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## **PDF password and security in VB.NET and PDF.co Web API**

PDF.co Web API: the Web API with a set of tools for documents manipulation, data conversion, data extraction, splitting and merging of documents. Includes image recognition, built-in OCR, barcode generation and barcode decoders to decode bar codes from scans, pictures and pdf.

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## **Source Code Files:**

**ByteScoutWebApiExample.sln**



```

Microsoft Visual Studio Solution File, Format Version 12.00
# Visual Studio 15
VisualStudioVersion = 15.0.26730.10
MinimumVisualStudioVersion = 10.0.40219.1
Project("{F184B08F-C81C-45F6-A57F-5ABD9991F28F}") = "ByteScoutWebApiExample", "ByteScoutWebApiExample.vbproj"
EndProject
Global
    GlobalSection(SolutionConfigurationPlatforms) = preSolution
        Debug|Any CPU = Debug|Any CPU
        Release|Any CPU = Release|Any CPU
    EndGlobalSection
    GlobalSection(ProjectConfigurationPlatforms) = postSolution
        {9B91124C-66C3-4BD9-B29E-168C1ABB15AC}.Debug|Any CPU.ActiveCfg = Debug|Any CPU
        {9B91124C-66C3-4BD9-B29E-168C1ABB15AC}.Debug|Any CPU.Build.0 = Debug|Any CPU
        {9B91124C-66C3-4BD9-B29E-168C1ABB15AC}.Release|Any CPU.ActiveCfg = Release|Any CPU
        {9B91124C-66C3-4BD9-B29E-168C1ABB15AC}.Release|Any CPU.Build.0 = Release|Any CPU
    EndGlobalSection
    GlobalSection(SolutionProperties) = preSolution
        HideSolutionNode = FALSE
    EndGlobalSection
    GlobalSection(ExtensibilityGlobals) = postSolution
        SolutionGuid = {4576C9BB-A42D-46A8-9198-7E2982E122FA}
    EndGlobalSection
EndGlobal

```

## ByteScoutWebApiExample.vbproj

```

<?xml version="1.0" encoding="utf-8"?>
<Project ToolsVersion="15.0" xmlns="http://schemas.microsoft.com/developer/msbuild/2003" >
  <Import Project="$(MSBuildExtensionsPath)\$(MSBuildToolsVersion)\Microsoft.Common.props" >
    <PropertyGroup>
      <Configuration Condition="'$(Configuration)' == 'Debug'>Debug</Configuration>
      <Platform Condition="'$(Platform)' == 'AnyCPU'>AnyCPU</Platform>
      <ProjectGuid>{9B91124C-66C3-4BD9-B29E-168C1ABB15AC}</ProjectGuid>
      <OutputType>Exe</OutputType>
      <StartupObject>ByteScoutWebApiExample.Module1</StartupObject>
      <RootNamespace>ByteScoutWebApiExample</RootNamespace>
      <AssemblyName>ByteScoutWebApiExample</AssemblyName>
      <FileAlignment>512</FileAlignment>
      <MyType>Console</MyType>
      <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
    </PropertyGroup>
    <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
      <PlatformTarget>AnyCPU</PlatformTarget>
      <DebugSymbols>>true</DebugSymbols>
      <DebugType>full</DebugType>
      <DefineDebug>>true</DefineDebug>
      <DefineTrace>>true</DefineTrace>
      <OutputPath>bin\Debug\</OutputPath>
      <DocumentationFile>ByteScoutWebApiExample.xml</DocumentationFile>
    </PropertyGroup>
  </Project>

```

```

<NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
  <PlatformTarget>AnyCPU</PlatformTarget>
  <DebugType>pdbonly</DebugType>
  <DefineDebug>>false</DefineDebug>
  <DefineTrace>>true</DefineTrace>
  <Optimize>>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DocumentationFile>ByteScoutWebApiExample.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup>
  <OptionExplicit>On</OptionExplicit>
</PropertyGroup>
<PropertyGroup>
  <OptionCompare>Binary</OptionCompare>
</PropertyGroup>
<PropertyGroup>
  <OptionStrict>Off</OptionStrict>
</PropertyGroup>
<PropertyGroup>
  <OptionInfer>On</OptionInfer>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Newtonsoft.Json, Version=10.0.0.0, Culture=neutral, PublicKeyT
    <HintPath>packages\Newtonsoft.Json.10.0.3\lib\net40\Newtonsoft.Json.dll</HintPat
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Xml" />
  <Reference Include="System.Core" />
  <Reference Include="System.Xml.Linq" />
  <Reference Include="System.Data.DataSetExtensions" />
</ItemGroup>
<ItemGroup>
  <Import Include="Microsoft.VisualBasic" />
  <Import Include="System" />
  <Import Include="System.Collections" />
  <Import Include="System.Collections.Generic" />
  <Import Include="System.Data" />
  <Import Include="System.Diagnostics" />
  <Import Include="System.Linq" />
  <Import Include="System.Xml.Linq" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Module1.vb" />
</ItemGroup>
<ItemGroup>
  <None Include="packages.config" />
</ItemGroup>
  <Import Project="$(MSBuildToolsPath)\Microsoft.VisualBasic.targets" />
</Project>

```

## Module1.vb

```
Imports System.IO
Imports System.Net
Imports Newtonsoft.Json
Imports Newtonsoft.Json.Linq

Module Module1

    ' The authentication key (API Key).
    ' Get your own by registering at https://app.pdf.co/documentation/api
    Const API_KEY As String = "*****"

    ' Direct URL of source PDF file.
    Const SourceFileUrl As String = "https://bytescout-com.s3-us-west-2.amazonaws."

    ' Destination PDF file name
    Const DestinationFile As String = ".\result.pdf"

    ' Passwords to protect PDF document
    ' The owner password will be required for document modification.
    ' The user password only allows to view And print the document.
    Const OwnerPassword As String = "123456"
    Const UserPassword As String = "654321"

    ' Encryption algorithm.
    ' Valid values: "RC4_40bit", "RC4_128bit", "AES_128bit", "AES_256bit".
    Const EncryptionAlgorithm As String = "AES_128bit"

    ' Allow Or prohibit content extraction for accessibility needs.
    Const AllowAccessibilitySupport As Boolean = True

    ' Allow Or prohibit assembling the document.
    Const AllowAssemblyDocument As Boolean = True

    ' Allow Or prohibit printing PDF document.
    Const AllowPrintDocument As Boolean = True

    ' Allow Or prohibit filling of interactive form fields (including signature fi
    Const AllowFillForms As Boolean = True

    ' Allow Or prohibit modification of PDF document.
    Const AllowModifyDocument As Boolean = True

    ' Allow Or prohibit copying content from PDF document.
    Const AllowContentExtraction As Boolean = True

    ' Allow Or prohibit interacting with text annotations And forms in PDF documen
    Const AllowModifyAnnotations As Boolean = True

    ' Allowed printing quality.
    ' Valid values: "HighResolution", "LowResolution"
    Const PrintQuality As String = "HighResolution"

    Sub Main()
```

```

' Create standard .NET web client instance
Dim webClient As WebClient = New WebClient()

' Set API Key
webClient.Headers.Add("x-api-key", API_KEY)

' Set JSON content type
webClient.Headers.Add("Content-Type", "application/json")

' Prepare URL of "PDF Security" endpoint
Dim url As String = "https://api.pdf.co/v1/pdf/security/add"

' Prepare requests params as JSON
' See documentation: https : //apidocs.pdf.co
Dim parameters As New Dictionary(Of String, Object)
parameters.Add("name", Path.GetFileName(DestinationFile))
parameters.Add("url", SourceFileUrl)
parameters.Add("ownerPassword", OwnerPassword)
parameters.Add("userPassword", UserPassword)
parameters.Add("encryptionAlgorithm", EncryptionAlgorithm)
parameters.Add("allowAccessibilitySupport", AllowAccessibilitySupport)
parameters.Add("allowAssemblyDocument", AllowAssemblyDocument)
parameters.Add("allowPrintDocument", AllowPrintDocument)
parameters.Add("allowFillForms", AllowFillForms)
parameters.Add("allowModifyDocument", AllowModifyDocument)
parameters.Add("allowContentExtraction", AllowContentExtraction)
parameters.Add("allowModifyAnnotations", AllowModifyAnnotations)
parameters.Add("printQuality", PrintQuality)

' Convert dictionary of params to JSON
Dim jsonPayload As String = JsonConvert.SerializeObject(parameters)

Try
    ' Execute POST request with JSON payload
    Dim response As String = webClient.UploadString(url, jsonPayload)

    ' Parse JSON response
    Dim json As JObject = JObject.Parse(response)

    If json("error").ToObject(Of Boolean) = False Then

        ' Get URL of generated PDF file
        Dim resultFileUrl As String = json("url").ToString()

        ' Download PDF file
        webClient.DownloadFile(resultFileUrl, DestinationFile)

        Console.WriteLine("Generated PDF file saved as ""{0}""")

    Else
        Console.WriteLine(json("message").ToString())
    End If

Catch ex As WebException
    Console.WriteLine(ex.ToString())
End Try

webClient.Dispose()

```

```
Console.WriteLine()  
Console.WriteLine("Press any key...")  
Console.ReadKey()
```

```
End Sub
```

```
End Module
```

## packages.config

```
<?xml version="1.0" encoding="utf-8"?>  
<packages>  
  <package id="Newtonsoft.Json" version="10.0.3" targetFramework="net40" />  
</packages>
```

---

## VIDEO

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

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