



# FoxInCloud

A-Z tutorial, Session 4

*Requires FAA & FAS V2.0+*

# Session 4

## Deploying for production

Completing this section requires a full [FoxInCloud](#), West-Wind Web Connect, and ActiveWidgets license.

For more information about these licenses, please browse <http://foxincloud.com/pricing.php>, and/or contact [sales@foxincloud.com](mailto:sales@foxincloud.com)

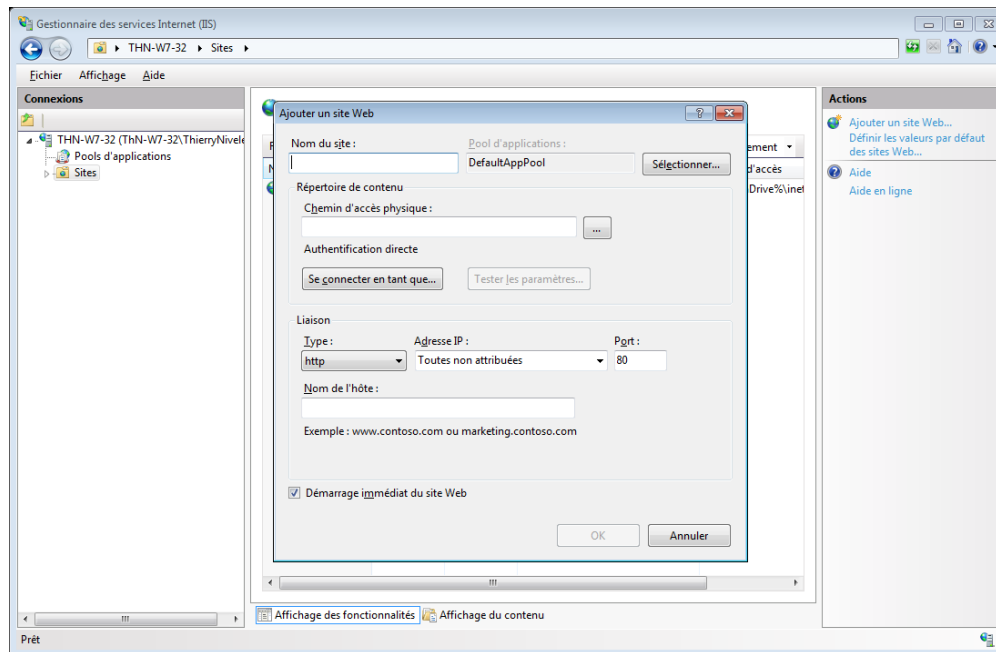
# Deploying for production, Agenda



Episode	Subject	Slides
1	Creating your Web App Site	14
2	Creating your Web Application	9
3	Linking Web App Site and Web Application	12
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# Session 4, episode 1

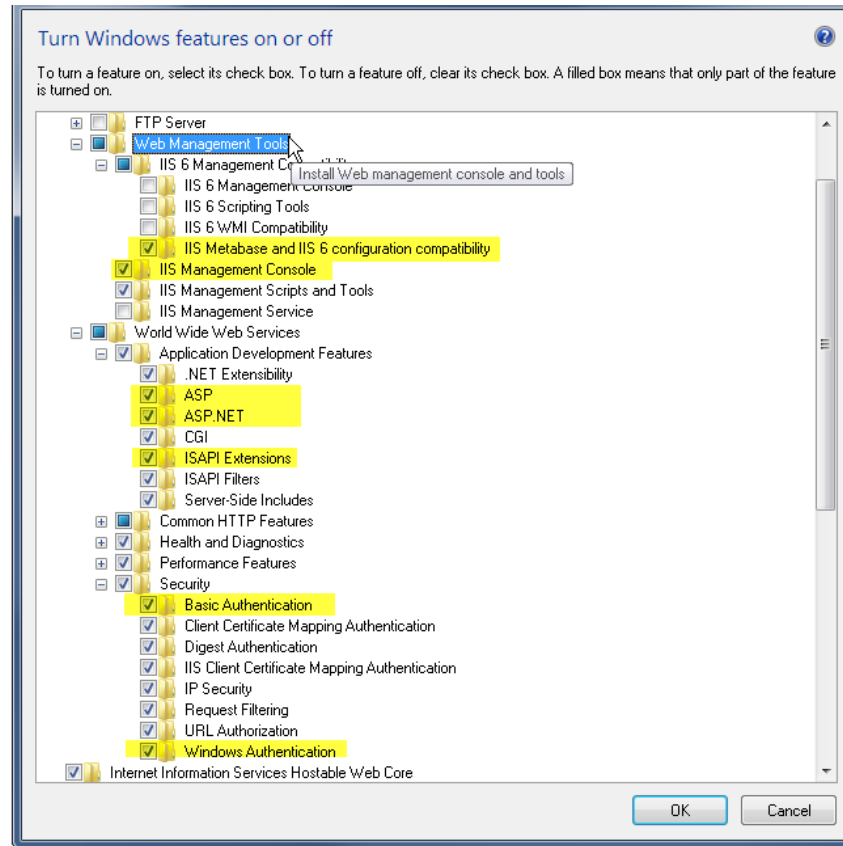
## Creating your Web App. Site





# If your server runs IIS $\geq 7$ , check your IIS installation

If your production server runs IIS 7+ (Windows server 2008+), check your IIS installation as you previously did in FAA step 3-publish.



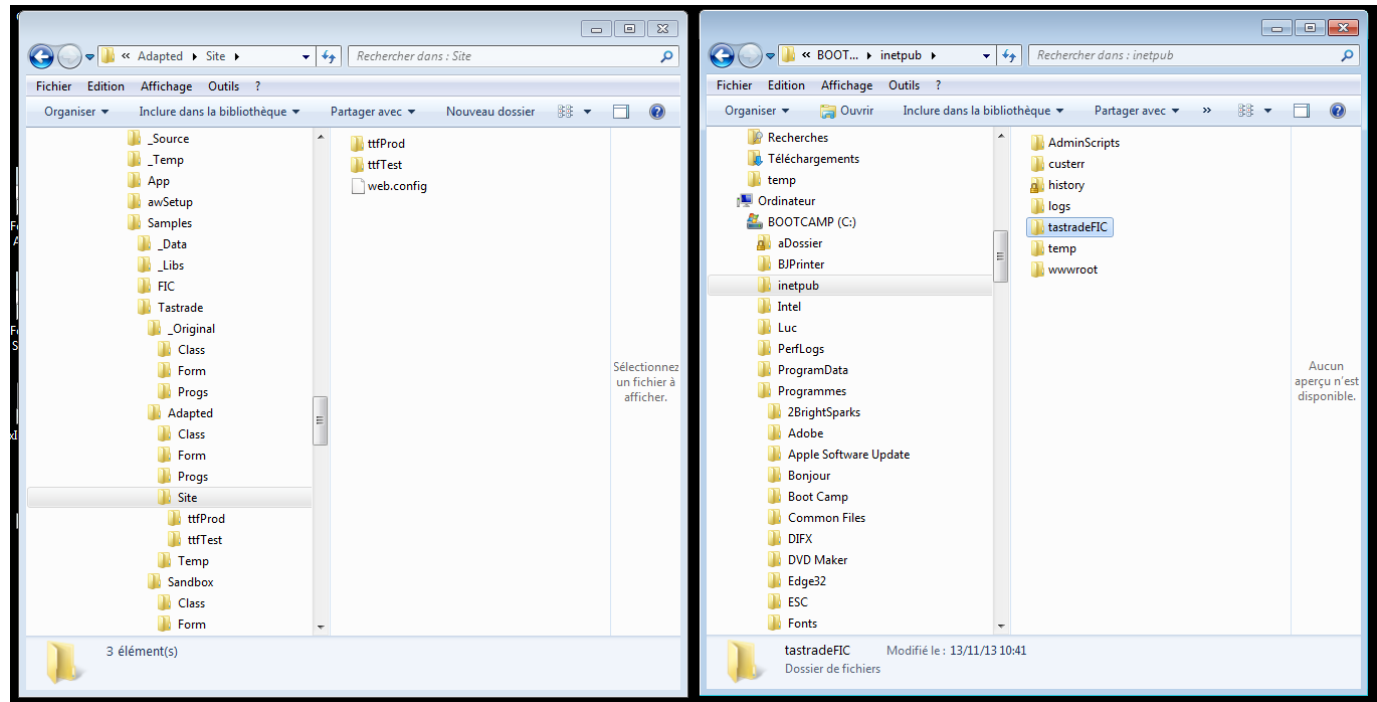
The figure above highlights the critical components that are used by Web Connection and are absolutely required.



# Copy site files from dev machine to prod. Server

Source files are in your project's `site\` folder.

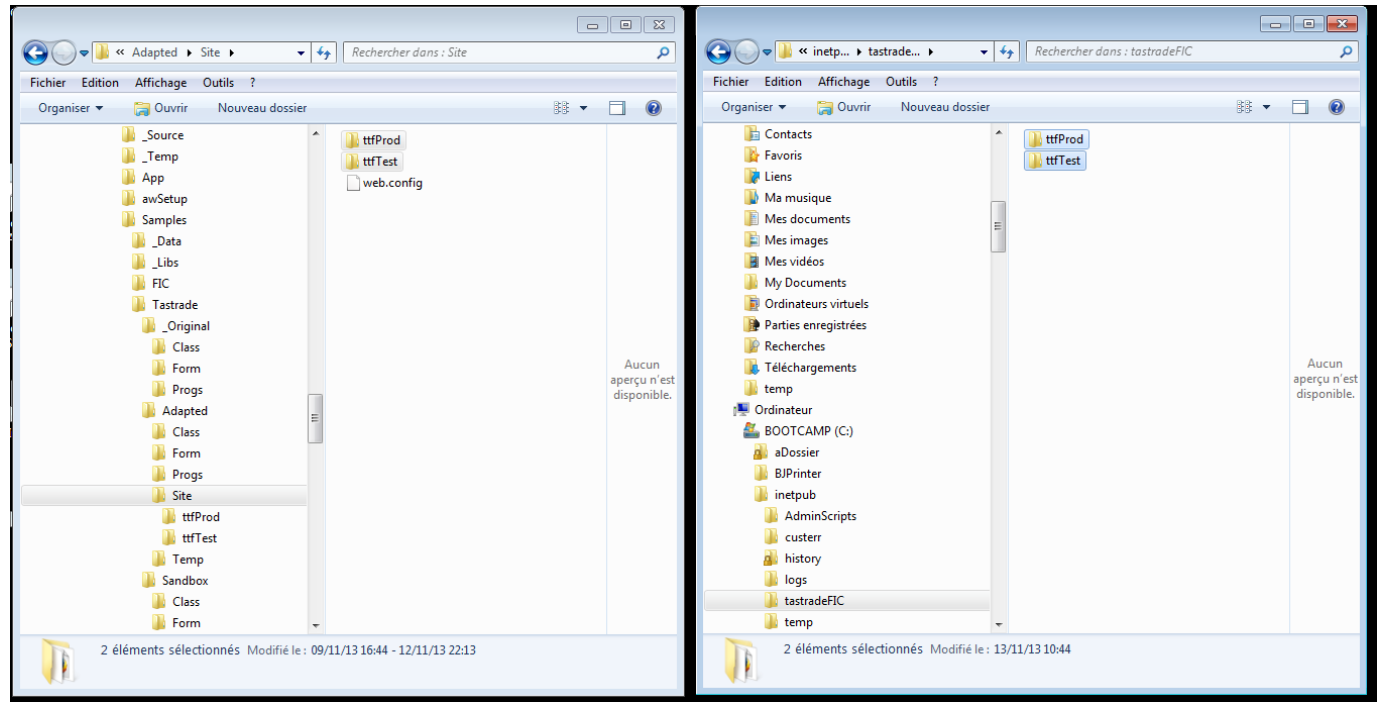
Create a new sub-folder in `inetpub\` and copy your files there.





# 1 site for tests 1 site for production

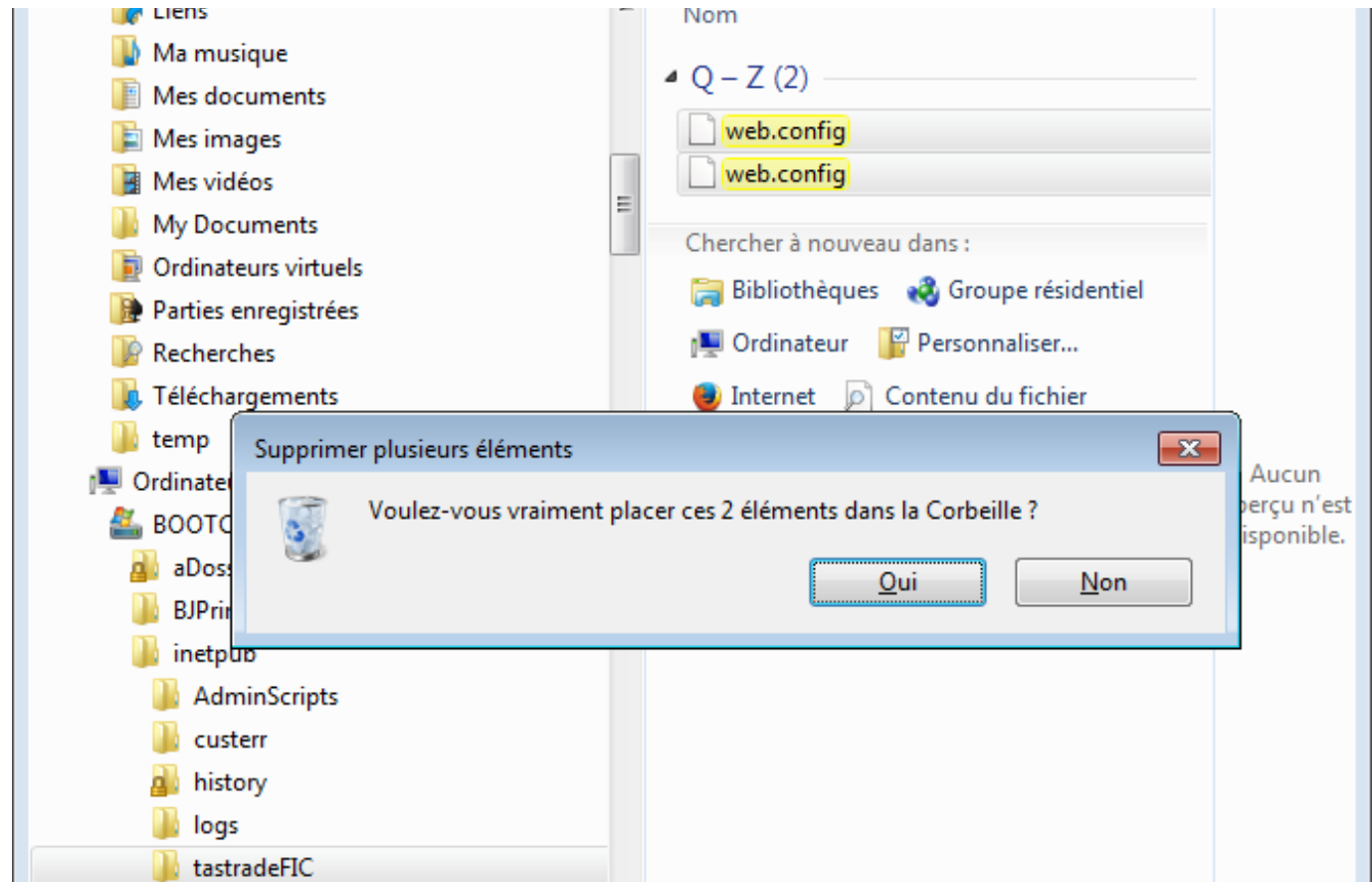
As in your dev.  
environment,  
you will  
create 2 sites  
on target  
production  
server, one  
for **test** and  
one for  
**production**.





# Delete copied web.config files

Make sure to delete the `web.config` files as they contain addresses from your dev. machine that are irrelevant on your prod. server.







# Create a pool for FoxInCloud applications

(IIS >=6)

At your server root, add an application pool with the properties pictured here.

Ajouter un pool d'applications

Nom :  
FoxInCloud

Version du .NET Framework :  
.NET Framework v2.0.50727

Mode pipeline géré :  
Intégré

Démarrer immédiatement le pool d'applications

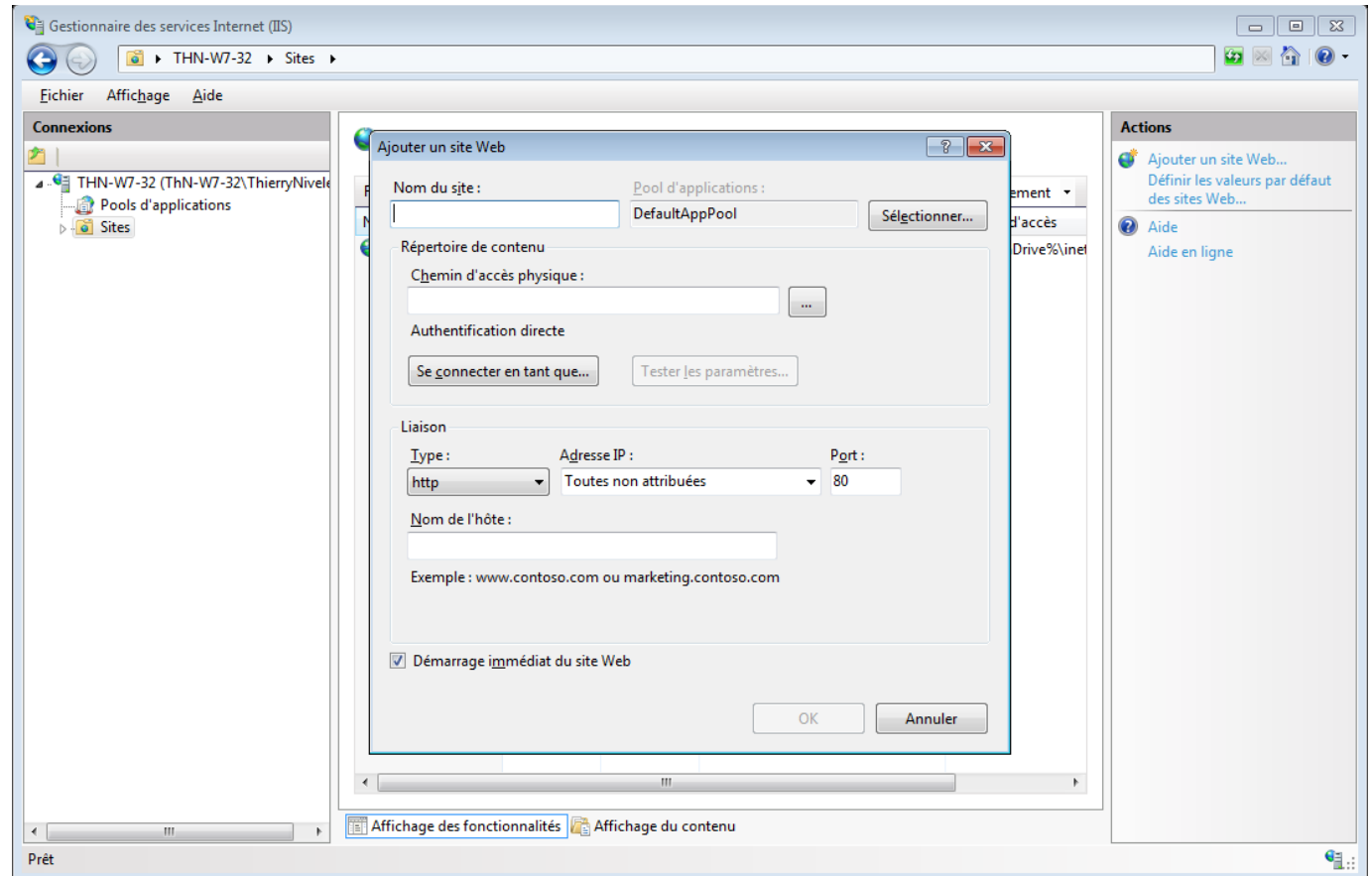
OK Annuler



# Create your IIS Web Site

From the server root > sites, add a site using the FoxInCloud app. Pool.

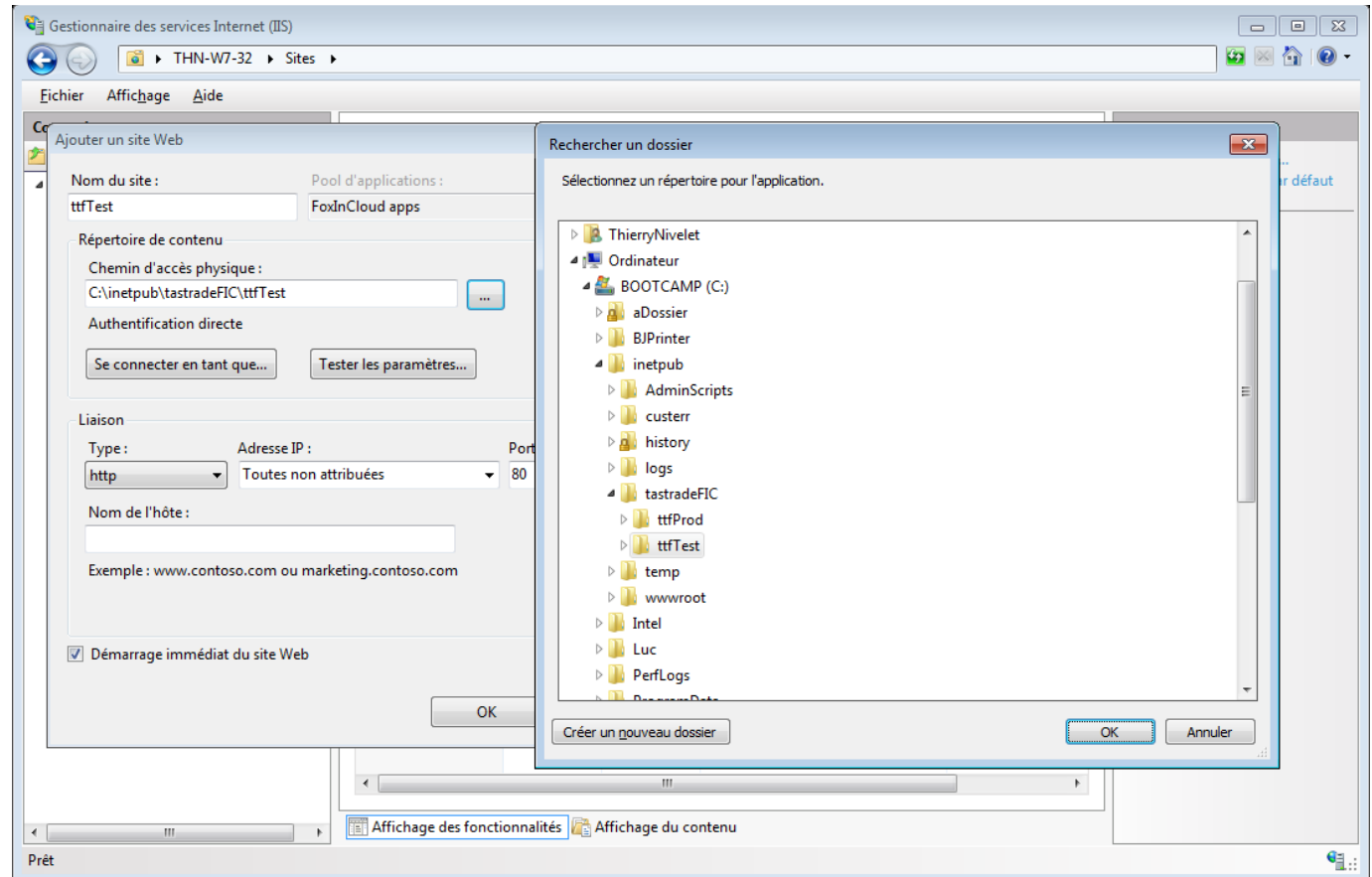
For simplicity, name it according to your source project (xxxTest | xxxProd)





# Point site to the folder you just copied

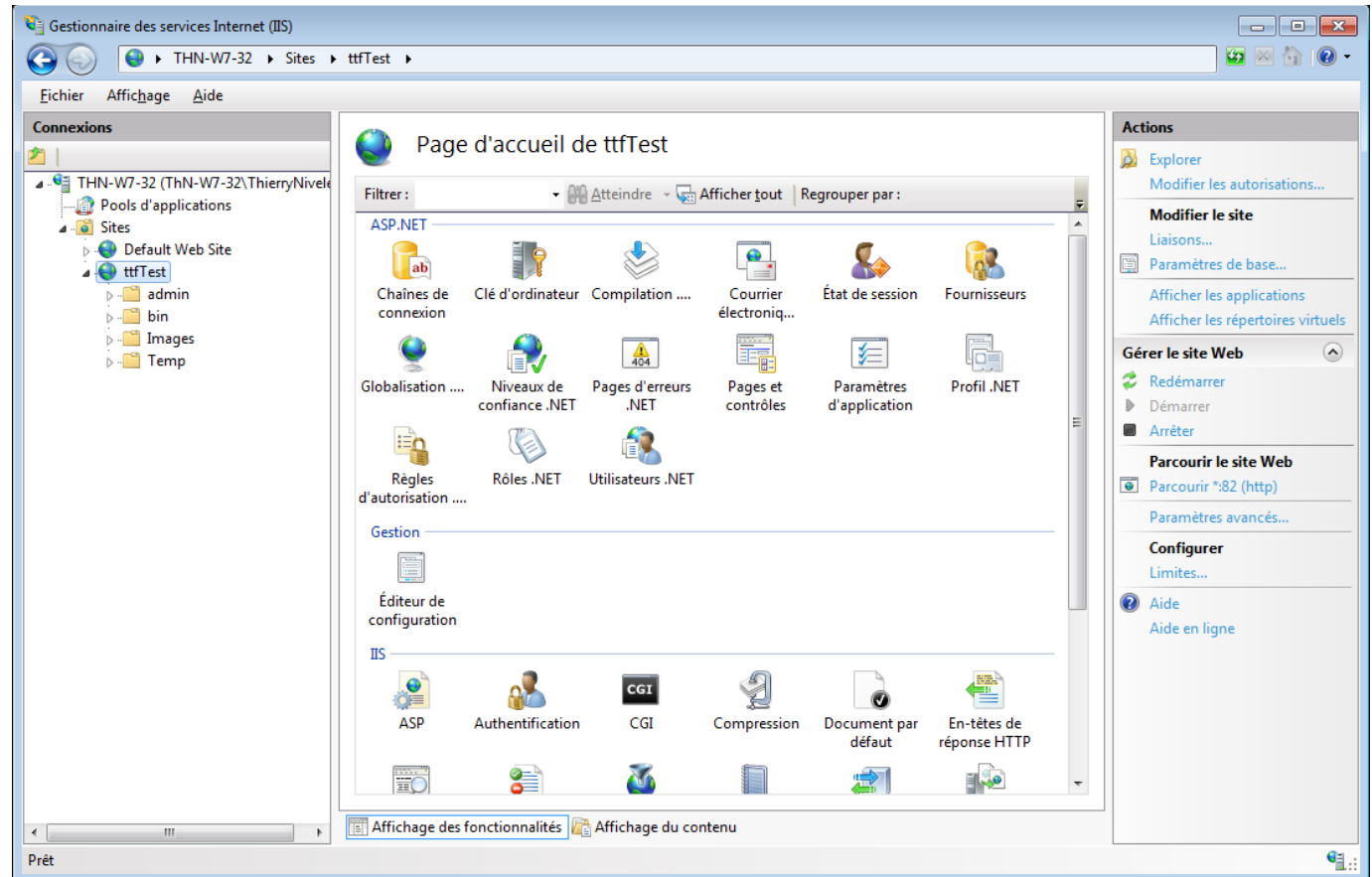
Site root folder is one of the 2 sub-folders you've just created in `inetpub\`





# Site is created

New site shows the folder contained in inetpub sub-folder.





# Site responds (default home page)

Default home page is [index.htm](#) that FAA has build for you in step 3-publish;

(will be replaced in a next step)

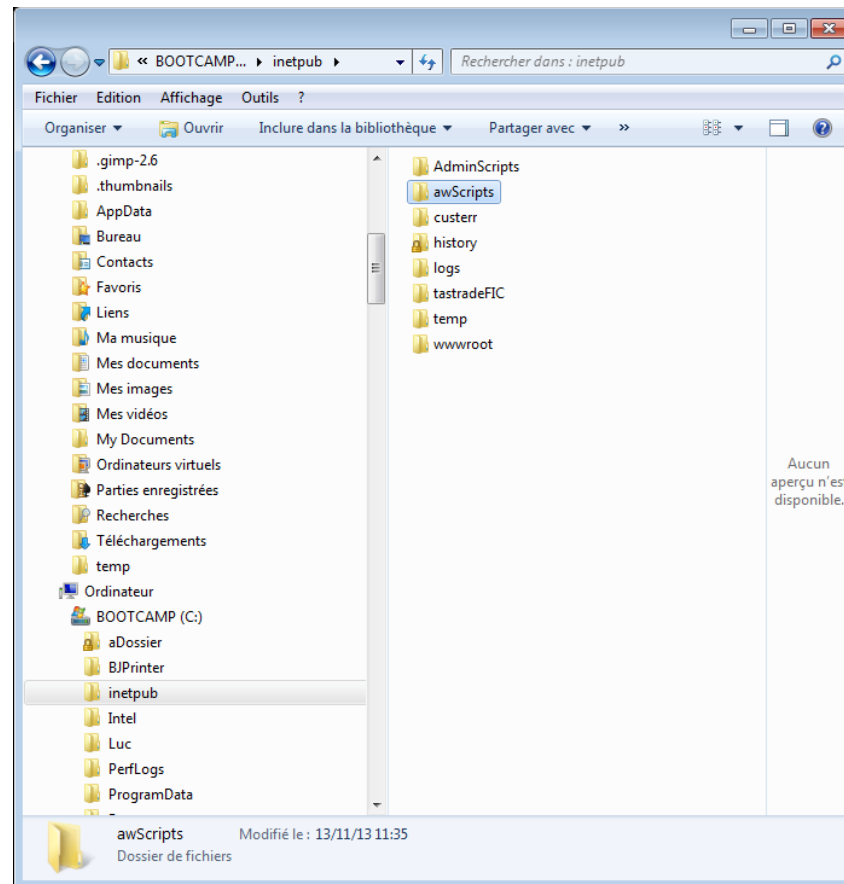




# Create FoxInCloud script folder

In  
`inetpub\`,  
add a  
folder  
named  
`awScripts`.

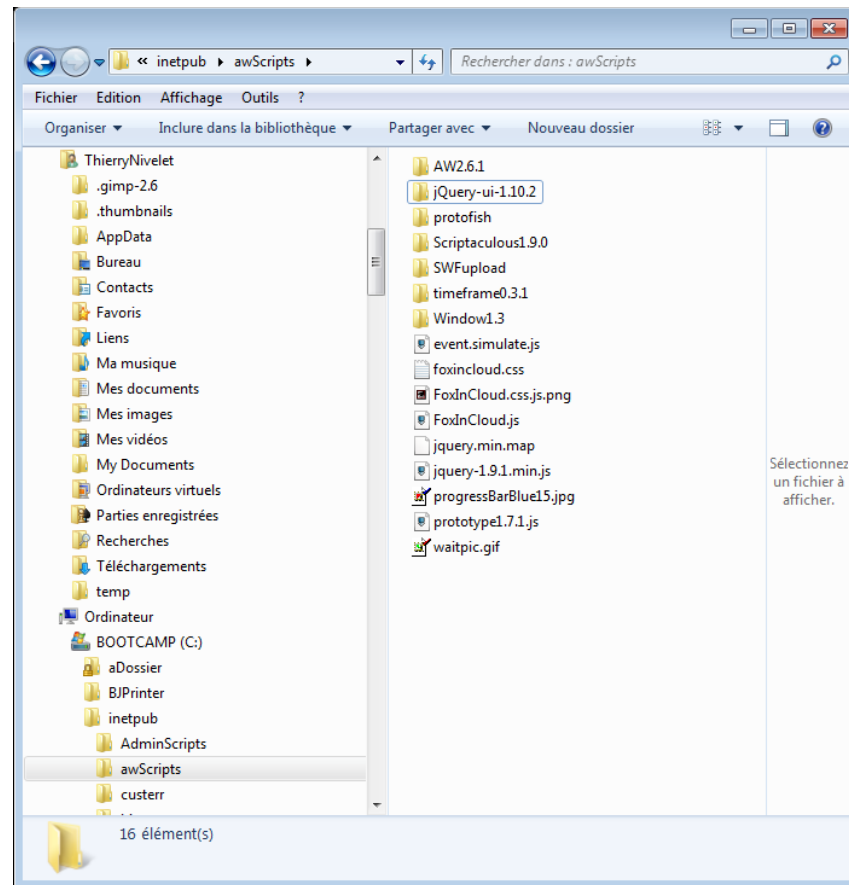
Following FiC's  
naming  
convention,  
'awScripts'  
means  
'standard  
FoxInCloud  
CSS and JS'





Copy FoxInCloud \*.css & \*.js  
into inetpub\awScripts\

Copy the contents of  
<VFP9>  
\Tools\AB  
\AW  
\Scripts\  
from your  
dev.  
machine to  
your server,  
**EXCEPT**  
**\_Source\**  
folder  
containing  
© code.

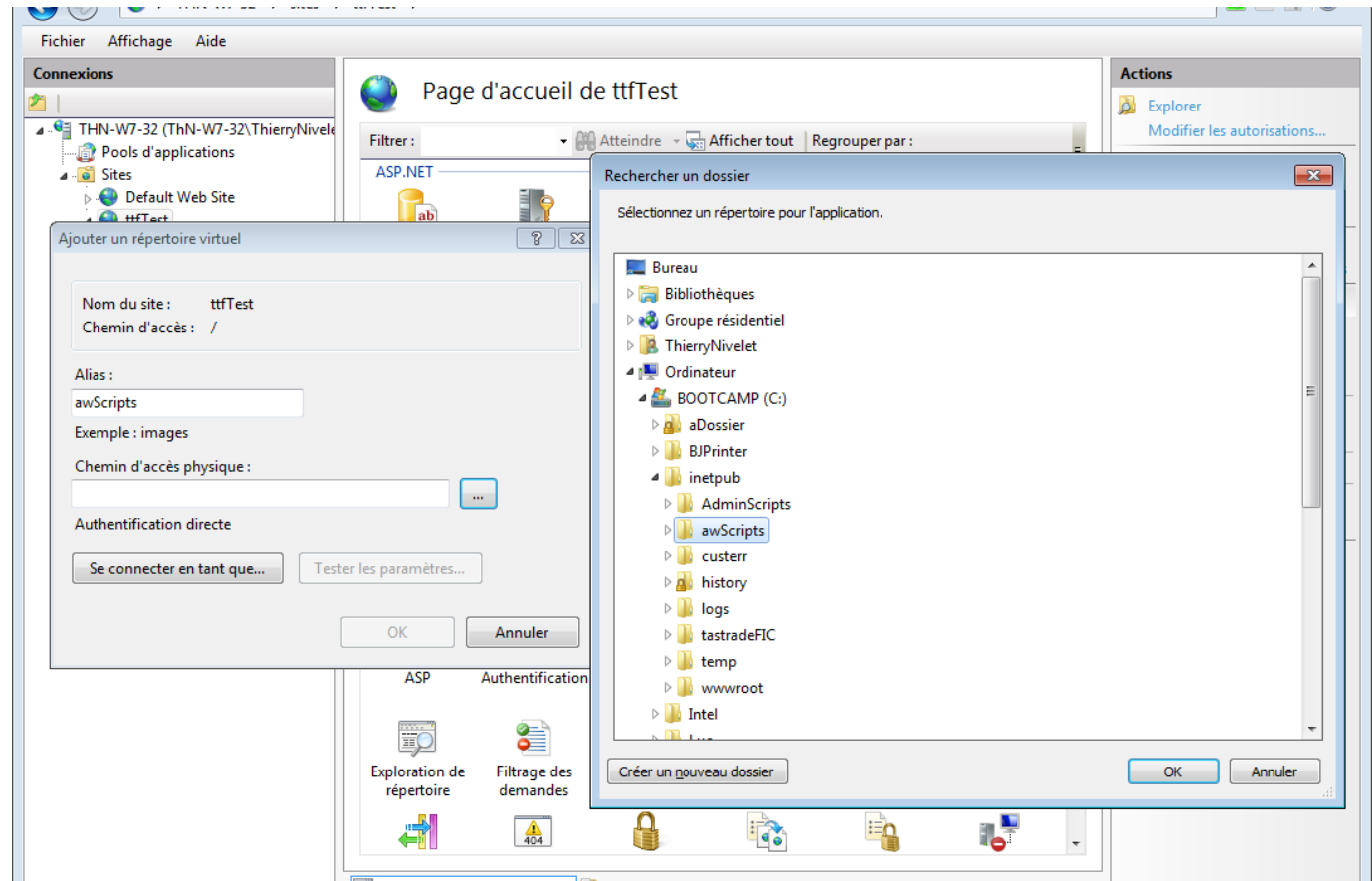




# Create /awScripts/ virtual directory at site root

Create a  
virtual  
directory  
alias  
`awScripts`  
at the root  
of your site.

(though you  
can configure  
another  
address, this  
default location  
is  
recommended)

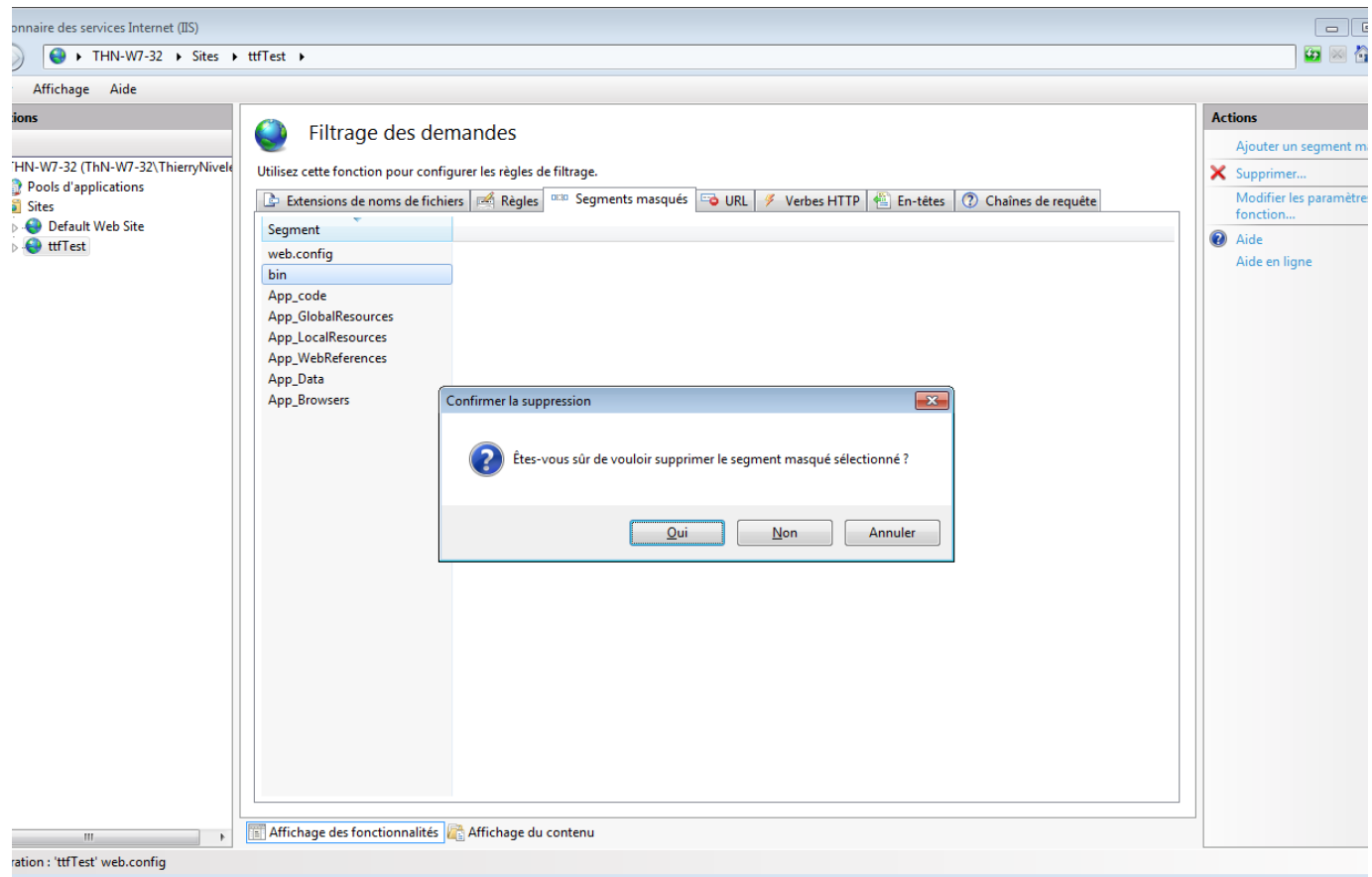






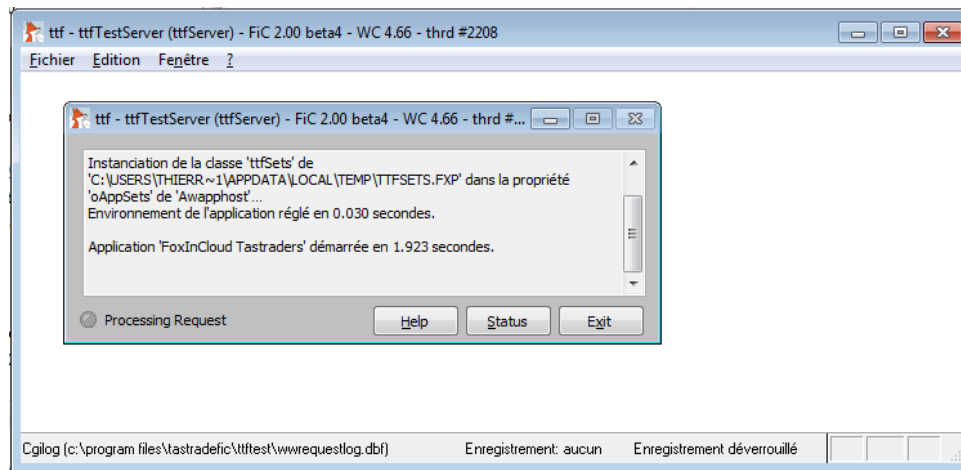
# Allow requests on /bin/\*

At your server or site root, open the 'request filtering' feature and remove 'bin' from the list of hidden segments.



# Session 4, episode 2

## Creating your Web Application

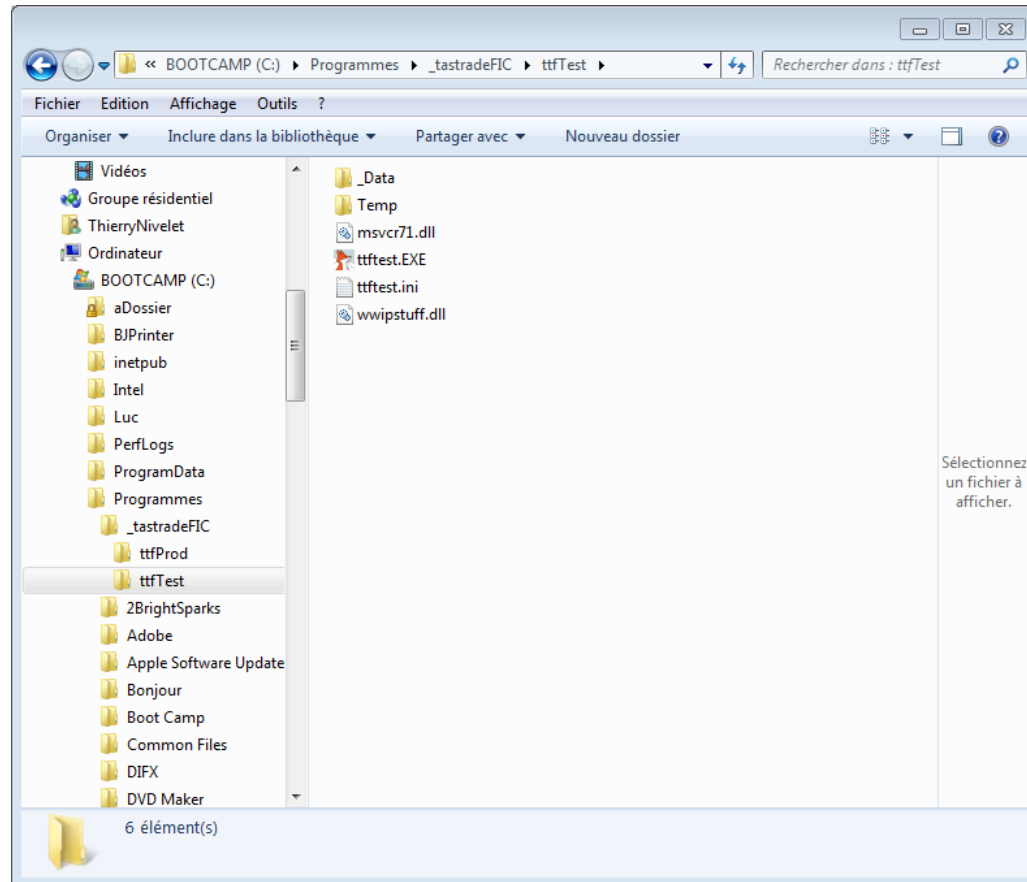




# Copy program files

Copy your VFP

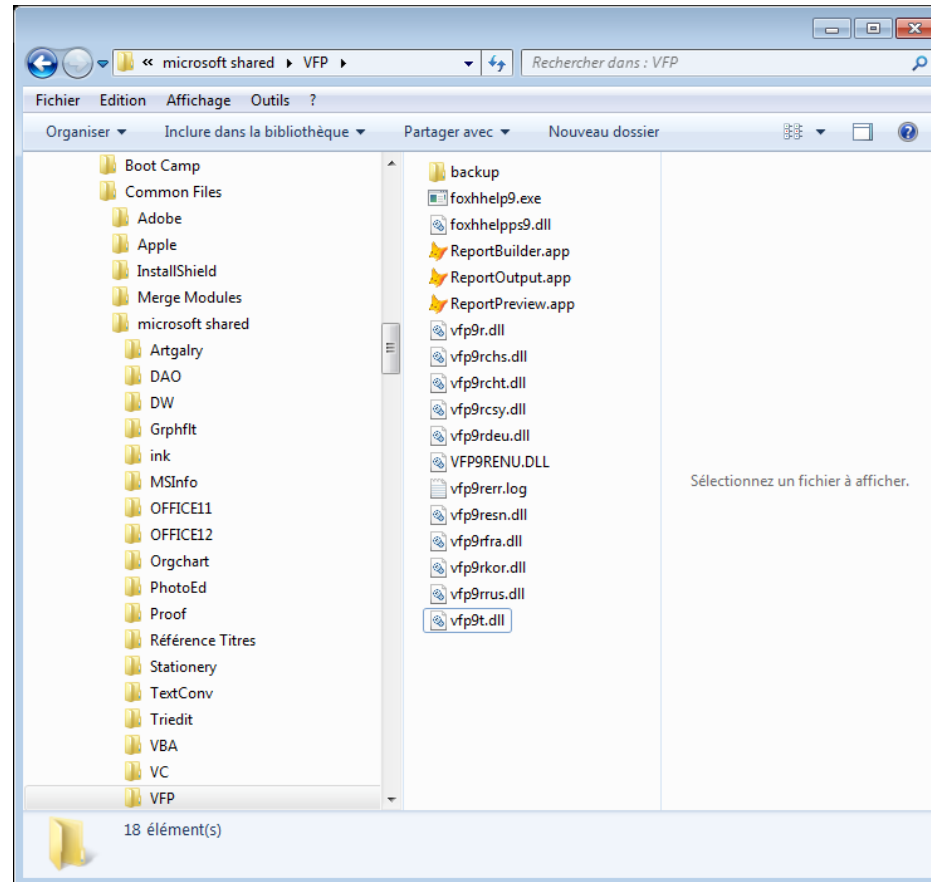
\*.exe /  
\*.ini, a  
couple of  
\*.dll, your  
app  
resources  
(data,  
images,  
reports, ...)  
and a  
Temp\  
folder.





# Install VFP9\*.dll

You can  
deploy  
VFP9\*.dll  
either your  
application's  
folder, or in  
the standard  
shared folder  
(recommen  
ded)





# Register your VFP exe as a COM server

Run  
your .exe  
/regserver  
to register  
your app's  
COM  
object.

(on your dev  
machine, VFP  
auto registers  
your COM server  
upon each  
BUILD EXE)

```
ca. Administrateur : C:\Windows\system32\cmd.exe
Microsoft Windows [version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Tous droits réservés.

C:\Users\ThierryNivelet>cd c:\program files
c:\Program Files>cd tastradeFIC\ttfTest
c:\Program Files\tastradeFIC\ttfTest>dir *.exe
Le volume dans le lecteur C s'appelle BOOTCAMP
Le numéro de série du volume est 1005-FCFA

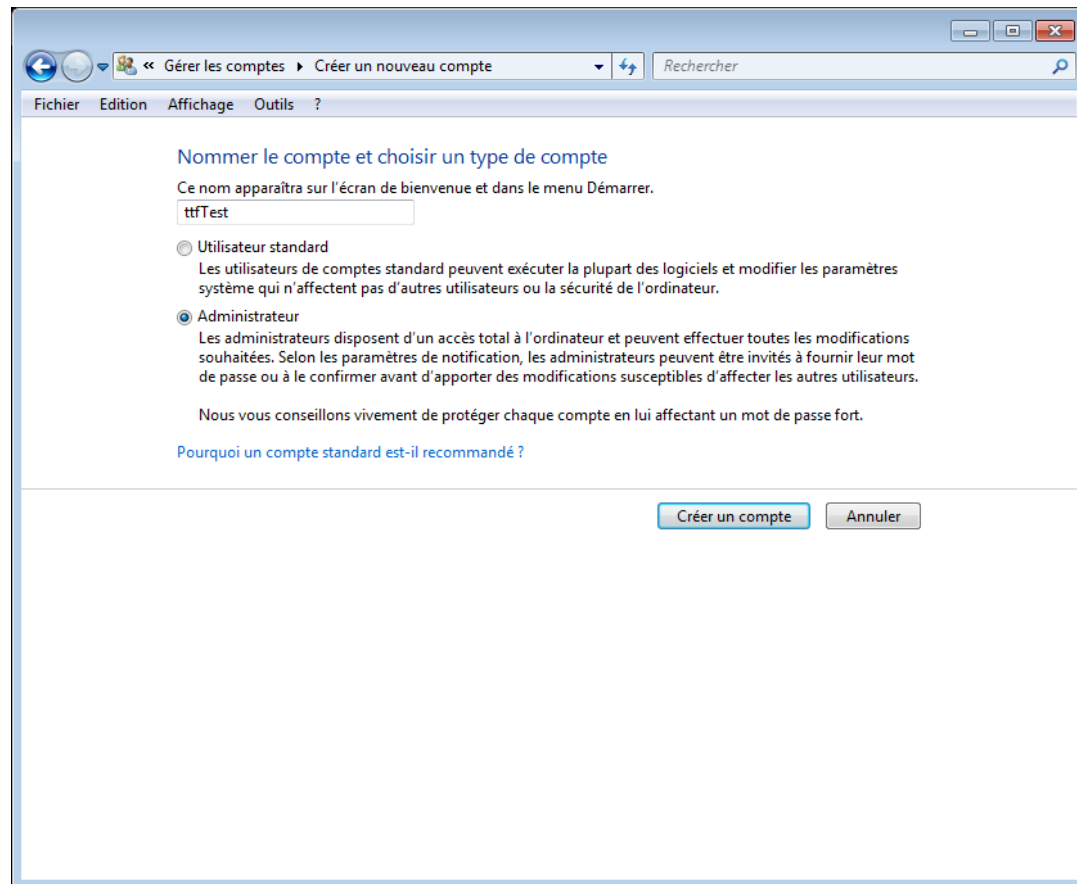
Répertoire de c:\Program Files\tastradeFIC\ttfTest
13/11/13  10:16                9 902 272  tfttest.EXE
             1 fichier(s)          9 902 272 octets
             0 Rép(s)          9 473 130 496 octets libres

c:\Program Files\tastradeFIC\ttfTest>tfttest.exe /regserver
```



# Create a dedicated user

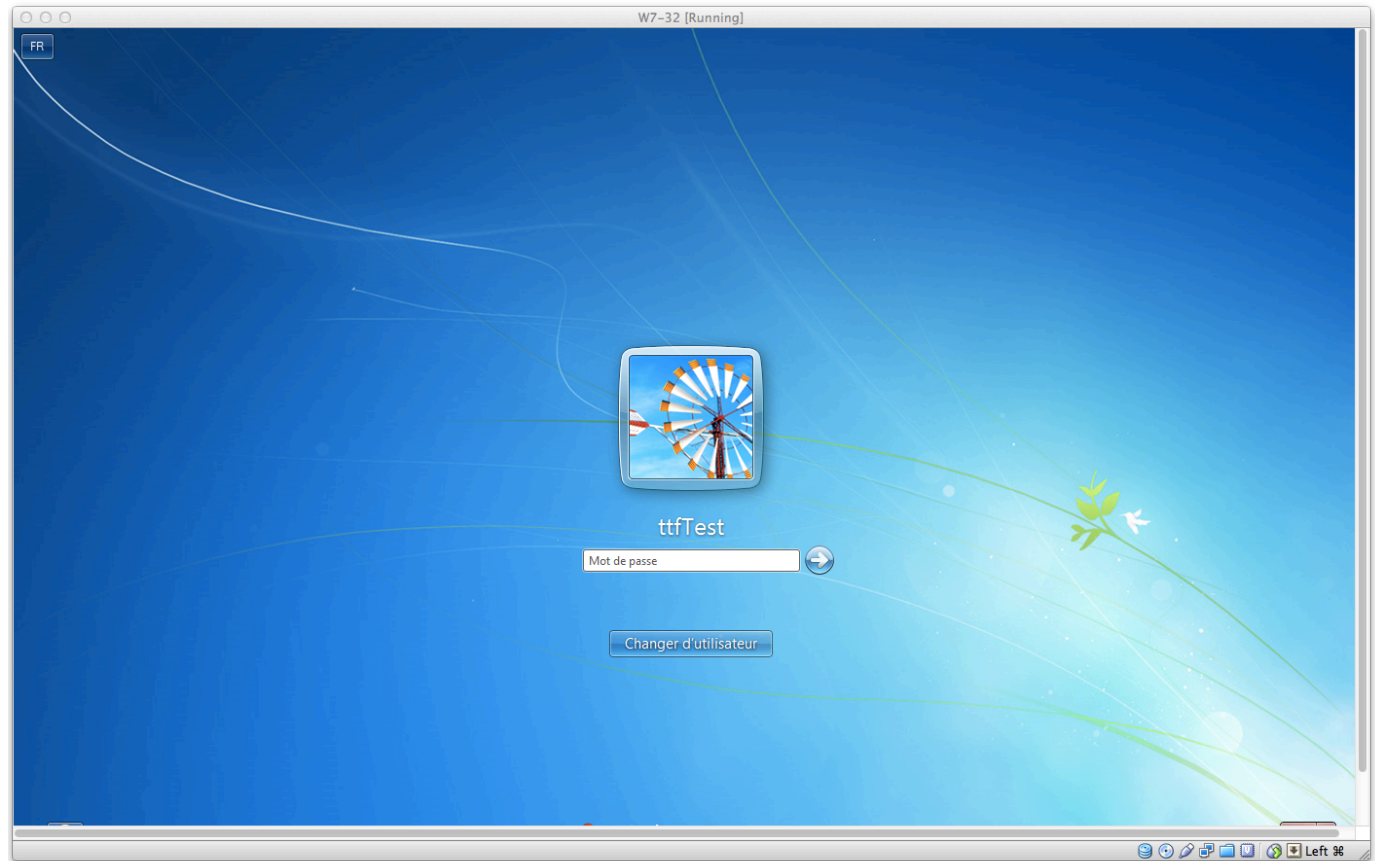
Each instance of your web app. should run under a dedicated user account named similarly.





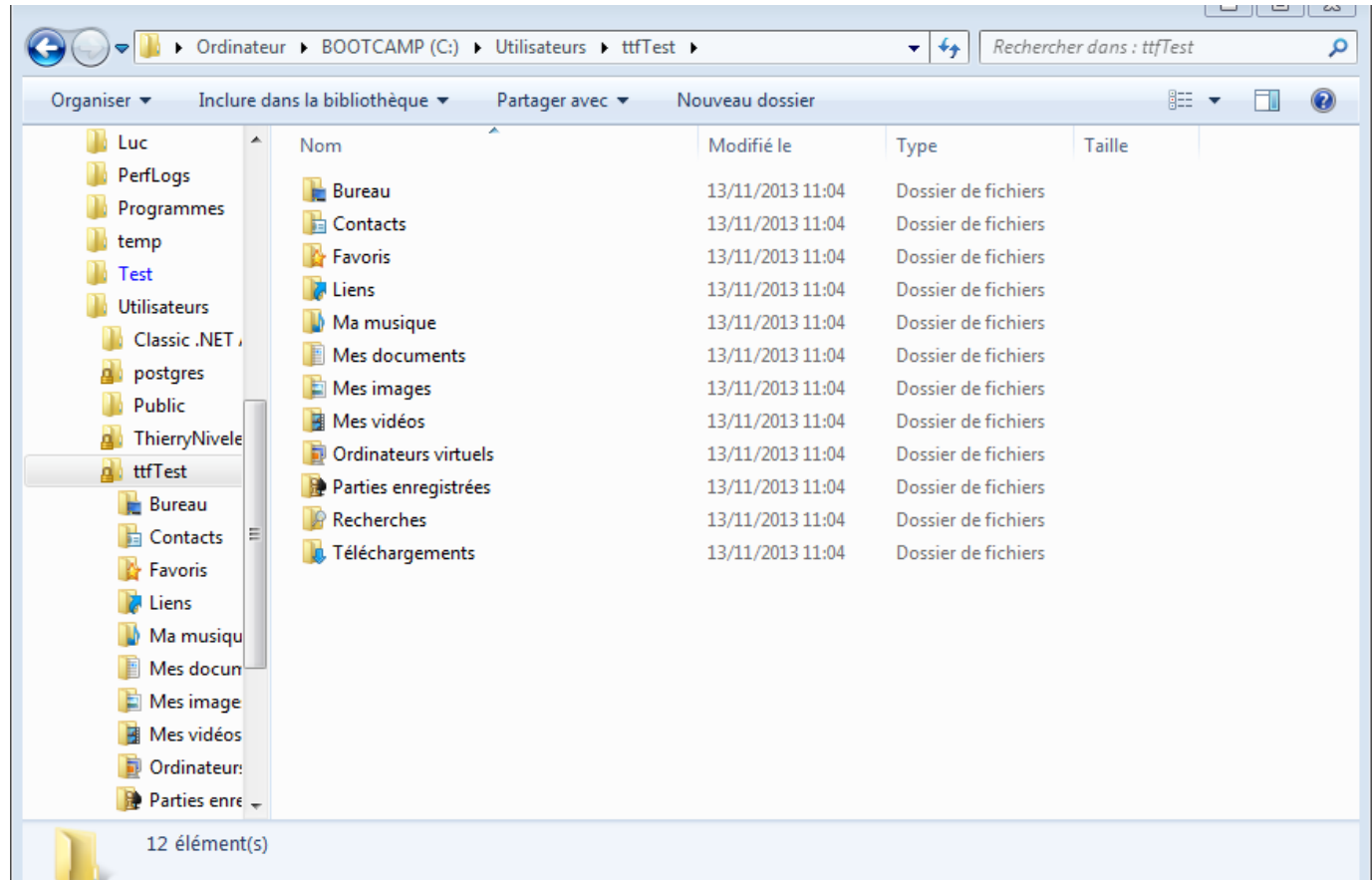
# Open a session for this dedicated user

Opening a session ensures the creation of a workspace & temp folder where the app. will work into.





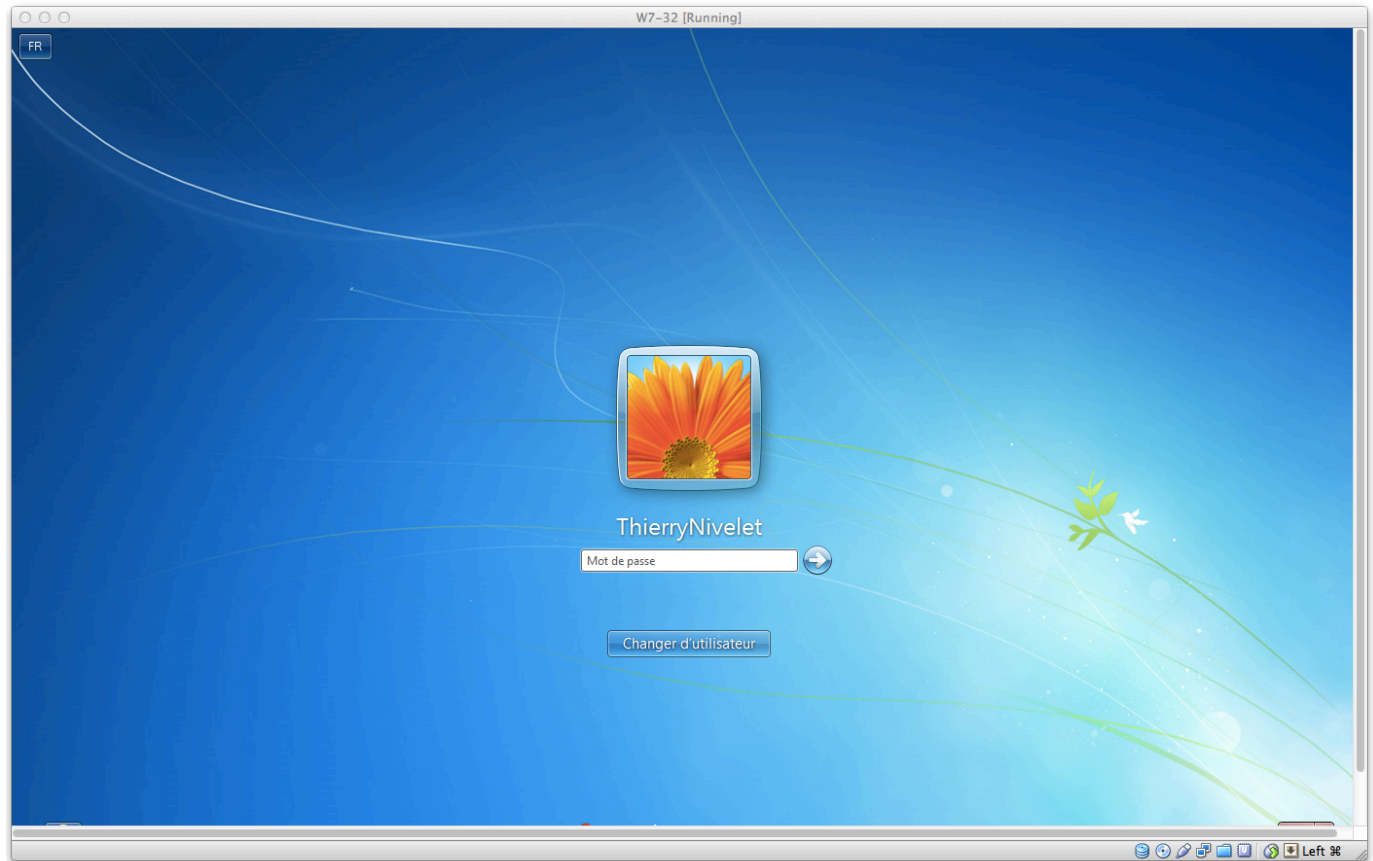
# Dedicated user's workspace is created







# Get back to your session

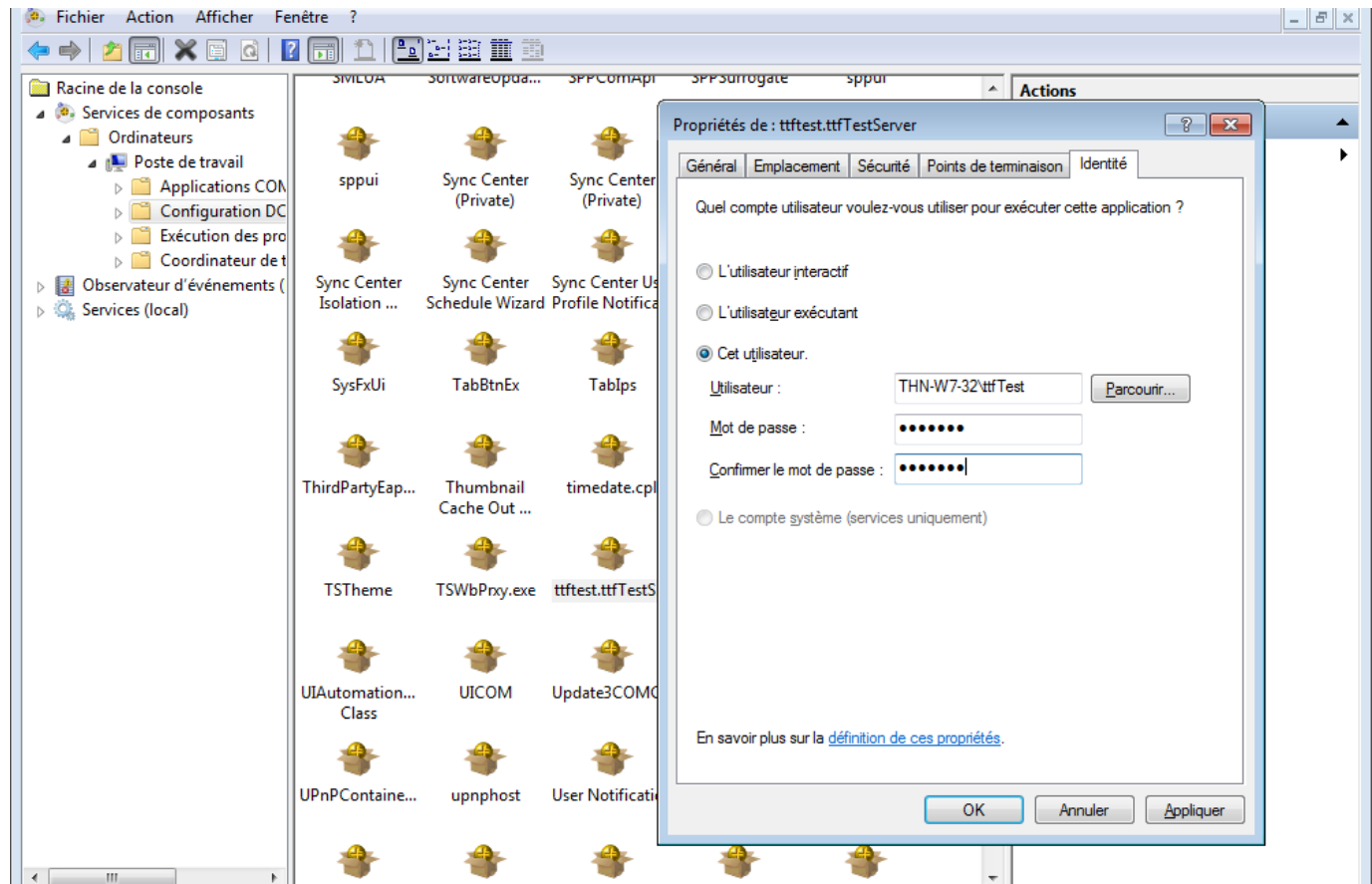


Any question? Post with screenshot in the 'FoxInCloud' section of <http://west-wind.com/wwThreads/> or <http://www.universalthread.com/>



# Set your app COM object to run as the user just created

Run `dcomcnfg`, select your COM server and set identity to the user you just created.



Session 4, episode 3

Linking Web site and Web app





# Adjust contents in wc.ini & xxxTest | Prod.ini

Adjust the  
the various  
pathes to  
your  
production  
server  
install, fill  
out your  
customer,  
admin and  
FAS IDs and  
keys

```
File Edit Selection Find View Goto Tools Project Preferences Help
tfftst.ini x wc.ini x
1 ; .INI FILE FOR WC.DLL
2 ; =====
3
4 ; wc.dll reads this file once at startup, and each time you press the
5 ; 'Update DLL INI File' button in the 'Editing Config Files' form
6 ; (admin.asp > 'Edit configuration files' ../wc.dll?wwMaint~EditConfig)
7
8 ; Comments in this file originate partly from web connect documentation,
9 ; partly from FoxInCloud to ease server setup. You obviously can delete or
10 ; simplify these comments when your application goes into production.
11
12 ; wConnect documentation about this file is titled "The wc.ini configuration file"
13
14 ; Everywhere in this file, you need to replace 'tft' by your application
15 ; code as explained in the FoxInCloud documentation:
16 ; http://foxincloud.com/How-to.php?HowTo=awServerDev
17
18 ; tftTest.exe means either the Test or Production version of
19 ; your FoxInCloud Server.
20
21 ; 'Test' and 'Development' are 2 different concepts for FoxInCloud:
22 ; you should have a Test server in your production environment to test
23 ; changes in your application before putting them into production for real users.
24
25 [wwcgi]
26
27 ; =====
28 ; BASE DEVELOPMENT SETTINGS
29 ; =====
30
31 Path=C:\Users\Public\FoxInCloudTemp\tft\
32 ; Full path to wConnect Temp files directory.
33 ; REQUIRED
```



# Create script-mapped extension

Make sure ISAPI is allowed at server level. If you run Windows 64 bits, allow 32-bit apps at server level.

The screenshot shows the IIS Manager interface for the 'tftTest' site. The 'Mappages de gestionnaires' page is active, displaying a list of file extensions and their associated handlers. Two dialog boxes are open:

- Ajouter un mappage de scripts:** The 'Chemin des demandes' field contains '\*.tftf'. The 'Exécutable' field contains 'C:\inetpub\tastradeFIC\tftTest\bin\wc.dll'. The 'Nom' field contains 'tftTest'.
- Restrictions des demandes:** The 'Mappage' tab is selected. Under 'Spécifier l'accès requis par le gestionnaire', the 'Exécution' radio button is selected.

The background table shows the following mapping information:

Extension	État	Type	Module	Héritée
*.exe	Activé	Fichier	CgiModule	Héritée
*.stm	Activé	Fichier	ServerSideInclude...	Héritée
*.shtm	Activé	Fichier	ServerSideInclude...	Héritée
*.shtml	Activé	Fichier	ServerSideInclude...	Héritée
*	Activé	Non défini	ProtocolSupport...	Héritée
*	Activé	Non défini	ProtocolSupport...	Héritée
*	Activé	Fichier ou dos...	StaticFileModule...	Héritée



# Script-mapped extension created

When clicking OK, allow the ISAPI module to execute.

Mappages de gestionnaires

Utilisez cette fonction pour indiquer les ressources, telles que les DLL et le code managé qui traitent les réponses pour des types de demandes spécifiques.

Nom	Chemin d'accès	État	Type de chemin	Gestionnaire	Type d'ent...
TRACEVerbHandler	*	Activé	Non défini	ProtocolSupport...	Héritée
OPTIONSVerbHandler	*	Activé	Non défini	ProtocolSupport...	Héritée
StaticFile	*	Activé	Fichier ou dos...	StaticFileModule...	Héritée
SimpleHandlerFactory-Integrated	*.ashx	Activé	Non défini	System.Web.UI.Si...	Héritée
SimpleHandlerFactory-ISAPI-2.0	*.ashx	Activé	Non défini	IsapiModule	Héritée
WebServiceHandlerFactory-Integrated	*.asmx	Activé	Non défini	System.Web Servi...	Héritée
WebServiceHandlerFactory-ISAPI-2.0	*.asmx	Activé	Non défini	IsapiModule	Héritée
ASPCClassic	*.asp	Activé	Fichier	IsapiModule	Héritée
PageHandlerFactory-Integrated	*.aspx	Activé	Non défini	System.Web.UI.Pa...	Héritée
PageHandlerFactory-ISAPI-2.0	*.aspx	Activé	Non défini	IsapiModule	Héritée
AXD-ISAPI-2.0	*.axd	Activé	Non défini	IsapiModule	Héritée
SecurityCertificate	*.cer	Activé	Fichier	IsapiModule	Héritée
ISAPI-dll	*.dll	Activé	Fichier	IsapiModule	Héritée
CGI-exe	*.exe	Activé	Fichier	CgiModule	Héritée
HttpRemotingHandlerFactory-rem-Integrated	*.rem	Activé	Non défini	System.Runtime...	Héritée
HttpRemotingHandlerFactory-rem-ISAPI-2.0	*.rem	Activé	Non défini	IsapiModule	Héritée
SSINC-shtm	*.shtm	Activé	Fichier	ServerSideInclude...	Héritée
SSINC-shtml	*.shtml	Activé	Fichier	ServerSideInclude...	Héritée
HttpRemotingHandlerFactory-soap-Integrated	*.soap	Activé	Non défini	System.Runtime...	Héritée
HttpRemotingHandlerFactory-soap-ISAPI-2.0	*.soap	Activé	Non défini	IsapiModule	Héritée
SSINC-stm	*.stm	Activé	Fichier	ServerSideInclude...	Héritée
<b>ttfTest</b>	<b>*.ttf</b>	<b>Activé</b>	<b>Non défini</b>	<b>IsapiModule</b>	<b>Local</b>
TraceHandler-Integrated	trace.axd	Activé	Non défini	System.Web.Han...	Héritée
WebAdminHandler-Integrated	WebAdmin.axd	Activé	Non défini	System.Web.Han...	Héritée
AssemblyResourceLoader-Integrated	WebResource.axd	Activé	Non défini	System.Web.Han...	Héritée



# Redirect index.htm to index.xxx

'xxx' is your application code / that you've chosen during FAA step 3-Publish

The screenshot displays the IIS Manager interface for configuring an HTTP redirect. The left-hand pane shows the 'Connexions' tree with the following structure:

- THN-W7-32 (ThN-W7-32)\ThierryNivele
- Pools d'applications
- Sites
  - Default Web Site
    - tftTest
      - admin
      - bin
      - Images
      - Temp
      - index.htm

The main pane is titled 'Redirection HTTP' and contains the following configuration options:

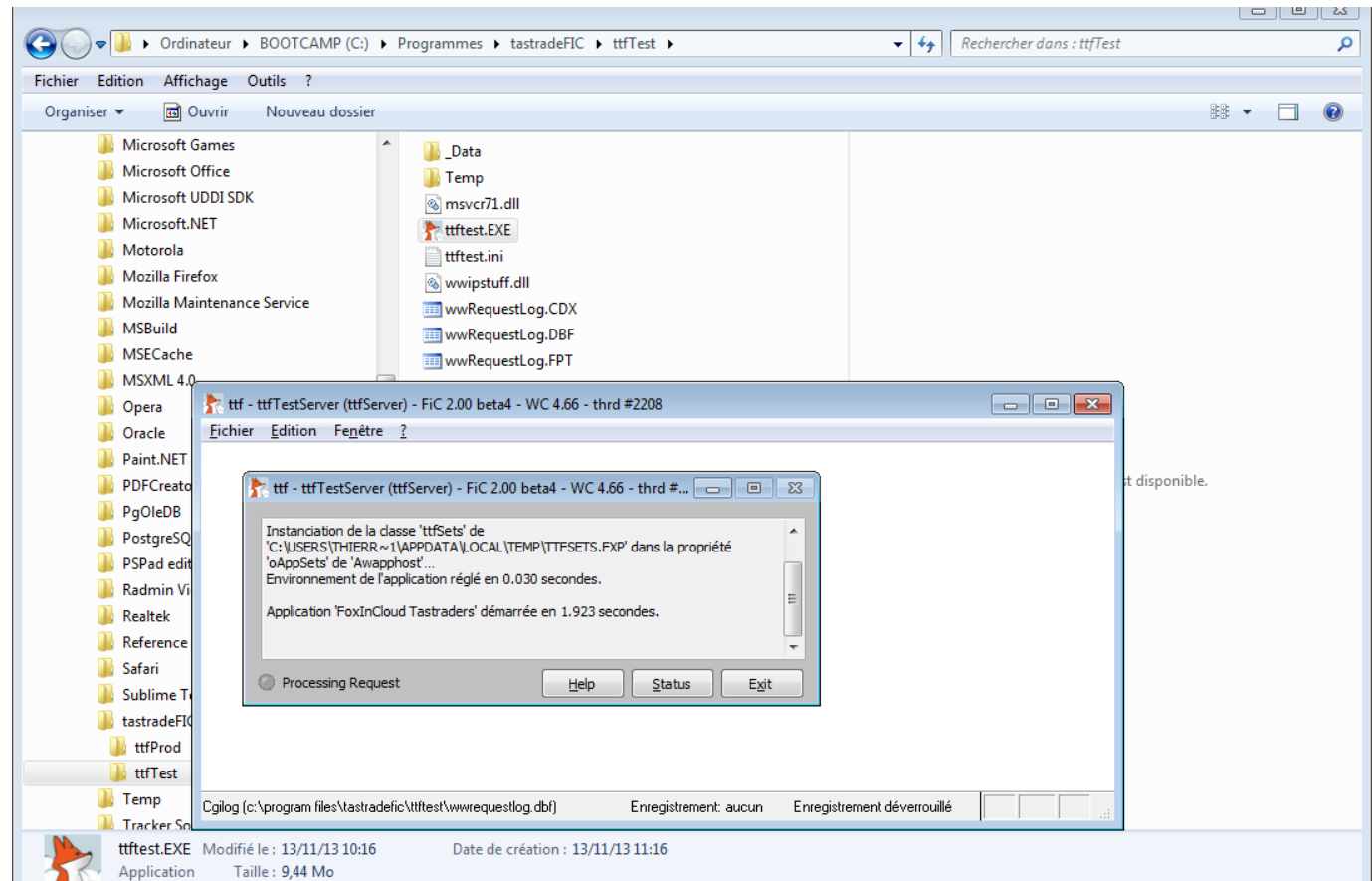
- Utilisez cette fonction pour définir les règles de redirection des demandes entrantes vers un autre fichier ou une autre URL.
- Rediriger les demandes vers cette destination :
  - Text box: index.ttf
  - Exemple : http://www.contoso.com/sales
- Rediriger le comportement
  - Rediriger toutes les dem. vers dest. exacte (et non par rapport à leur dest.)
  - Rediriger unique. les dem. vers contenu de ce rép. (pas les sous-rép.)
- Code d'état :
  - Dropdown menu: Permanent (301)

The right-hand pane shows an 'Alertes' section with a message: 'Les modifications ont été correctement enregistrées.' Below it is an 'Actions' section with 'Appliquer' and 'Annuler' buttons, and a link for 'Aide' (Aide en ligne).

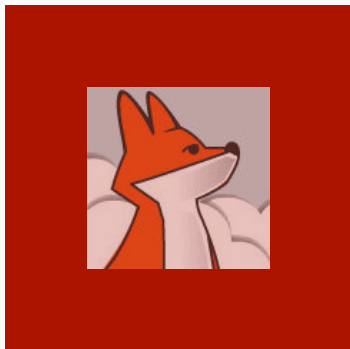


# Run your server as plain exe (file mode)

Running your xxxTest | Prod.exe is just like running your server from the IDE: both use wConnect 'file' mode







# Site home page responds





# Form displayed from menu

The screenshot shows a web browser window with a table of customers and a detailed form for one of them. The table lists various companies and their contact information. The 'Details' form for Alfreds Futterkiste includes fields for company name, address, phone, contact name, and contact title, along with order-related fields like 'Min. amt' and 'Max. amt'.

company	contact	contact title	phone	city	address
Alfreds Futterkiste	Maria Anders	Sales Repres...	030-0074321	Berlin	Obere Str.
Ana Trujillo Empa...	Ana Trujillo	Owner	(5) 555-4729	México ...	Avda. de la
Antonio Moreno T...	Antonio Moreno	Owner	(5) 555-3932	México ...	Mataderos
Around the Horn	Thomas Hardy	Sales Repres...	(71) 555-7788	London	120 Hanov
Berglunds snabb...	Christina Bergl...	Order Adminis...	0921-12 34 65	Luleå	Berguvsvä
Blauer See Delik...	Hanna Moos	Sales Repres...	0621-08460	Mannheim	Forsterstr.
Blondel père et fils	Frédérique Cite...	Marketing Man...	88.60.15.31	Strasbo...	24, place K
Bólido Comidas p...	Martin Sommer	Owner	(91) 555 22 82	Madrid	C/ Araquil

**Details** | Orders

Company: Alfreds Futterkiste | Phone: 030-0074321

Address: Obere Str. 57

Postal code: 12209 | City: Berlin | Country: Germany

Contact name: Maria Anders | Min. amt: \$ 2,600.00 | Save

Contact title: Sales Representative | Discount: 2 | Max. amt: \$ 6,300.00 | Cancel

Print | Close

myCompany :: FoxInCloud



# Switch to COM mode

localhost:82/bin/wc.dll?\_maintain~Load

## Web Connection ISAPI Configuration

[Back to Admin Page](#) | [Re-Read Configuration](#) | [Recover Deadlock](#) | [Unload Servers](#) | [Load Servers](#) | [Load One Server](#)

DLL Version: Web Connection 4.67 (32 servers)  
Current INI File: C:\inetpub\tastradeFIC\ttfTest\bin\wc.INI  
File Template: wc\_  
Script Timeout: 600  
Temp File Path: c:\users\public\foxincloudtemp\ttf\  
Admin Account:  
Current Login: Système

Messaging Mechanism: COM Mode | [File Mode](#)  
POST Mechanism: URL Encoded  
COM Server Loading: Sequential  
Keep Alive: Force Keep Alive  
Hold Requests: Servers running [Switch](#)  
Lock: -1 Recursion: 0 Spin: 0

COM Servers	Hits	Active	Cumulative	Started	PID	Action
ttfTest.ttfTestServer	0	0 secs	0 secs	11:54 - 11/13/2013	5936	<a href="#">Kill</a>

[Show this info as XML](#)



# Form displays in COM mode

The screenshot shows a web browser window with the following content:

- Browser tabs: Web Connection ISAPI Configuration, Tastrate Customers - FoxInCloud Tas...
- Address bar: <http://localhost:82/wFormStandardPage.ttf?awForm=customers.scx>
- Page title: FoxInCloud Tastraders
- Table: Tastrate Customers - FoxInCloud Tastraders

company	contact	contact title	phone	city	address
Alfreds Futterkiste	Maria Anders	Sales Repres...	030-0074321	Berlin	Obere Str.
Ana Trujillo Empa...	Ana Trujillo	Owner	(5) 555-4729	México ...	Avda. de la
Antonio Moreno T...	Antonio Moreno	Owner	(5) 555-3932	México ...	Mataderos
Around the Horn	Thomas Hardy	Sales Repres...	(71) 555-7788	London	120 Hanow
Berglunds snabb...	Christina Bergl...	Order Adminis...	0921-12 34 65	Luleå	Berguvsväg
Blauer See Delik...	Hanna Moos	Sales Repres...	0621-08460	Mannheim	Forsterstr. 5
Blondel père et fils	Frédérique Cite...	Marketing Man...	88.60.15.31	Strasbo...	24, place K
Bólido Comidas p...	Martin Sommer	Owner	(91) 555 22 82	Madrid	C/ Araquil, 67

Details form fields:

- Company: Alfreds Futterkiste
- Phone: 030-0074321
- Address: Obere Str. 57
- Postal code: 12209
- City: Berlin
- Country: Germany
- Contact name: Maria Anders
- Contact title: Sales Representative
- Discount: 2
- Min. amt: \$ 2,600.00
- Max. amt: \$ 6,300.00

Buttons: Print, Close, Save, Cancel

Footer: myCompany :: FoxInCloud



# Our VFP exe runs in COM mode as our dedicated user

services.exe	Systeme	00	00:00:01	2 700 K	1 732 K
smss.exe	Système	00	00:00:00	52 K	52 K
SnippingTool.exe	ThierryNivelet	01	00:00:16	20 752 K	8 224 K
spoolsv.exe	Système	00	00:00:00	2 284 K	1 184 K
sppsvc.exe	SERVICE RÉSEAU	00	00:00:01	1 740 K	628 K
sublime_text.exe	ThierryNivelet	00	00:00:03	2 856 K	1 676 K
svchost.exe	Système	00	00:00:00	1 240 K	680 K
svchost.exe	Système	00	00:00:01	2 060 K	1 060 K
svchost.exe	SERVICE RÉSEAU	00	00:00:01	2 664 K	1 904 K
svchost.exe	SERVICE LOCAL	00	00:00:01	4 364 K	2 668 K
svchost.exe	Système	00	00:00:05	14 344 K	13 144 K
svchost.exe	SERVICE LOCAL	00	00:00:01	7 332 K	4 216 K
svchost.exe	Système	00	00:00:12	9 268 K	5 644 K
svchost.exe	SERVICE RÉSEAU	00	00:00:00	3 136 K	2 092 K
svchost.exe	SERVICE LOCAL	00	00:00:01	5 108 K	3 740 K
svchost.exe	Système	00	00:00:00	844 K	536 K
svchost.exe	SERVICE LOCAL	00	00:00:00	4 792 K	2 232 K
svchost.exe	Système	00	00:00:08	11 436 K	8 492 K
svchost.exe	SERVICE LOCAL	00	00:00:01	4 504 K	2 052 K
System	Système	00	00:00:14	52 K	40 K
taskhost.exe	ThierryNivelet	00	00:00:00	2 148 K	1 108 K
taskmgr.exe	ThierryNivelet	02	00:00:05	7 880 K	2 092 K
TCPSVCS.EXE	SERVICE LOCAL	00	00:00:00	228 K	156 K
<b>ttfest.EXE</b>	<b>ttfest</b>	<b>00</b>	<b>00:00:02</b>	<b>26 360 K</b>	<b>14 884 K</b>
VBoxService.exe	Système	00	00:00:00	1 668 K	848 K
VBoxTray.exe	ThierryNivelet	00	00:00:02	4 024 K	3 248 K
w3wp.exe	Système	00	00:00:00	8 396 K	4 720 K
w3wp.exe	ThierryNivelet	00	00:00:00	3 000 K	1 480 K



# FoxInCloud app status

.../  
foxincloud-  
status.xxx is  
your web  
application  
dashboard.

*This page will  
include more  
and more  
functionalities  
along future  
FAS versions,  
including  
optimization.*

localhost:82/foxincloud-status.ttf

## FoxInCloud Application 'FoxInCloud Tastraders' - Server status at {^2013-11-13 12:00:53}

**FoxInCloud Application Server (FAS):** Version '2.00 beta4' of {^2013-11-12 18:20:03}  
**Process ID:** 6016  
**Objects:** 186  
**Events:** 15  
**Memory for user objects:** 4,04 MB  
**VFP Temp Folder:** 'C:\Windows\Temp\' - 154 Files  
**FAS Temp Folder:** 'C:\Program Files\VFP9\Tools\AB\AW\Samples\Tastrade\Adapted\Temp\' - 30 Files

### Users connected

None

### FoxInCloud / wConnect DataSession # 1

2 Aliases used - Views: 0, Cursor: 0, Tables: 2

Alias	Work Area	Type	Updateable	FAS int.	Buffering	Fields	Records	Record Tags	Order()	File	Total size
cgilog	00001	Table	Yes	No	1	26	33	33	13	C:\Program Files\VFP9\Tools\AB\AW\Samples\Tastrade\Adapted\wwRequestLog.DBF	37,6 kB
wwsession	00002	Table	Yes	No	1	9	8	8	7	C:\Program Files\VFP9\Tools\AB\AW\Samples\Tastrade\Adapted\wwSession.dbf	39,6 kB

### Application DataSession # 2

11 Aliases used - Views: 2, Cursor: 3, Tables: 6

Alias	Work Area	Type	Updateable	FAS int.	Buffering	Fields	Records	Record Tags	Order()	File	Total size	
awgrd	00001	Table	No	Yes	1	18	651	652	12	AWGRD	C:\Program Files\VFP9\Tools\AB\AW\AWGRD.DBF	348.6 kB
customer	00007	Table	Yes	No	1	15	92	92	2		C:\Program Files\VFP9\Tools\AB\AW\Samples\_Data\customer.dbf	35.8 kB
employee	00006	Table	Yes	No	1	19	15	15	3		C:\Program Files\VFP9\Tools\AB\AW\Samples\_Data\employee.dbf	335.2 kB
orders	00002	Table	Yes	No	1	18	1079	1	7		C:\Program Files\VFP9\Tools\AB\AW\Samples\_Data\orders.dbf	279.5 kB
...	...	...	...	...	...	...	...	...	...	...	C:\Program Files\VFP9\Tools\AB\AW\...	167.3 kB

Any question? Post with screenshot in the 'FoxInCloud' section of <http://west-wind.com/wwThreads/> or <http://www.universalthread.com/>