

## How to merge PDF documents from urls asynchronously for PDF merging API in VB.NET and ByteScout Cloud API Server

Follow this simple tutorial to learn merge PDF documents from urls asynchronously to have PDF merging API in VB.NET

These simple tutorials explain the code material for beginners and advanced programmers who are using VB.NET. PDF merging API in VB.NET 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..

If you want to speed up the application's code writing then VB.NET code samples for VB.NET developers help to implement using ByteScout Cloud API Server. This VB.NET sample code can be used by copying and pasting into your project. Once done, just compile your project and click Run. Writing VB.NET application mostly includes various stages of the software development so even if the functionality works please check it with your data and the production environment.

ByteScout Cloud API Server - free trial version is available on our website. Also, there are other code samples to help you with your VB.NET application included into trial version.

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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.csproj", "{F184B08F-C81C-45F6-A57F-5ABD9991F28F}"
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
```

## Module1.vb

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

' Please NOTE: In this sample we're assuming Cloud Api Server is hosted at "https://localhost:5000/"
' If it's not then please replace this with your hosting url.

' Cloud API asynchronous "Merge PDF" job example.
' Allows to avoid timeout errors when processing huge or scanned PDF documents.
Module Module1

    ' Direct URLs of PDF files to merge
    Dim SourceFiles As String() = {
        "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-api/pdf-merge.pdf",
        "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-api/pdf-merge.pdf"
    }

    ' Merge PDF files
    Public Async Function MergePDF() As Task<String>
        Dim client As New HttpClient()
        Dim request As New HttpRequestMessage(HttpMethod.Post, "https://localhost:5000/api/pdf-merge")
        Dim json As JObject = JObject.FromObject(New With {
            .SourceFiles = SourceFiles,
            .OutputFile = "merged.pdf"
        })
        request.Content = new StringContent(json.ToString(), Encoding.UTF8, "application/json")
        Dim response As HttpResponseMessage = await client.SendAsync(request)
        Dim result As String = response.Content.ReadAsStringAsync().Result
        Return result
    End Function

    ' Main method
    Public Async Function Main() As Task
        Dim result As String = await MergePDF()
        Console.WriteLine(result)
    End Function

End Module
```

```

        "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-api/pdf
    ' Destination PDF file name
    Const DestinationFile As String = ".\result.pdf"
    ' (!) Make asynchronous job
    Const Async As Boolean = True

Sub Main()

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

    ' Prepare URL for `Merge PDF` API call
    Dim query As String = Uri.EscapeUriString(String.Format(
        "https://localhost/pdf/merge?name={0}&url={1}&async={2}",
        Path.GetFileName(DestinationFile),
        String.Join(",", SourceFiles),
        Async))

Try
    ' Execute request
    Dim response As String = webClient.DownloadString(query)

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

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

        ' Asynchronous job ID
        Dim jobId As String = json("jobId").ToString()
        ' URL of generated PDF file that will be available after
        Dim resultFileUrl As String = json("url").ToString()

        ' Check the job status in a loop.
        ' If you don't want to pause the main thread you can re
        ' to use a separate thread for the status checking and
        Do
            Dim status As String = CheckJobStatus(jobId)

            ' Display timestamp and status (for demo purposes)
            Console.WriteLine(DateTime.Now.ToString("dd/MM/yyyy HH:mm:ss"), status)

            If status = "success" Then

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

                Console.WriteLine("Generated PDF file saved to " & DestinationFile)
                Exit Do

            ElseIf status = "working" Then

                ' Pause for a few seconds
                Thread.Sleep(3000)

            Else

                Console.WriteLine(status)
                Exit Do
            End If
        Loop While status <> "success"
    End If
End Try

```

```

        End If

        Loop

    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

Function CheckJobStatus(jobId As String) As String

    Using webClient As WebClient = New WebClient()

        Dim url As String = "https://localhost/job/check?jobid=" + jobId

        Dim response As String = webClient.DownloadString(url)
        Dim json As JObject = JObject.Parse(response)

        return Convert.ToString(json("status"))

    End Using

End Function

End Module

```

packages.config

```

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

```

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## VIDEO

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

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