# Download a file from NodeJS Server using **Express**

Ask Question

How can I download a file that is in my server to my machine accessing a page in a nodeJS server?

I'm using the ExpressJS and I've been trying this:

```
app.get('/download', function(req, res){
  var file = fs.readFileSync(__dirname + '/upload-folder/dramaticpenguin.MOV',
'binary');
  res.setHeader('Content-Length', file.length);
  res.write(file, 'binary');
  res.end();
});
```

But I can't get the file name and the file type ( or extension ). Can anyone help me with that?

```
javascript
            node.js
                       file
                              express
download
```

edited Nov 10 '17 at 7:20



**EASTHIKEYAN.A 3,897** 3 32 48

asked Sep 2 '11 at 20:18



Thiago Miranda de Oliveira

**1,560** 4 14 23

- Just FYI. For using in production, you are better off using node.js behind nginx, and make nginx handle static content. Apparently, it is much better suited for handling that. - Munim Apr 9 '13 at 8:14
- The un-votes prove that there is no

that. This question most certainly isn't one though. It matches the guidelines :) – Assimilater Sep 8 '16 at 2:08

Possible duplicate of How to download a file with Node.js (without using third-party libraries)? – Rinsha CP May 23 at 11:42

The question you point out is different, here OP want to return a file to a client while this other question is about how to download a file using your server Node as a client (e.g a file from a 3rd party). At lesast that's what I understood. – Eric Burel Jun 7 at 19:11

### 6 Answers

# **Update**

Express <u>has a helper</u> for this to make life easier.

```
app.get('/download', function(req,
  var file = __dirname + '/upload-
  res.download(file); // Set dispo:
});
```

## **Old Answer**

As far as your browser is concerned, the file's name is just 'download', so you need to give it more info by using another HTTP header.

```
res.setHeader('Content-disposition
```

You may also want to send a mimetype such as this:

```
res.setHeader('Content-type', 'vide
```

If you want something more in-depth, here ya go.

```
var path = require('path');
var mime = require('mime');
var fs = require('fs');
app.get('/download', function(req,
    var file = __dirname + '/upload-'
    var filename = path.basename(filevar mimetype = mime.lookup(file)
```

You can set the header value to whatever you like. In this case, I am using a mime-type library - nodemime, to check what the mime-type of the file is.

Another important thing to note here is that I have changed your code to use a readStream. This is a much better way to do things because using any method with 'Sync' in the name is frowned upon because node is meant to be asynchronous.

edited Oct 23 '17 at 0:40



holographix

**1,506** 2 21 3

answered Sep 2 '11 at 20:27



loganfsmyth

**95.4k** 16 201 173

1 Thanks.. Is there a way to get this information from the fs.readFileSync? I'm using a static file in this example but I'll use this download api for any files, passing the name of it. –

Thiago Miranda de Oliveira Sep 2
'11 at 20:33

No Problem! Glad to help. – loganfsmyth Sep 2 '11 at 23:31

- @EricH.
   expressjs.com/api.html#res.download
   loganfsmyth Mar 18 '13 at 22:57
- 1 @RJ. If you have a question, create a new one, don't leave a comment. – loganfsmyth Apr 25 '13 at 14:34
- 7 Express 4.x uses .set() instead of
  .setHeader() btw Dana Woodman Mar 17 '16 at 19:37

Use res.download()

It transfers the file at path as an "attachment". For instance:

```
var filePath = "/my/file/path/
param
var fileName = "report.pdf"; /,
    res.download(filePath, fileName);
```

 Read more about res.download()

answered Jul 24 '16 at 12:40



Jossef Harush 14.2k 4 51 67

What if the data was coming in from a HTTP request instead of a file and we had to let users download the file in a streaming way? – summerNight Sep 20 '17 at 15:37

@summerNight - well, that is a different case than the question specified. search for nodejs proxy file download response for best practice – Jossef Harush Sep 20 '17 at 17:13

For static files like pdfs, Word docs, etc. just use Express's static function in your config:

And then just put all your files inside that 'public' folder, for example:

```
/public/docs/my_word_doc.docx
```

And then a regular old link will allow the user to download it:

<a href="public/docs/my\_word\_doc.du

answered Oct 24 '14 at 16:47



That works well for assets (although a dedicated serving proxy like nginx is recommended). But for anything that requires secured access, the accepted method is better. Generally speaking for docs and files containing information. I wouldn't recommend

```
11 '15 at 16:07

1 e.g. this.use('/topsecret', mGetLoggedInUser, mEnsureAccess, express.static('topsecret'))
...and then each request goes through mEnsureAccess. Of course, that means you'll need to be able to figure out a user's access level just based on the url of the secure document, or whatever. – MalcolmOcean Dec 11 '15 at 16:09 

In Express 4.x, there is an attachment() method to Response:
```

```
In Express 4.x, there is an attachment() method to Response:

res.attachment();

// Content-Disposition: attachment

res.attachment('path/to/logo.png')

// Content-Disposition: attachment

// Content-Type: image/png

answered Jun 24 '16 at 10:15

Benoit Blanchon

7,084 2 38 44
```

```
'use strict';
var express = require('express');
var fs = require('fs');
var compress = require('compression
var bodyParser = require('body-pars
var app = express();
app.set('port', 9999);
app.use(bodyParser.json({ limit: ':
app.use(compress());
app.use(function (req, res, next) -
    req.setTimeout(3600000)
    res.header('Access-Control-All
    res.header('Access-Control-All
Content-Type, Accept, ' + Object.ke
    if (req.method === 'OPTIONS')
        res.write(':)');
        res.end();
    } else next();
});
function readApp(req,res) {
  var file = req.originalUrl == "/
      filePath = "/home/sony/Docume
  fs.exists(filePath, function(exis)
      if (exists) {
        res.writeHead(200, {
          "Content-Type": "applica
          "Content-Disposition": '
```

```
app.get('/read-android', function(
    var u = {"originalUrl":req.orig
    readApp(u,res)
});
app.get('/read-ios', function(req,
    var u = {"originalUrl":req.orig
    readApp(u,res)
});
var server = app.listen(app.get('p)
    console.log('Express server li:
}):
        answered Apr 14 '17 at 18:47
         WARTHIKEYAN.A
             3,897 3 32 48
Here's how I do it:
 1. create file
```

- 2. send file to client
- 3. remove file

#### Code:

```
let fs = require('fs');
let path = require('path');
let myController = (req, res) => {
  let filename = 'myFile.ext';
  let absPath = path.join(__dirnam
  let relPath = path.join('./my_fi')
root
  fs.writeFile(relPath, 'File cont
    if (err) {
      console.log(err);
    }
    res.download(absPath, (err) =>
      if (err) {
        console.log(err);
      }
      fs.unlink(relPath, (err) => ·
        if (err) {
          console.log(err);
        console.log('FILE [' + file
      });
    });
 });
};
```

answered Sep 25 '17 at 20:14



Thank you for your interest in this question. Because it has attracted low-quality or spam answers that had to be removed, posting an answer now requires 10 reputation on this site (the association bonus does not count).

Would you like to answer one of these unanswered questions instead?