

## How to optimize PDF from uploaded file (node for PDF optimization API in JavaScript with ByteScout Cloud API Server)

### How to optimize PDF from uploaded file (node for PDF optimization API in JavaScript: Step By Step Instructions)

The sample source codes on this page will show you how to create PDF optimization API in JavaScript. PDF optimization API in JavaScript can be applied with ByteScout Cloud API Server. ByteScout Cloud API Server is API server that is ready to use and can be installed and deployed in less than 30 minutes on your own Windows server or server in a cloud. It can save data and files on your local server-based file storage or in Amazon AWS S3 storage. Data is processed solely on the API server and is powered by ByteScout engine, no cloud services or Internet connection is required for data processing..

The SDK samples displayed below explain how to quickly make your application do PDF optimization API in JavaScript with the help of ByteScout Cloud API Server. This JavaScript sample code can be used by copying and pasting into your project. Once done, just compile your project and click Run. Check JavaScript sample code examples to see if they respond to your needs and requirements for the project.

Free! Free! Free! ByteScout free trial version is available for FREE download from our website. Programming tutorials along with source code samples are assembled.

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Source Code Files:

## OptimizePdfFromUploadedFile.js

```
/*jshint esversion: 6 */

// Please NOTE: In this sample we're assuming Cloud Api Server is hosted at "https://1
// If it's not then please replace this with with your hosting url.

var https = require("https");
var path = require("path");
var fs = require("fs");

// `request` module is required for file upload.
// Use "npm install request" command to install.
var request = require("request");

// Source PDF file
const SourceFile = "./sample.pdf";
// PDF document password. Leave empty for unprotected documents.
const Password = "";
// Destination PDF file name
const DestinationFile = "./result.pdf";

// 1. RETRIEVE PRESIGNED URL TO UPLOAD FILE.
getPresignedUrl(SourceFile)
.then(([uploadUrl, uploadedFileUrl]) => {
  // 2. UPLOAD THE FILE TO CLOUD.
  uploadFile(SourceFile, uploadUrl)
  .then(() => {
    // 3. OPTIMIZE UPLOADED PDF FILE
    optimizePdf(uploadedFileUrl, Password, DestinationFile);
  })
  .catch(e => {
    console.log(e);
  });
})
.catch(e => {
  console.log(e);
});

function getPresignedUrl(localFile) {
  return new Promise(resolve => {
    // Prepare request to `Get Presigned URL` API endpoint
    let queryPath = `/file/upload/get-presigned-url?contenttype=application/octet-
    let reqOptions = {
      host: "localhost",
      path: encodeURI(queryPath)
    };
    // Send request
    https.get(reqOptions, (response) => {
      response.on("data", (d) => {
        let data = JSON.parse(d);
        if (data.error == false) {
          // Return presigned url we received

```

```

        resolve([data.presignedUrl, data.url]);
    }
    else {
        // Service reported error
        console.log("getPresignedUrl(): " + data.message);
    }
    });
}
.on("error", (e) => {
    // Request error
    console.log("getPresignedUrl(): " + e);
});
});
}

function uploadFile(localFile, uploadUrl) {
    return new Promise(resolve => {
        fs.readFile(SourceFile, (err, data) => {
            request({
                method: "PUT",
                url: uploadUrl,
                body: data,
                headers: {
                    "Content-Type": "application/octet-stream"
                }
            }, (err, res, body) => {
                if (!err) {
                    resolve();
                }
                else {
                    console.log("uploadFile() request error: " + e);
                }
            });
        });
    });
}

function optimizePdf(uploadedFileUrl, password, destinationFile) {
    // Prepare request to `Optimize PDF` API endpoint
    var queryPath = `/pdf/optimize?name=${path.basename(destinationFile)}&password=${password}`;
    let reqOptions = {
        host: "localhost",
        path: encodeURI(queryPath),
        method: "GET"
    };
    // Send request
    https.get(reqOptions, (response) => {
        response.on("data", (d) => {
            response.setEncoding("utf8");
            // Parse JSON response
            let data = JSON.parse(d);
            if (data.error == false) {
                // Download PDF file
                var file = fs.createWriteStream(destinationFile);
                https.get(data.url, (response2) => {
                    response2.pipe(file)
                    .on("close", () => {
                        console.log(`Generated PDF file saved as "${destinationFile}"`);
                    });
                });
            }
        });
    });
}

```

```
        }
        else {
            // Service reported error
            console.log("readBarcodes(): " + data.message);
        }
    });
}
.on("error", (e) => {
    // Request error
    console.log("readBarcodes(): " + e);
});
}
```

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VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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