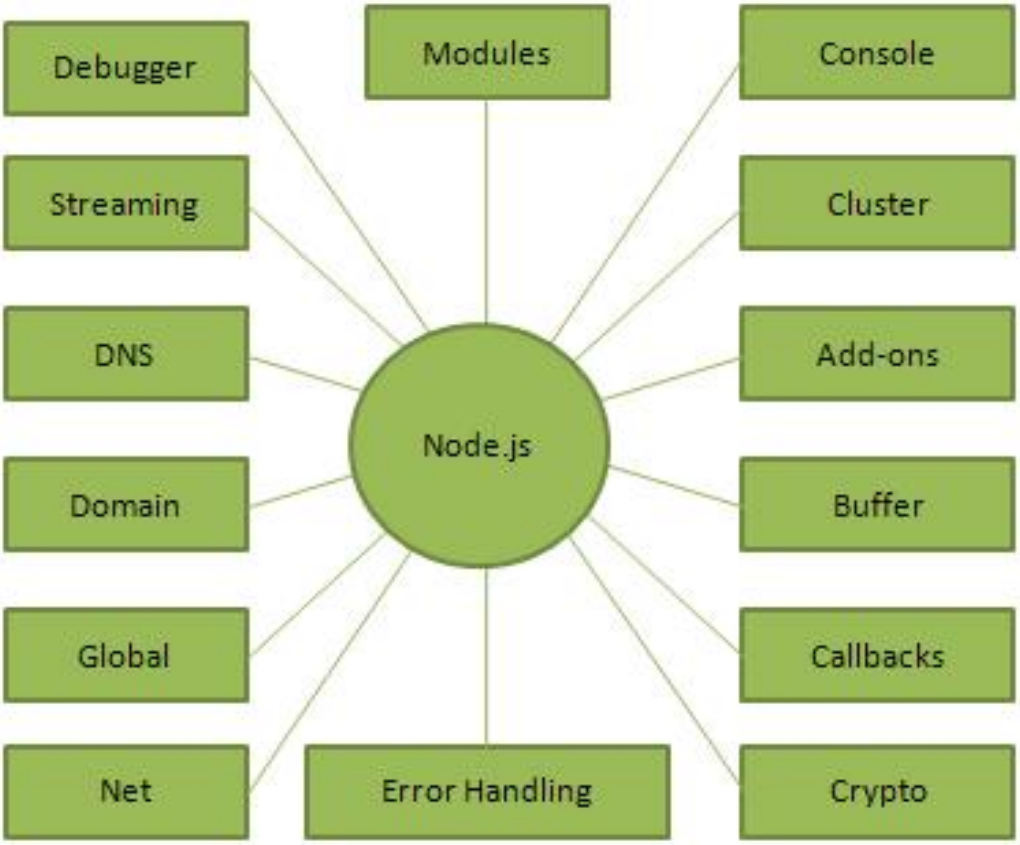

Figure 1.1:

1.3 Concepts

The diagram in 1.1 figure depicts some important parts of Node.js which we will discuss in detail in the subsequent chapters.

1.4 Where to Use Node.js?

- I/O bound Applications
- Data Streaming Applications
- Data Intensive Real-time Applications (DIRT)
- JSON APIs based Applications
- Single Page Applications

Chapter 2

Environment Setup

2.1 444

Chapter 3

First Application

Chapter 4

Package Manager (NPM)

Chapter 5

Callbacks Concept

Chapter 6

Event Loop

Chapter 7

Event Emitter

Chapter 8

Buffers

Chapter 9

streams

Chapter 10

File System

Chapter 11

Global Objects

Chapter 12

Utility Module

Chapter 13

Web Module