

# GJax Installation Procedure

## From Intranet

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## gJax Installation Procedure

This procedure describes how to install gJax for development on a Cache system using serverLink and IIS.

### Unpack gJax\_3.1.x.zip

This file contains the gJax software, templates and script files. Extract the contents of the file into c:\program files\george james software\gjax\xxx where xxx is an identifier that distinguishes multiple instances of gJax if you ever need to install more than one instance.

### Install Key File

Copy the key file named vcm.key into the directory where you installed gJax, c:\program files\george james software\gjax\xxx.

### Create gJax Namespace

Create a namespace called xxx-GJAX, where xxx is a prefix that describes the instance of gJax (you may want to install several instances of gJax over time).

Create the following namespace mappings:

- Map %vc\* routines to xxx-GJAX
- Map %vc\* globals to xxx-GJAX

## Create Application Namespaces

Create a namespace that will contain the application. For this namespace add the following mappings:

- Map %vc\* routines to xxx-GJAX
- Map %vc\* globals to xxx-GJAX
- Map routine mgwms32 to xxx-GJAX
- Map routine http to xxx-GJAX

### serverLink

If you plan to use server link then you will need to create an additional namespace that will contain the public interface to your application. This enhances security by ensuring that only methods in the public namespace can be run directly. This namespace is conventionally named zzz-PUBLIC where zzz is the name of your application namespace.

For this namespace add the following mappings:

- Map %vc\* routines to xxx-GJAX
- Map %vc\* globals to xxx-GJAX
- Map routine serverLink to xxx-GJAX
- Map routine default to xxx-GJAX

### CSP

TODO

### WebLink

TODO

## Install gJax software

Switch to namespace xxx-GJAX and install the gJax software:

```

USER>zn "xxx-GJAX"

xxx-GJAX>d ^%RI

Input routines from Sequential
Device: c:\program files\george james software\gjax\xxx\vcn.rsa Parameters: "R"=>

File written by George James Software Limited using gJax (%RO format)
with extension INT and with description: gJax

( All Select Enter List Quit )

Routine Input Option: all Routines

If a selected routine has the same name as one already on file,
shall it replace the one on file? No => Yes
Recompile? Yes => Yes
Display Syntax Errors? Yes => No

^ indicates routines which will replace those now on file.
@ indicates routines which have been [re]compiled.
- indicates routines which have not been filed.

"
xxx-GJAX>

```

## Then run the gJax installation script

```
xxx-GJAX>d gJax^%vcins
```

```

gJax - Version 3.1
The Force of Change
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For support call +44-1932-252568
or e-mail support@georgejames.com

What type of database server are you running?
1 InterSystems Caché, Ensemble
2 InterSystems MSM
3 InterSystems DSM for OpenVMS
4 Fidelity GT.M
5 M21 Limited M21
Database server (1-5)? <1>
What type of Operating System are you running?
1 Windows 2000/2003/XP/Vista
2 OpenVMS
3 UNIX, Linux
Operating System (1-3)? <1>
gJax - installing Caché drivers .....
gJax - Enter the directory specification of the location where gJax has been
installed <C:\Program Files\George James Software\gJax\xxx> C:\Program Files\George James Software\gJax\xxx
gJax - License key file is C:\Program Files\George James Software\gJax\xxx\vcn.key
gJax - Enable CSP web-access to gJax? <N>
gJax - Enable WebLink web-access to gJax? <N>
gJax - Enable serverLink web-access to gJax? <Y>
gJax - Installing menu and help data...

gJax - Installation complete
xxx-GJAX>

```

## Configure gJax for your Application

The following settings customise the main gJax screen and enable you to create a branding for your user interface:

### Custom Toolbar

```
xxx-GJAX>s ^%vcvc("toolbar")="../xxxToolbar.xml"
```

```
xxx-GJAX>S ^%vcvc("divSelect")="label^routine" ; Deprecated
```

## Custom Welcome Screen

```
xxx-GJAX>S ^%vcvc("welcome")=" ../myWelcome.htm"
```

## Custom Style Sheet

```
xxx-GJAX>S ^%vcvc("cssFile")=" ../css/myStyles.css"
```

## Password Encryption

```
xxx-GJAX>s ^%vcvc("passwordEncryption")="label^routine"
```

## Setup serverLink

If you are using serverLink then perform the following steps:

### Configure Pass-Phrase

Switch to the PUBLIC namespace to setup serverLink

```
xxx-PUBLIC>d setup^serverLink
Configure authenticated web-servers
Pass-phrase? enter a security pass phrase of between 10 and 50 characters
Web-server description? enter the url that will be used to launch the application, eg http://myServer/xxx/gjax/i
Pass-phrase?
xxx-PUBLIC>
```

### Set backend redirector

```
xxx-PUBLIC>S ^%vcvc("serverLinkBackend")="xxx"
```

### Edit ZSTU in %SYS to start serverLink listener

Choose a free port (see what the existing serverLink is using, and maybe add 10). Add this line to ZSTU (e.g. if port is 6520)

```
N $ET S $ET="D $ZU(9,"""", ""ZSTU error: ""_$ZE) S $EC="""
J start^serverLink(6520,0) | "xxx-PUBLIC" |
```

Restart Cache and run %SS to check that the serverLink process is running in xxx-PUBLIC and listening on port 6520.

## Configure Web-server

### Copy gjax directory from Database Server to Web Server

If the web-server is on a different machine from the database server then you will need to copy the gJax directory from the database server to the web server.

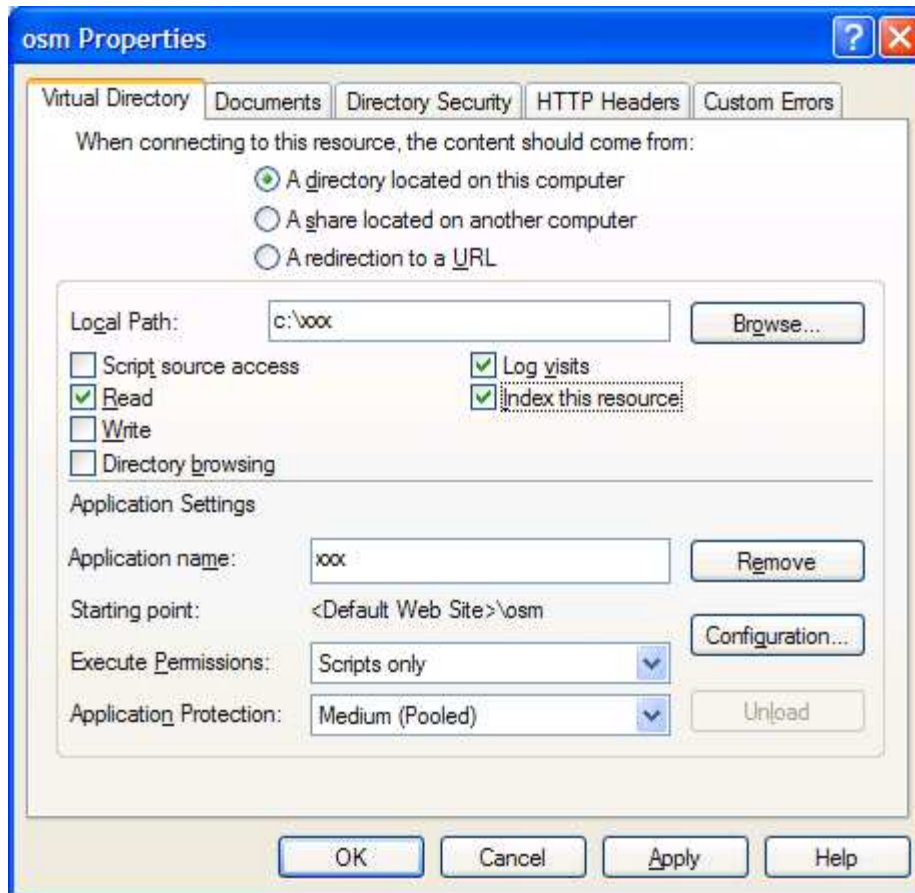
Copy c:\program files\george james software\gjax\xxx\ and all its subdirectories to the same location on the web-server.

## Create and publish an application directory

Create a directory on the web-server that will contain your application's javascript and template files. You should create an images sub-directory for any images your application might contain.

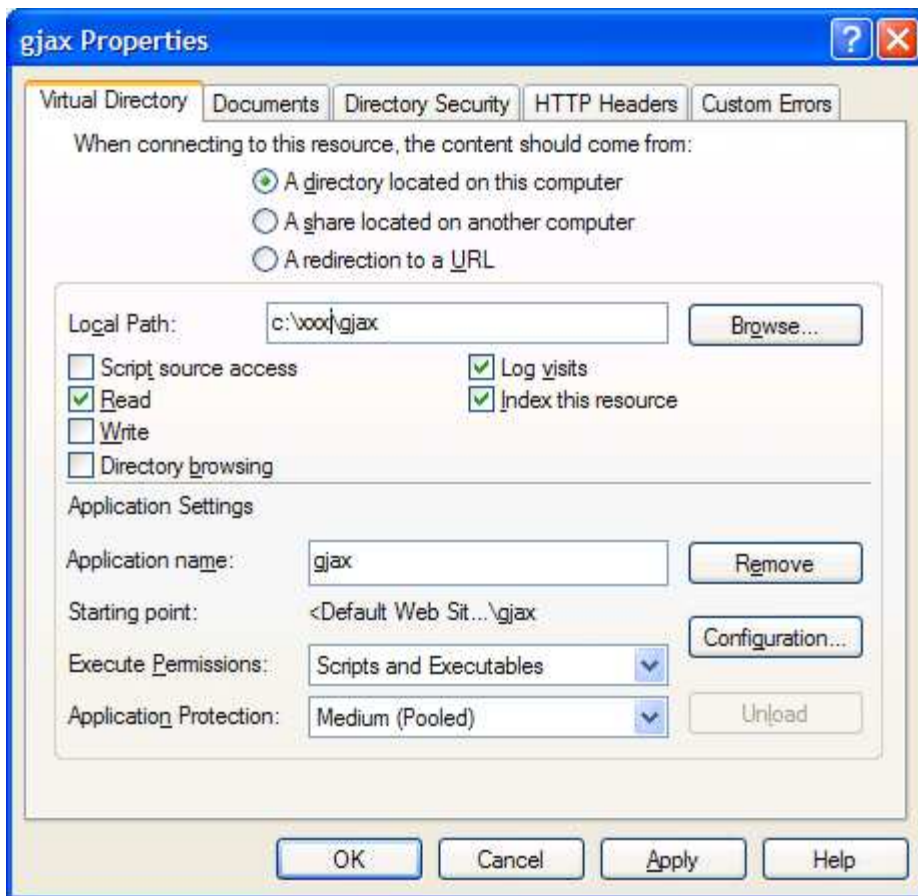
```
c:\>mkdir "c:\xxx"  
c:\>mkdir "c:\xxx\images"
```

Publish this directory as /xxx by defining it as a virtual directory in IIS.



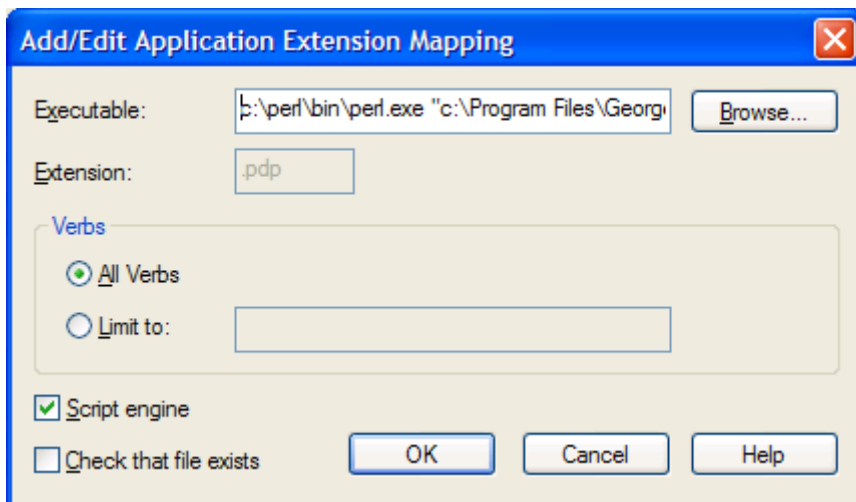
## Create a gJax virtual directory

Create another virtual dir underneath /xxx, called gjax. This should be mapped to c:\program files\george james software\gjax\xxx\



## Add script mapping for .pdp

Click the Configuration button for the gjax virtual directory, add a .pdp mapping:



In the Executable field enter the following:

```
c:\perl\bin\perl.exe "c:\program files\george james software\gjax\xxx\serverLink.cgi" "CacheServerNameOrIP:6520:"
```

The port number should be the same one that ZSTU uses to start the serverLink process in xxx-PUBLIC.

## Clear the "Check file exists box"

It is important to remember to clear this check box. Nothing works if you forget this.

## Test access from IE

After all the other steps have been completed:

<http://webserver/cwasp/gjax/cwasp.cwa>

Username and password should be any valid ClearWater account. The site name is specified as a prefix to the username like this: CHT/cgrub1

7.7 Set Browser Interface Title Setup\Properties\Browser Interface to set new title. Reload browser.

Retrieved from "[http://10.101.68.18/intranet/index.php/GJax\\_Installation\\_Procedure](http://10.101.68.18/intranet/index.php/GJax_Installation_Procedure)"

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