

Hello Horacio,

It was a pleasure to speak with you yesterday.

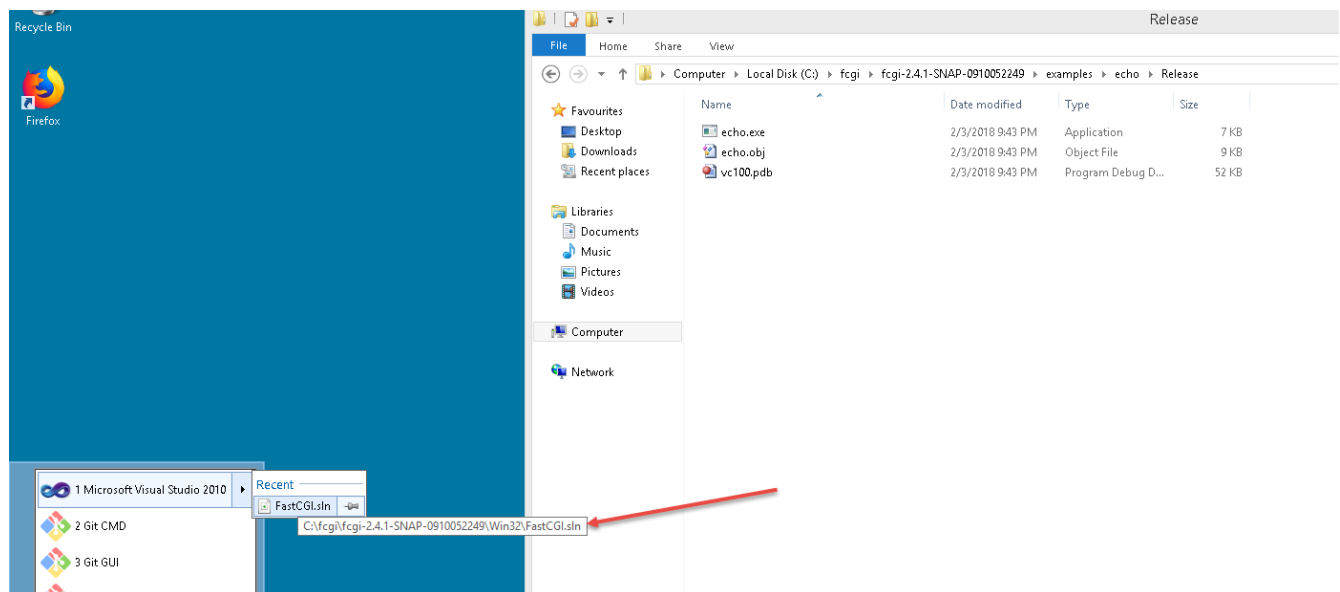
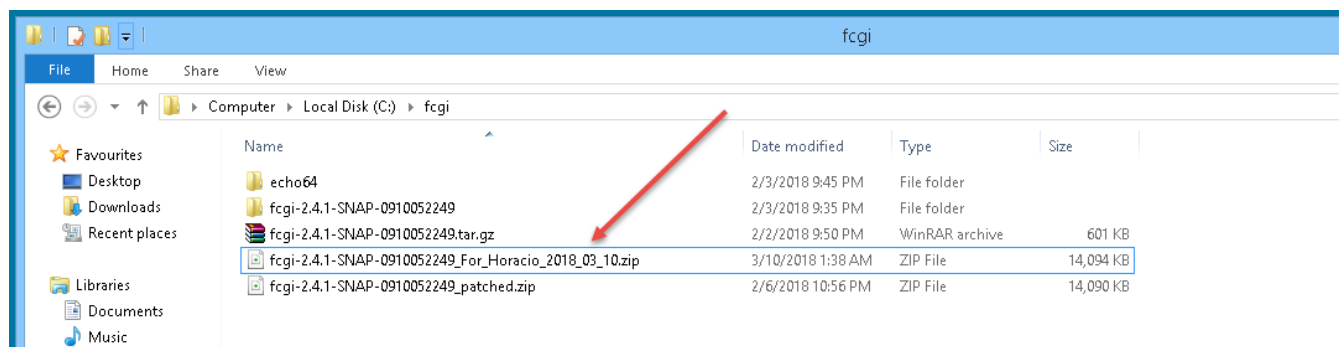
Here are some instructions for testing and developing the FastCGI interface.

The original specs came from <https://fastcgi-archives.github.io/>

I created a zip of a patched version of the samples.

See fcgi-2.4.1-SNAP-0910052249\_For\_Horacio\_2018\_03\_10.zip

I had created the code on one of my VMs on Windows 8 Enterprise, with Visual Studio 2010.



To test the Echo program, which I build with C, not C++, you can do the following steps:

Under Windows IIS, the way you enable FastCGI, is by installing CGI

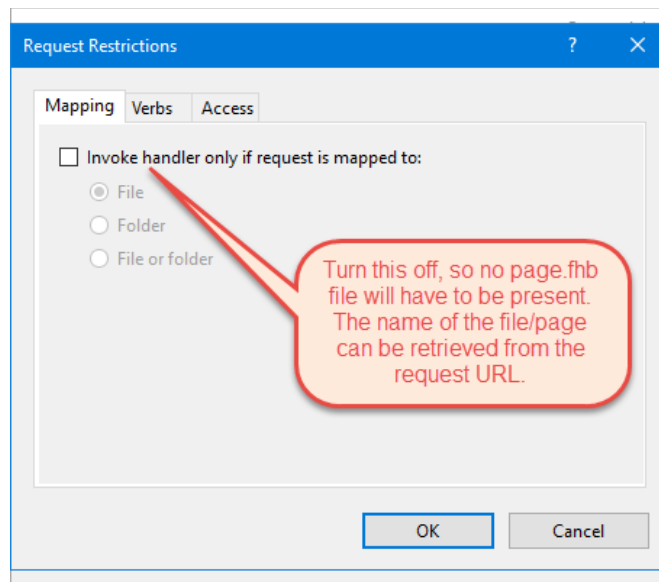
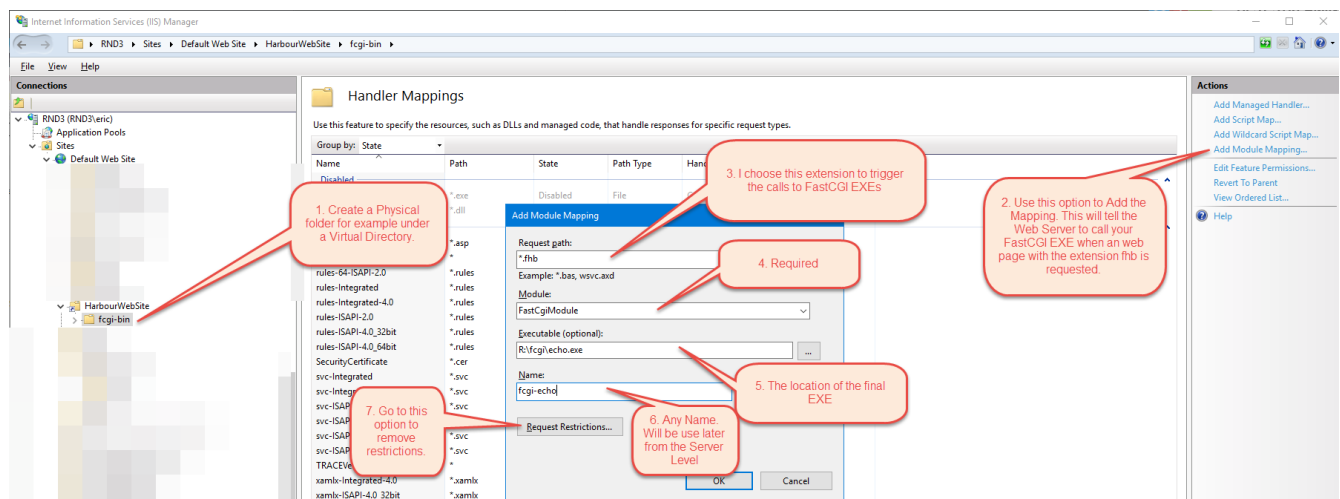
You can look at the following link for some instructions. These will work, even though they were created to create PHP FastCGI apps.

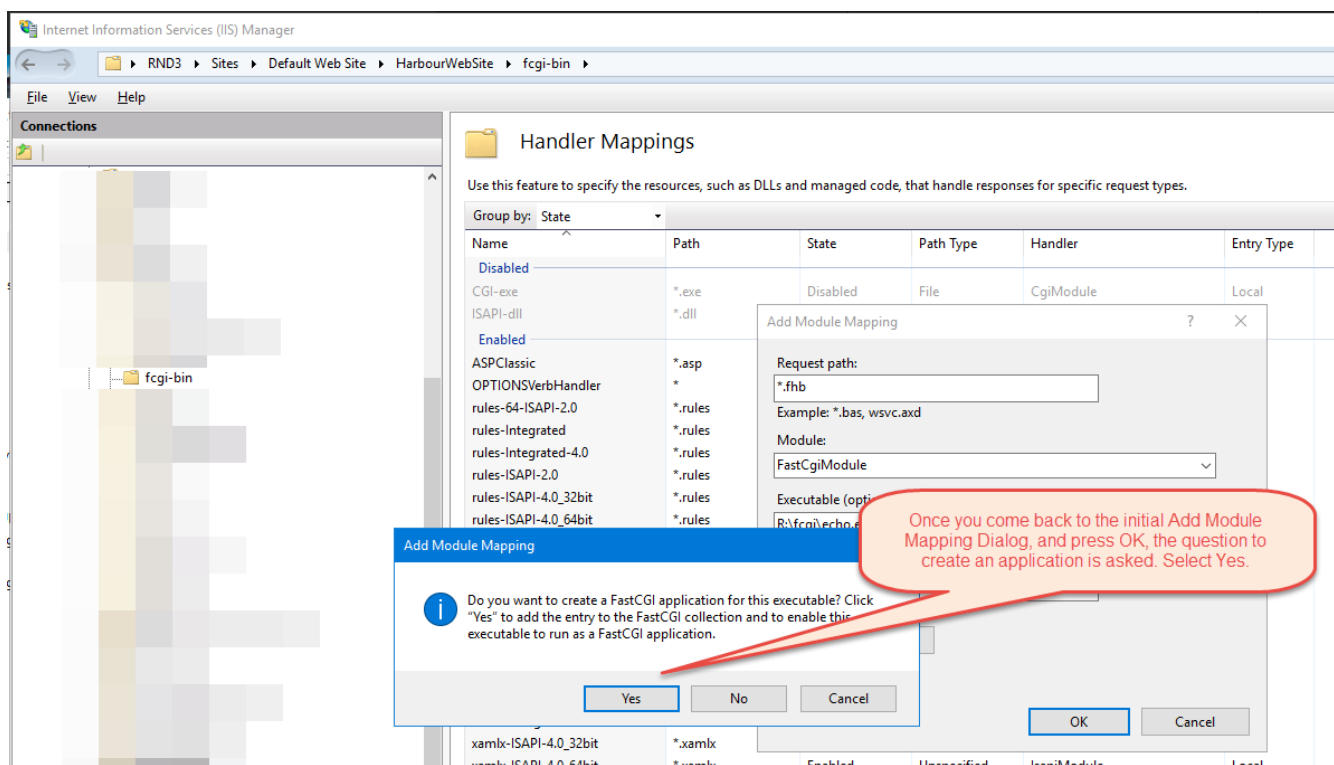
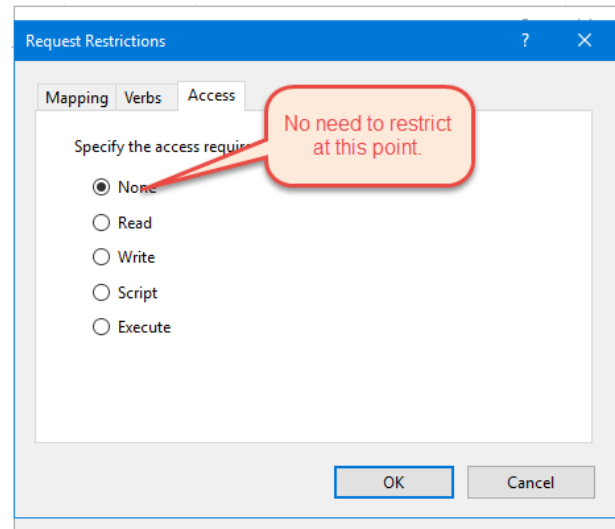
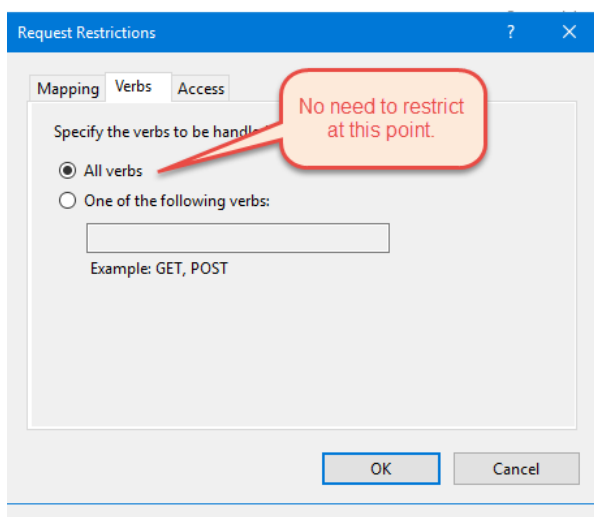
<https://github.com/nZEDb/nZEDb/wiki/Windows-IIS-with-FastCGI>

Also for testing purposes I use Postman.

You can download it via <https://app.getpostman.com/app/download/win64>

The following are some print screens of my settings. This is under Windows 10 Pro.





Internet Information Services (IIS) Manager

Connections

RND3 (RND3\eric)

Application Pools

Sites

Default Web Site

HarbourWebSite

fcgi-bin

### Handler Mappings

Use this feature to specify the resources, such as DLLs and managed code, that handle responses for specific request types.

Name	Path	State	Path Type	Handler	Entry Type
<b>Disabled</b>					
CGI-exe	*.exe	Disabled	File	CgiModule	Local
ISAPI-dll	*.dll	Disabled	File	IsapiModule	Local
<b>Enabled</b>					
ASPClassic	*.asp	Enabled	File	IsapiModule	Local
OPTIONSVerbHandler	*	Enabled	Unspecified	ProtocolSupportModule	Local
rules-64-ISAPI-2.0	*.rules	Enabled	Unspecified	IsapiModule	Local
rules-Integrated	*.rules	Enabled	Unspecified	System.ServiceModel.Activati...	Local
rules-Integrated-4.0	*.rules	Enabled	Unspecified	System.ServiceModel.Activati...	Local
rules-ISAPI-2.0	*.rules	Enabled	Unspecified	IsapiModule	Local
rules-ISAPI-4.0_32bit	*.rules	Enabled	Unspecified	IsapiModule	Local
rules-ISAPI-4.0_64bit	*.rules	Enabled	Unspecified	IsapiModule	Local
SecurityCertificate	*.cer	Enabled	File	IsapiModule	Local
StaticFile	*	Enabled	File or Folder	StaticFileModule,DefaultDocu...	Local
svc-Integrated	*.svc	Enabled	Unspecified	System.ServiceModel.Activati...	Local
svc-Integrated-4.0	*.svc	Enabled	Unspecified	System.ServiceModel.Activati...	Local
svc-ISAPI-2.0	*.svc	Enabled	Unspecified	IsapiModule	Local
svc-ISAPI-2.0-64	*.svc	Enabled	Unspecified	IsapiModule	Local
svc-ISAPI-4.0_32bit	*.svc	Enabled	Unspecified	IsapiModule	Local
svc-ISAPI-4.0_64bit	*.svc	Enabled	Unspecified	IsapiModule	Local
TRACEVerbHandler	*	Enabled	Unspecified	ProtocolSupportModule	Local
xamlx-Integrated-4.0	*	Enabled	Unspecified	System.Xaml.Hosting.XamlHt...	Local
xamlx-ISAPI-4.0_32bit	*	Enabled	Unspecified	IsapiModule	Local
xamlx-ISAPI-4.0_64bit	*	Enabled	Unspecified	IsapiModule	Local
xoml-64-ISAPI-2.0	*.xoml	Enabled	Unspecified	IsapiModule	Local
xoml-Integrated	*.xoml	Enabled	Unspecified	System.ServiceModel.Activati...	Local
xoml-Integrated-4.0	*.xoml	Enabled	Unspecified	System.ServiceModel.Activati...	Local
xoml-ISAPI-2.0	*.xoml	Enabled	Unspecified	IsapiModule	Local
xoml-ISAPI-4.0_32bit	*.xoml	Enabled	Unspecified	IsapiModule	Local
xoml-ISAPI-4.0_64bit	*.xoml	Enabled	Unspecified	IsapiModule	Local
fcgi-echo	*.fcb	Enabled	Unspecified	FastCgiModule	Local

The new entry will be added to the bottom of the list. But as soon as you press F5 the entry will be placed alphabetically

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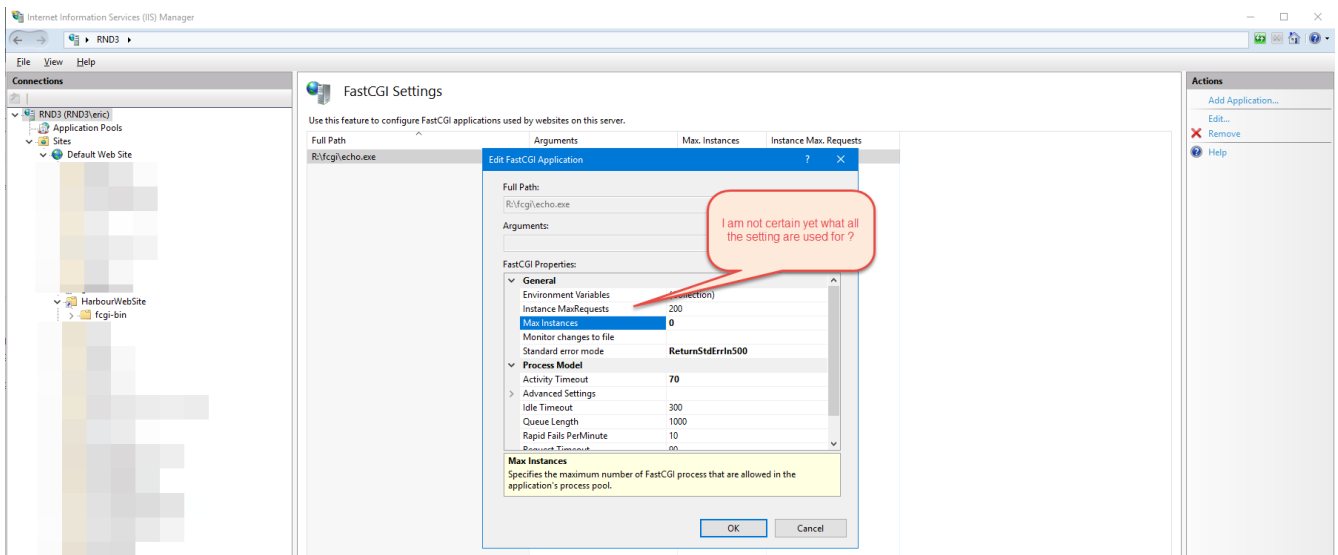
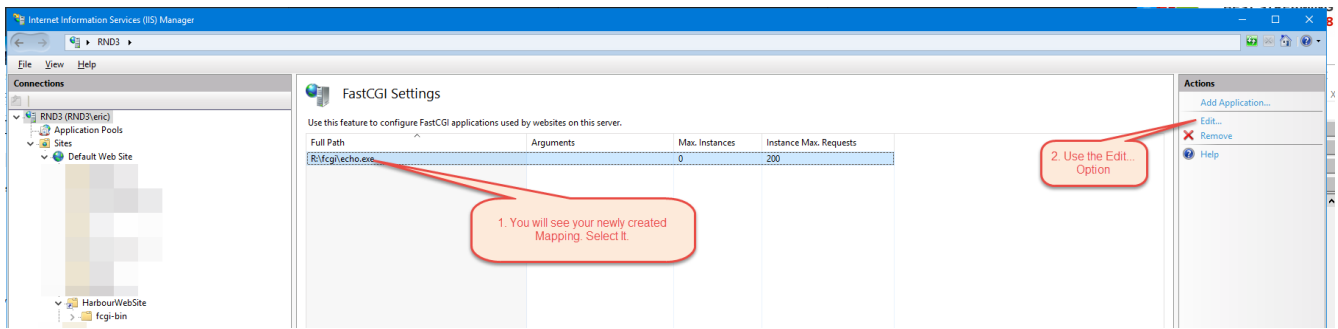
### RND3 Home

Filter: Show All Group by: Area

Feature Name	Description
IIS	
ASP	Configure properties for ASP applications
Authentication	Configure authentication settings for sites and applications
CGI	Configure properties for CGI programs
Default Document	Configure default files to return when clients do not specify a file in a request
Directory Browsing	Configure information to display in a directory listing
Error Pages	Configure pages to return when errors occur
FastCGI Settings	Configure FastCGI process application pools
Handler Mappings	Specify resources that handle responses for specific request types
HTTP Response Headers	Configure HTTP headers that are added to responses from the Web server
ISAPI and CGI Restrictions	Restrict or enable specific ISAPI and CGI extensions on the Web server
MIME Types	Configure extensions and associated content types that are served as static files
Modules	Configure native and managed code modules that process requests on the Web ...
Output Caching	Specify rules for caching served content in the output cache
Request Filtering	Use this feature to configure filtering rules
Server Certificates	Request and manage certificates for websites that use SSL
Worker Processes	View information about worker processes and about currently executing requests...
Management	
Configuration Editor	Provides a generic Configuration Editor
Feature Delegation	Configure the default delegation state for features at lower levels in IIS Manager
Shared Configuration	Turn on or off shared configuration

1. Select the machine.

2. Select the FastCGI Settings



Postman

File Edit View Collection History Help

New Import Runner

Builder Team Library

Filter

History Collections

Clear all

Today

POST http://rnd.sdol.us/harbourwebsite/fcgi-bin/test3.fhb?debug=on&test1=12345

POST http://rnd.sdol.us/harbourwebsite/fcgi-bin/test3.fhb?debug=on&test1=12345

POST

Key Value Description

debug on

test1 12345

New key Value Description

Authorization Headers (1) Body Pre-request Script Tests Cookies Code

form-data x-www-form-urlencoded raw binary

Key Value Description

test2 5678

New key Value Description

Body Cookies Headers (4) Test Results

Status: 200 OK Time: 704 ms Size: 4.35 KB

Pretty Raw Preview HTML

```
40 CERT_SERIALNUMBER=
41 CERT_SUBJECT=
42 CONTENT_LENGTH=164
43 CONTENT_TYPE=application/x-www-form-urlencoded; boundary=-----037887847079400274858587
44 DOCUMENT_ROOT=/usr/local/apache2/htdocs/
45 GATEWAY_INTERFACE=CGI/1.1
46 HTTPS=off
47 HTTPS_KEYSIZE=
48 HTTPS_SECRETKEYSIZE=
49 HTTPS_SERVER_ISSUER=
50 HTTPS_SERVER_SUBJECT=
51 INSTANCE_ID=1
52 INSTANCE_NAME=DEFAULT WEB SITE
53 INSTANCE_META_PATH=/LM/W3SVC/1
54 LOCAL_ADDR=192.168.76.1
55 LOGON_USER=
56 PATH_INFO=/harbourwebsite/fcgi-bin/test3.fhb
57 PATH_TRANSLATED=R:\waf\HarbourWebSite\fcgi-bin\test3.fhb
58 QUERY_STRING=debug=on&test1=12345
59 REMOTE_ADDR=192.168.76.128
60 REMOTE_HOST=192.168.76.128
61 REMOTE_PORT=55639
62 REMOTE_USER=
63 REQUEST_METHOD=POST
64 REQUEST_URI=/harbourwebsite/fcgi-bin/test3.fhb?debug=on&test1=12345
65 SCRIPT_FILENAME=R:\waf\HarbourWebSite\fcgi-bin\test3.fhb
66 SCRIPT_NAME=/harbourwebsite/fcgi-bin/test3.fhb
67 SERVER_NAME=rnd.sdol.us
68 SERVER_PORT=80
69 SERVER_PORT_SECURE=0
70 SERVER_PROTOCOL=HTTP/1.1
71 SERVER_SOFTWARE=Microsoft-IIS/10.0
72 URL=/harbourwebsite/fcgi-bin/test3.fhb
73 </pre>
74 <p>
75 Initial environment:
76 <br>
77 <pre>
78 _FCGI_X_PIPE_=\.\pipe\IISFCGI-1fb13660-534d-417d-8878-885b14894667
```

Query parameters

URL called, so we could extract the page name.