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before the page is sent to the user's web browser. Don't go to your next Nodejs interview without checking that list of 19 most advanced Node js interview questions that may get you your next full stack developer job offer!

Q1: What is Node.js?





Answer

Node.js is a web application framework built on Google Chrome's JavaScript Engine (V8 Engine).

Node.js comes with runtime environment on which a Javascript based script can be interpreted and executed (It is analogus to JVM to JAVA byte code). This runtime allows to execute a JavaScript code on any machine outside a browser. Because of this runtime of Node.js, JavaScript is now can be executed on server as well.

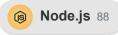
Node.js = Runtime Environment + JavaScript Library

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Source: tutorialspoint.com

Q2: What are the benefits of using Node.js?





Answer

Following are main benefits of using Node.js

Aynchronous and Event Driven - All APIs of Node.js library are aynchronous that is non-blocking. It
essentially means a Node.js based server never waits for a API to return data. Server moves to next
API after calling it and a notification mechanism of Events of Node.js helps server to get response
from the previous API call.











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Event mechanism helps server to respond in a non-bloking ways and makes server highly scalable as opposed to traditional servers which create limited threads to handle requests. Node js uses a single threaded program and same program can services much larger number of requests than traditional server like Apache HTTP Server.

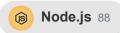
 No Buffering - Node.js applications never buffer any data. These applications simply output the data in chunks.

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Q3: What is an error-first callback?





Answer

Error-first callbacks are used to pass errors and data. The first argument is always an error object that the programmer has to check if something went wrong. Additional arguments are used to pass data.

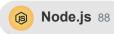
```
fs.readFile(filePath, function(err, data) {
   if (err) {
      //handle the error
   }
   // use the data object
});
```

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Q4: What is global installation of dependencies?





Answer

Globally installed packages/dependencies are stored in <user-directory>/npm directory. Such dependencies can be used in CLI (Command Line Interface) function of any Node.js but can not be imported using require() in Node application directly. To install a Node project globally use -g flag.

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Answer

By providing callback function. Callback function gets called whenever corresponding event triggered.

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35 Top Angular 7 Interview Questions To Crack in 2019



Q6: If Node.js is single threaded then how it handles concurrency?



Answer

Node provides a single thread to programmers so that code can be written easily and without bottleneck. Node internally uses multiple POSIX threads for various I/O operations such as File, DNS, Network calls etc.

When Node gets I/O request it creates or uses a thread to perform that I/O operation and once the operation is done, it pushes the result to the **event queue**. On each such event, **event loop** runs and checks the queue and if the execution stack of Node is empty then it adds the queue result to execution stack.

This is how Node manages concurrency.

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Source: codeforgeek.com

Q7: What is Event Emmitter?





Node.js 88

Answer

All objects that emit events are members of EventEmitter class. These objects expose an eventEmitter.on() function that allows one or more functions to be attached to named events emitted by the object.











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```
const EventEmitter = require('events');

class MyEmitter extends EventEmitter {}

const myEmitter = new MyEmitter();

myEmitter.on('event', () => {
   console.log('an event occurred!');
});

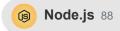
myEmitter.emit('event');
```

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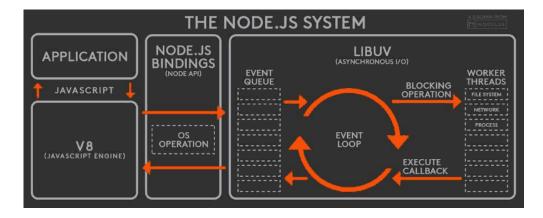
Q8: What's the Event Loop?





Answer

The event loop is what allows Node.js to perform non-blocking I/O operations — despite the fact that JavaScript is single-threaded — by offloading operations to the system kernel whenever possible.



Every I/O requires a callback - once they are done they are pushed onto the event loop for execution. Since most modern kernels are multi-threaded, they can handle multiple operations executing in the background. When one of these operations completes, the kernel tells Node.js so that the appropriate callback may be added to the poll queue to eventually be executed.

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Source: blog.risingstack.com

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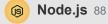


Coding

System Design

Q9: Explain usage of NODE_ENV

Senior



Answer

Node encourages the convention of using a variable called NODE_ENV to flag whether we're in production right now. This determination allows components to provide better diagnostics during development, for example by disabling caching or emitting verbose log statements. Setting NODE_ENV to production makes your application roughly 3 times faster.

```
// Setting environment variables in bash before starting the node process
$ NODE_ENV=development
$ node
```

And reading variable:

```
if (process.env.NODE_ENV === "production")
    useCaching = true;
```

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Source: github.com/i0natan/nodebestpractices



29 T-SQL Interview Questions Devs Must Know (ANSWERED for 2020)









Caté separation for dev and prod

environments

Answer

A perfect and flawless configuration setup should ensure:

- keys can be read from file AND from environment variable
- · secrets are kept outside committed code
- · config is hierarchical for easier findability

Consider the following config file:

```
var config = {
  production: {
    mongo : {
      billing: '****'
    }
  },
  default: {
    mongo : {
      billing: '****'
    }
  }
}
exports.get = function get(env) {
  return config[env] || config.default;
}
```

And it's usage:

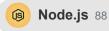
```
const config = require('./config/config.js').get(process.env.NODE_ENV);
const dbconn = mongoose.createConnection(config.mongo.billing);
```

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Source: github.com/i0natan/nodebestpractices

Q11: What are the Timing features of Node.js?





Answer

The **Timers** module in Node.js contains functions that execute code after a set period of time.











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- setImmediate/clearImmediate will execute code at the end of the current event loop cycle
- process.nextTick used to schedule a callback function to be invoked in the next iteration of the Event Loop

```
function cb() {
   console.log('Processed in next iteration');
}
process.nextTick(cb);
console.log('Processed in the first iteration');
```

Output:

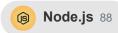
```
Processed in the first iteration
Processed in next iteration
```

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Source: github.com/jimuyouyou

Q12: What is LTS releases of Node.js why should you care?





Answer

An **LTS(Long Term Support)** version of Node.js receives all the critical bug fixes, security updates and performance improvements.

LTS versions of Node.js are supported for at least 18 months and are indicated by even version numbers (e.g. 4, 6, 8). They're best for production since the LTS release line is focussed on stability and security, whereas the *Current* release line has a shorter lifespan and more frequent updates to the code. Changes to LTS versions are limited to bug fixes for stability, security updates, possible npm updates, documentation updates and certain performance improvements that can be demonstrated to not break existing applications.

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Source: github.com/i0natan/nodebestpractices

Q13: What tools can be used to assure consistent code style?





JavaScript 142











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- · JSLint by Douglas Crockford
- JSHint
- ESLint
- JSCS

These tools are really helpful when developing code in teams, to enforce a given style guide and to catch common errors using static analysis.

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Source: blog.risingstack.com

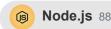


25+ JavaScript Coding Interview Questions (SOLVED with CODE)



Q14: Consider following code snippet





Answer

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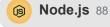






Q15: Explain what is Reactor Pattern in Node.js?

Expert



Answer

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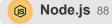








Expert



Node.js 88

try/catch block

Answer

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Expert

Q17: What is the difference between

process.nextTick() and

setImmediate() ?

Answer

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