# Qlikview 9 Accesspoint Single Sign On

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# Content

# Introduction

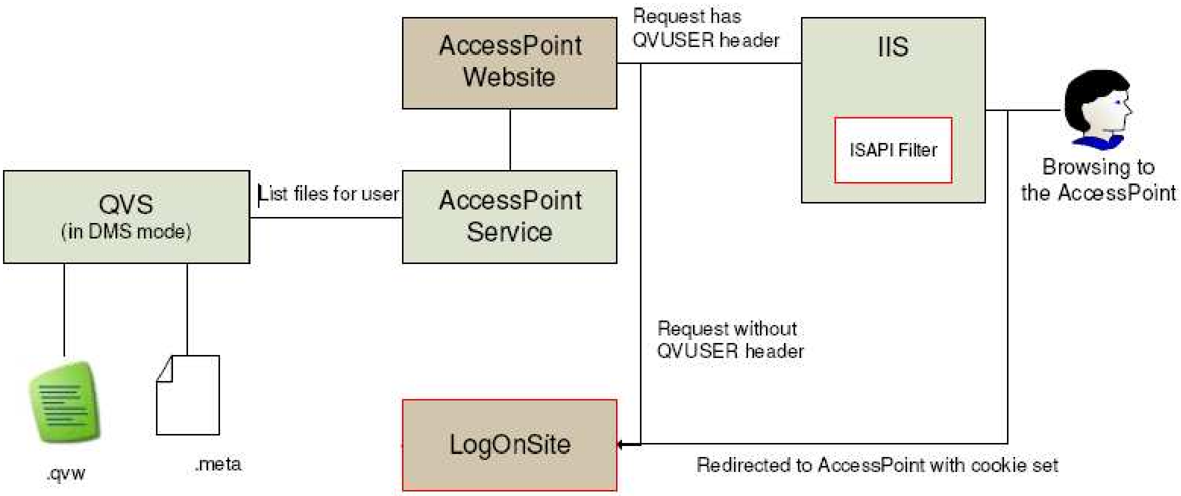
There are many single sign-on solutions in the Market that protect a URL or web resource by redirecting the initial request for a protected resource to a login page prompting the user to enter their (single sign-on) credentials. Once a user is authenticated the user is again redirected, this time back to the originally requested resource, and this time the Single Sign-on solution will have also appended an HTTP header containing the user id of the logged in user. The name of the header will vary from system to system (e.g. the header name is “sm_user” for SiteMinder) and the content will be the user id.

If the Accesspoint does not find the user id in the header, the “Login address” will have Accesspoint redirect to the given URL (note in most commercial single sign-on solutions like this the redirect is handled outside of Accesspoint by the SSO piece so in many cases this will simply be a precaution that should never really get called)

This document describes how to configure Qlikview with IIS to use the existing SSO infrastructure.

## Example

Attached to this document is also a small example to mimic a SSO infrastructure.


AccessPoint Website
Request has QVUSER header
IIS
ISAPI Filter
Browsing to the AccessPoint
QVS (in DMS mode)
List files for user
AccessPoint Service
Request without QVUSER header
.qvw
.meta
LogOnSite
Redirected to AccessPoint with cookie set

The logon site will handle the logon. The actual site will not check the password, but allow whatever username you type in there. In a real world scenario, password checks etc. will have to be implemented.

The logon site will add a cookie to the user called QvCookie, containing the username in clear text. In a real world scenario this should be done using some kind of advanced ticket handling instead.

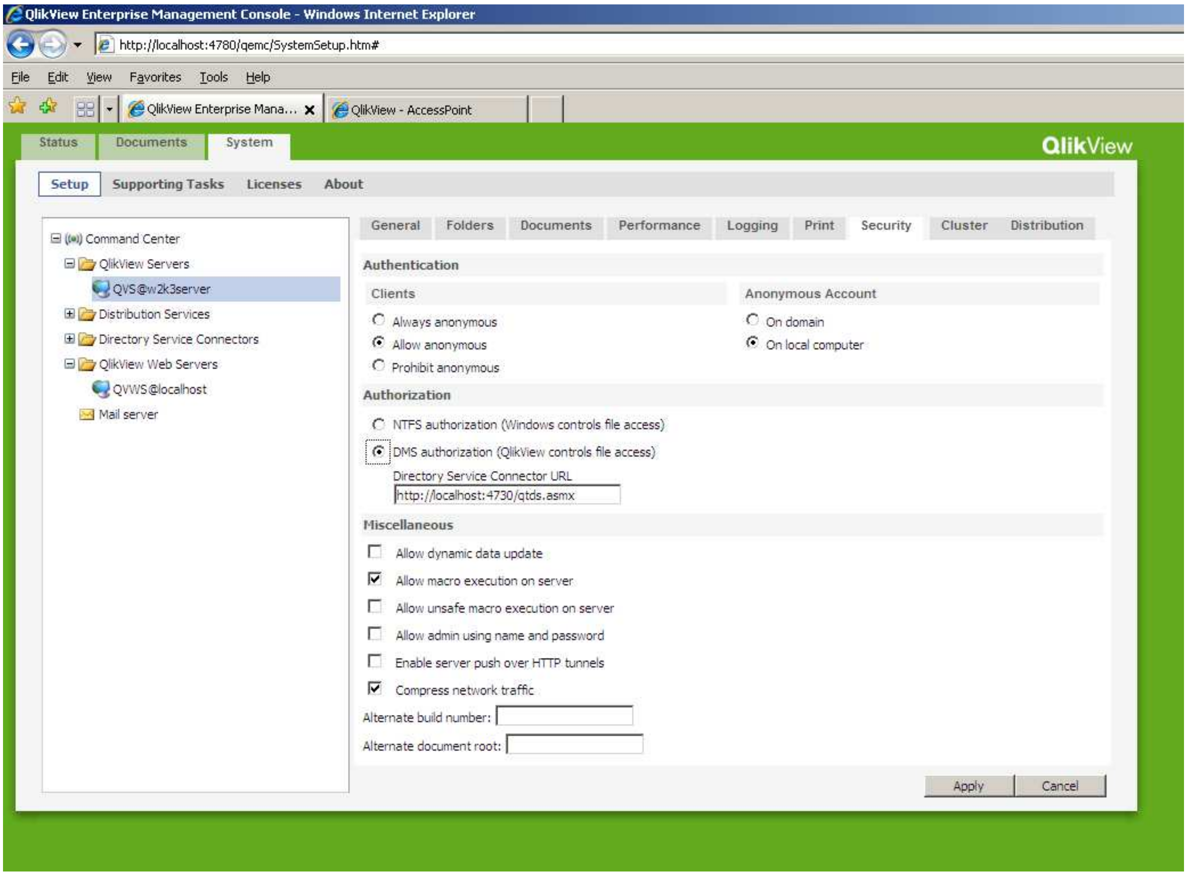
The user will be redirected to the Accesspoint. The ISAPI filter will now check for this cookie and if it is found, it will transfer the value to the header, named QVUSER.
The Accesspoint will trust this header and request files from the Qlikview server for this user.

To allow us to use non windows-user with Qlikview the Qlikview Server has run in DMS mode. Additionally as we have to configure the Accesspoint to look for the HTTP-Header field. As we want to deploy an ISAPI-Filter for the SSO Example, we then need to configure IIS.

# Configuration QV Server

## QVS DMS Mode

Use the QlikView Enterprise Management Console to configure DMS mode. Go to "System|Setup|QlikView Servers| Security|DMS Authorization". Click "Apply" and restart the Qlikview server.



Authentication

Clients
- ○ Always anonymous
- ● Allow anonymous
- ○ Prohibit anonymous

Anonymous Account
- ○ On domain
- ● On local computer

Authorization
- ○ NTFS authorization (Windows controls file access)
- ● DMS authorization (QlikView controls file access)

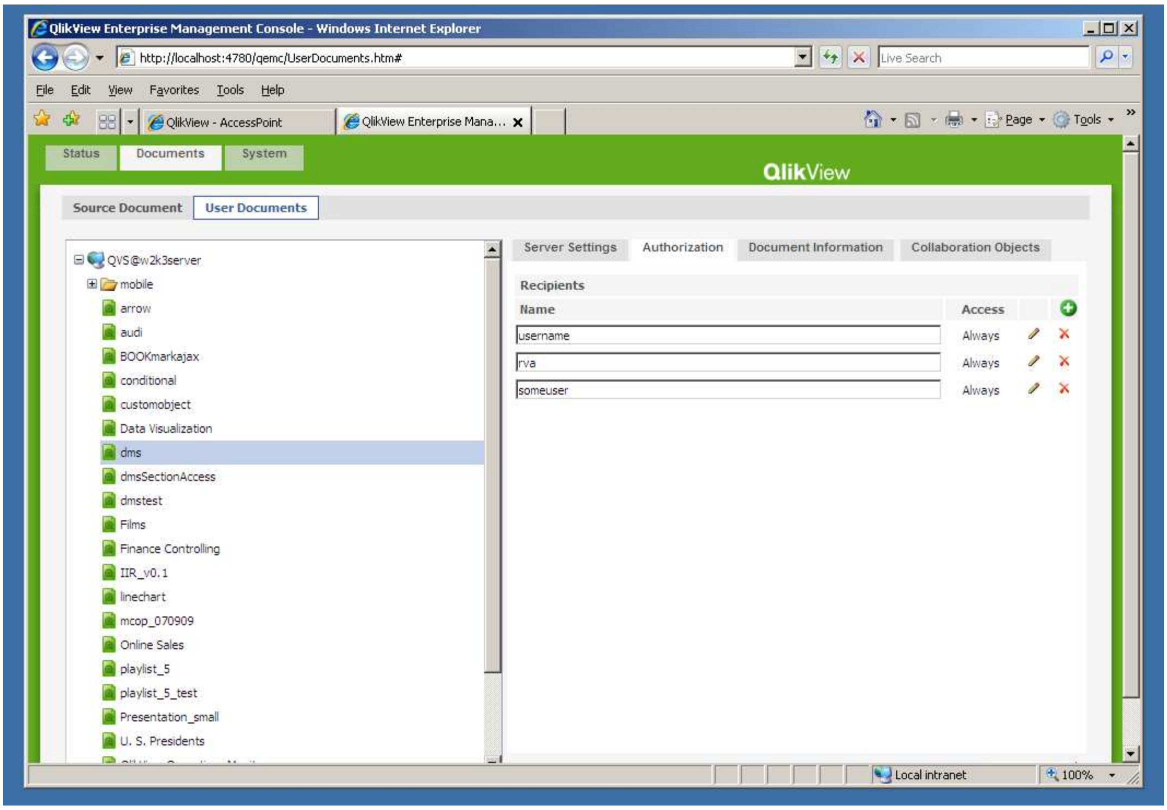
Directory Service Connector URL: http://localhost:4730/qtds.asmx

Miscellaneous
- □ Allow dynamic data update
- ☑ Allow macro execution on server
- □ Allow unsafe macro execution on server
- □ Allow admin using name and password
- □ Enable server push over HTTP tunnels
- ☑ Compress network traffic

Alternate build number:

Alternate document root:

To give users access to documents, go to "Document|User Documents". Select a document and go to "Recipients". Add the usernames (of your SSO system) which should have access to the document.



Recipients

| Name | Access |
|---|---|
| username | Always |
| rva | Always |
| someuser | Always |

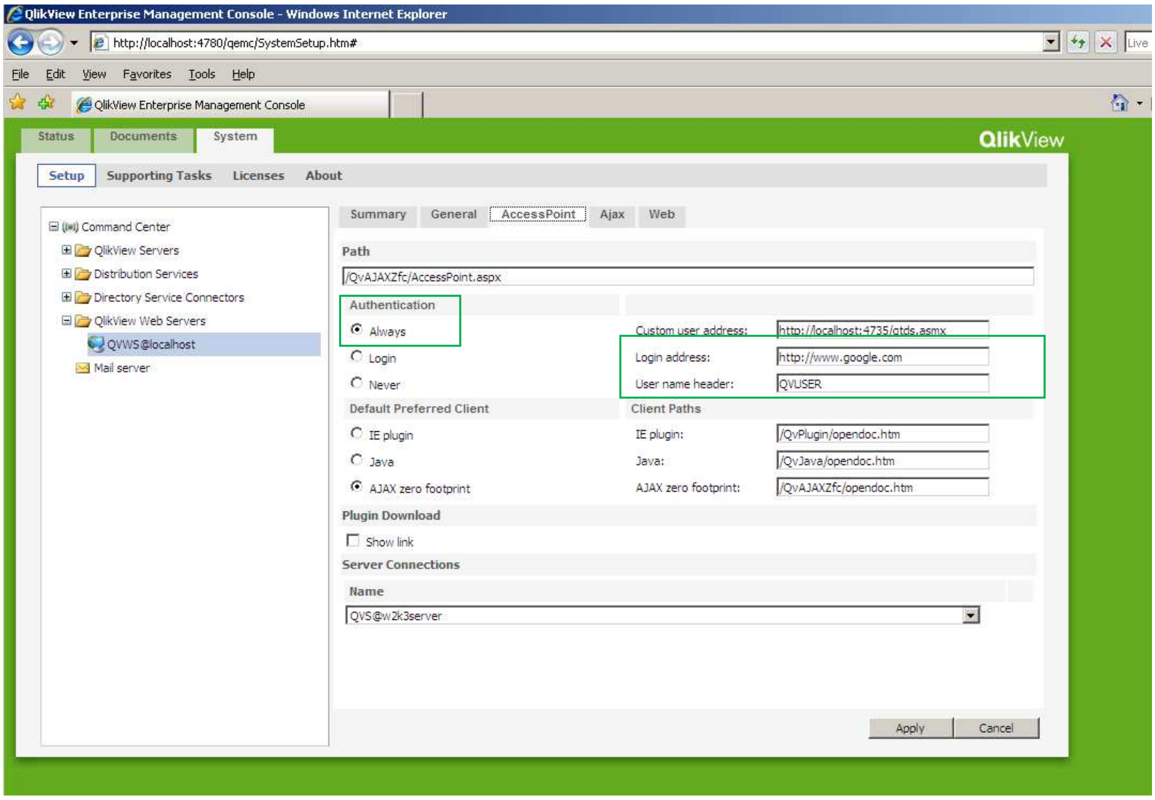
In the screenshot above we give the users „username“, „rva“ and „someuser“ access to the document „dms“.

## Configure Accesspoint

In the Enterprise Management Console go to „Qlikview Web Servers“ and select the web server. Go to “Accesspoint” and add to the field “User Name Header” the value “QVUSER”. This makes the Accesspoint to check for the HTTP-Header field.

You can utilize the field “Login address” to make a redirect to the specified page if no HTTP-Header field was found. This should be the URL of your login-page. For testing purposes set it to http://www.google.com.

Ensure that the Authentication is set to “Always”.



Path: /QvAJAXZfc/AccessPoint.aspx

Authentication

● Always

○ Login

○ Never

Custom user address: http://localhost:4735/qtds.asmx

Login address: http://www.google.com

User name header: QVUSER

Default Preferred Client

○ IE plugin

○ Java

● AJAX zero footprint

Client Paths

IE plugin: /QvPlugin/opendoc.htm

Java: /QvJava/opendoc.htm

AJAX zero footprint: /QvAJAXZfc/opendoc.htm

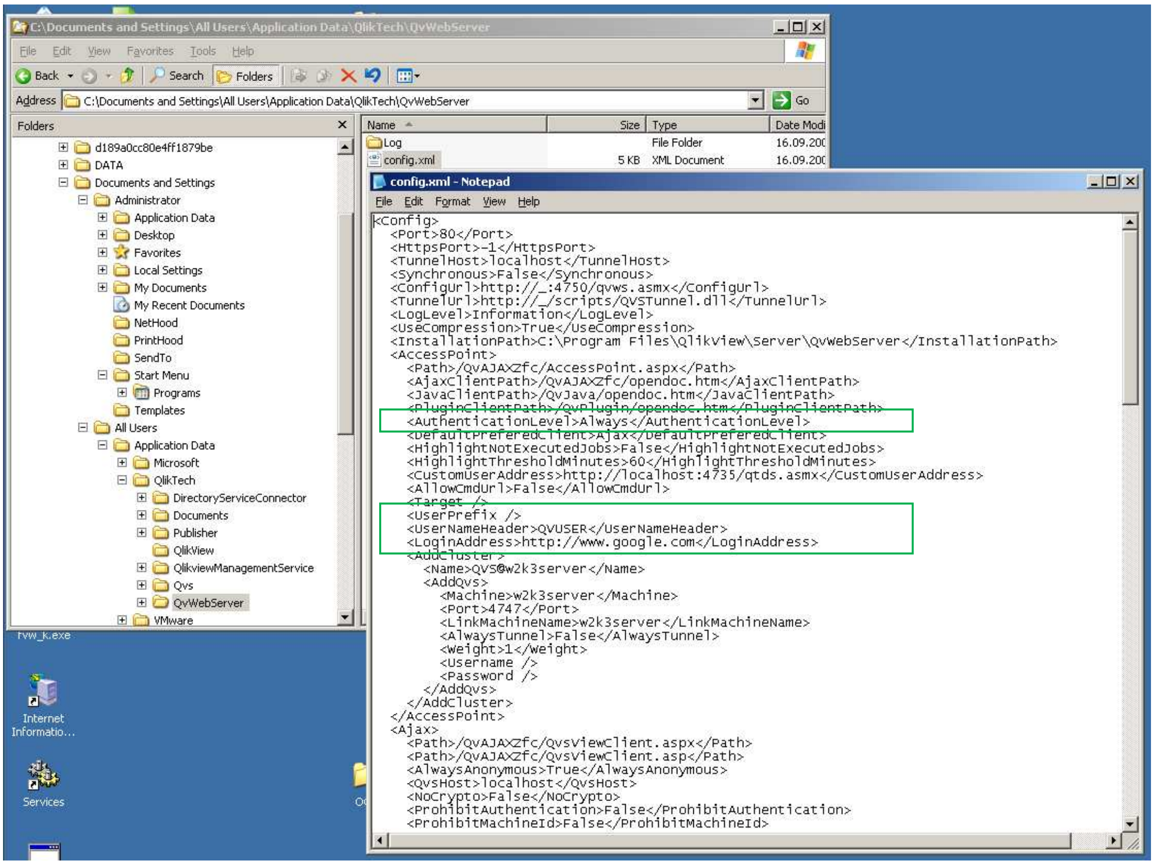
Plugin Download

□ Show link

Server Connections

Name: QVS@w2k3server

Double check the settings in the config file *C:\Documents and Settings\All Users\Application Data\QlikTech\QvWebServer\config.xml*. If you don’t want to use the default prefix “CUSTOM/” for all of your users remove it from the key <UserPrefix> .

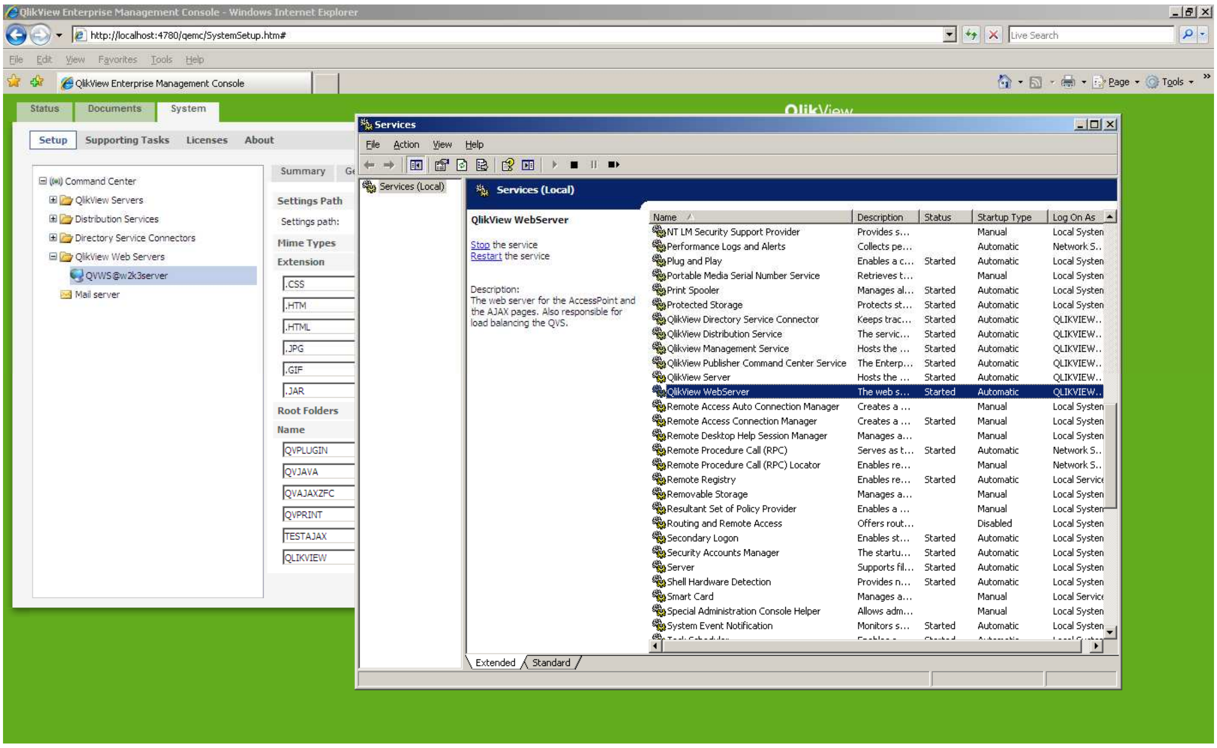


C:\Documents and Settings\All Users\Application Data\QlikTech\QvWebServer
config.xml - Notepad

```
<Config>
  <Port>80</Port>
  <HttpsPort>-1</HttpsPort>
  <TunnelHost>localhost</TunnelHost>
  <Synchronous>False</Synchronous>
  <ConfigUrl>http://_:4750/qvws.asmx</ConfigUrl>
  <TunnelUrl>http://_/scripts/QVSTunnel.dll</TunnelUrl>
  <LogLevel>Information</LogLevel>
  <UseCompression>True</UseCompression>
  <InstallationPath>C:\Program Files\QlikView\Server\QvWebServer</InstallationPath>
  <AccessPoint>
    <Path>/QvAJAXZfc/AccessPoint.aspx</Path>
    <AjaxClientPath>/QvAJAXZfc/opendoc.htm</AjaxClientPath>
    <JavaClientPath>/QvJava/opendoc.htm</JavaClientPath>
    <PluginClientPath>/QvPlugin/opendoc.htm</PluginClientPath>
    <AuthenticationLevel>Always</AuthenticationLevel>
    <DefaultPreferedClient>Ajax</DefaultPreferedClient>
    <HighlightNotExecutedJobs>False</HighlightNotExecutedJobs>
    <HighlightThresholdMinutes>60</HighlightThresholdMinutes>
    <CustomUserAddress>http://localhost:4735/qtds.asmx</CustomUserAddress>
    <AllowCmdUrl>False</AllowCmdUrl>
    <Target />
    <UserPrefix />
    <UserNameHeader>QVUSER</UserNameHeader>
    <LoginAddress>http://www.google.com</LoginAddress>
    <AddCluster>
      <Name>QVS@w2k3server</Name>
      <AddQvs>
        <Machine>w2k3server</Machine>
        <Port>4747</Port>
        <LinkMachineName>w2k3server</LinkMachineName>
        <AlwaysTunnel>False</AlwaysTunnel>
        <Weight>1</Weight>
        <Username />
        <Password />
      </AddQvs>
    </AddCluster>
  </AccessPoint>
  <Ajax>
    <Path>/QvAJAXZfc/QvsViewClient.aspx</Path>
    <Path>/QvAJAXZfc/QvsViewClient.asp</Path>
    <AlwaysAnonymous>True</AlwaysAnonymous>
    <QvsHost>localhost</QvsHost>
    <NoCrypto>False</NoCrypto>
    <ProhibitAuthentication>False</ProhibitAuthentication>
    <ProhibitMachineId>False</ProhibitMachineId>
```

## Stop QlikView WebServer

As we want to utilize IIS in our scenario, stop the service “QlikView Web Server“. You may want to set the “Startup Type” of the service to “Manual”.



QlikView WebServer

Stop the service
Restart the service

Description:
The web server for the AccessPoint and the AJAX pages. Also responsible for load balancing the QVS.

| Name | Description | Status | Startup Type | Log On As |
|---|---|---|---|---|
| NT LM Security Support Provider | Provides s... | | Manual | Local Systen |
| Performance Logs and Alerts | Collects pe... | | Automatic | Network S.. |
| Plug and Play | Enables a c... | Started | Automatic | Local Systen |
| Portable Media Serial Number Service | Retrieves t... | | Manual | Local Systen |
| Print Spooler | Manages al... | Started | Automatic | Local Systen |
| Protected Storage | Protects st... | Started | Automatic | Local Systen |
| QlikView Directory Service Connector | Keeps trac... | Started | Automatic | QLIKVIEW.. |
| QlikView Distribution Service | The servic... | Started | Automatic | QLIKVIEW.. |
| Qlikview Management Service | Hosts the ... | Started | Automatic | QLIKVIEW.. |
| QlikView Publisher Command Center Service | The Enterp... | Started | Automatic | QLIKVIEW.. |
| QlikView Server | Hosts the ... | Started | Automatic | QLIKVIEW.. |
| QlikView WebServer | The web s... | Started | Automatic | QLIKVIEW.. |
| Remote Access Auto Connection Manager | Creates a ... | | Manual | Local Systen |
| Remote Access Connection Manager | Creates a ... | Started | Manual | Local Systen |
| Remote Desktop Help Session Manager | Manages a... | | Manual | Local Systen |
| Remote Procedure Call (RPC) | Serves as t... | Started | Automatic | Network S.. |
| Remote Procedure Call (RPC) Locator | Enables re... | | Manual | Network S.. |
| Remote Registry | Enables re... | Started | Automatic | Local Service |
| Removable Storage | Manages a... | | Manual | Local Systen |
| Resultant Set of Policy Provider | Enables a ... | | Manual | Local Systen |
| Routing and Remote Access | Offers rout... | | Disabled | Local Systen |
| Secondary Logon | Enables st... | Started | Automatic | Local Systen |
| Security Accounts Manager | The startu... | Started | Automatic | Local Systen |
| Server | Supports fil... | Started | Automatic | Local Systen |
| Shell Hardware Detection | Provides n... | Started | Automatic | Local Systen |
| Smart Card | Manages a... | | Manual | Local Service |
| Special Administration Console Helper | Allows adm... | | Manual | Local Systen |
| System Event Notification | Monitors s... | Started | Automatic | Local Systen |

# Configuration IIS

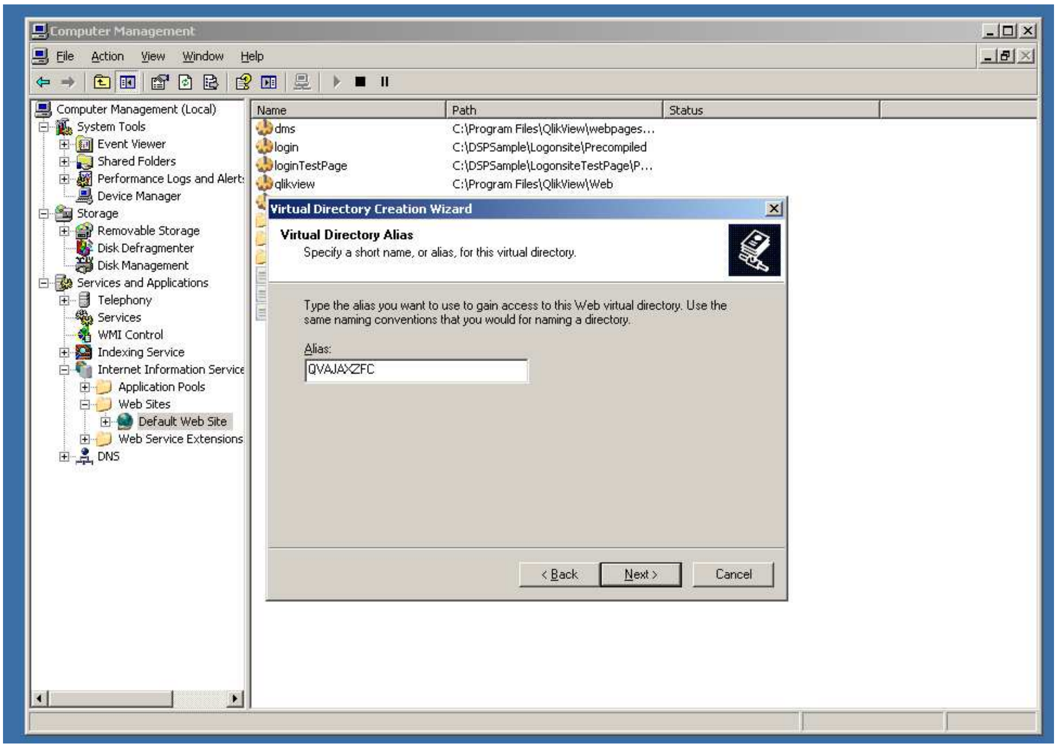
## Create Virtual Directories

To configure IIS we have to add the virtual directories previously hosted by the QlikView WebServer. See your exact directory paths in *C:\Documents and Settings\All Users\Application Data\QlikTech\QvWebServer\config.xml.*

The default installation is:

| Virtual Directory | Path | Description |
|---|---|---|
| QVCLIENTS | C:\Program Files\QlikView\Server\QvClients | Client configuration |
| QVPLUGIN | C:\Program Files\QlikView\Server\QvClients\QvPlugin | Functionality ActiveX-plugin |
| QVAJAXZFC | C:\Program Files\QlikView\Server\QvClients\QvAjaxZfc | AJAX functionality, Ticketing |
| QLIKVIEW | C:\Program Files\QlikView\Web | The Accesspoint |
| QVJAVA | C:\Program Files\QlikView\Server\QvClients\QvJava | Functionality Java Client |
| QVPRINT | C:\Documents and Settings\All Users\Application Data\QlikTech\Qvs\QvPrint\ | Print folder for AJAX, JAVA |

The following screenshots show an example how to configure QVAJAXZFC in IIS. Repeat it for all virtual directories.



| Name | Path | Status |
|---|---|---|
| dms | C:\Program Files\QlikView\webpages... | |
| login | C:\DSPSample\Logonsite\Precompiled | |
| loginTestPage | C:\DSPSample\LogonsiteTestPage\P... | |
| qlikview | C:\Program Files\QlikView\Web | |

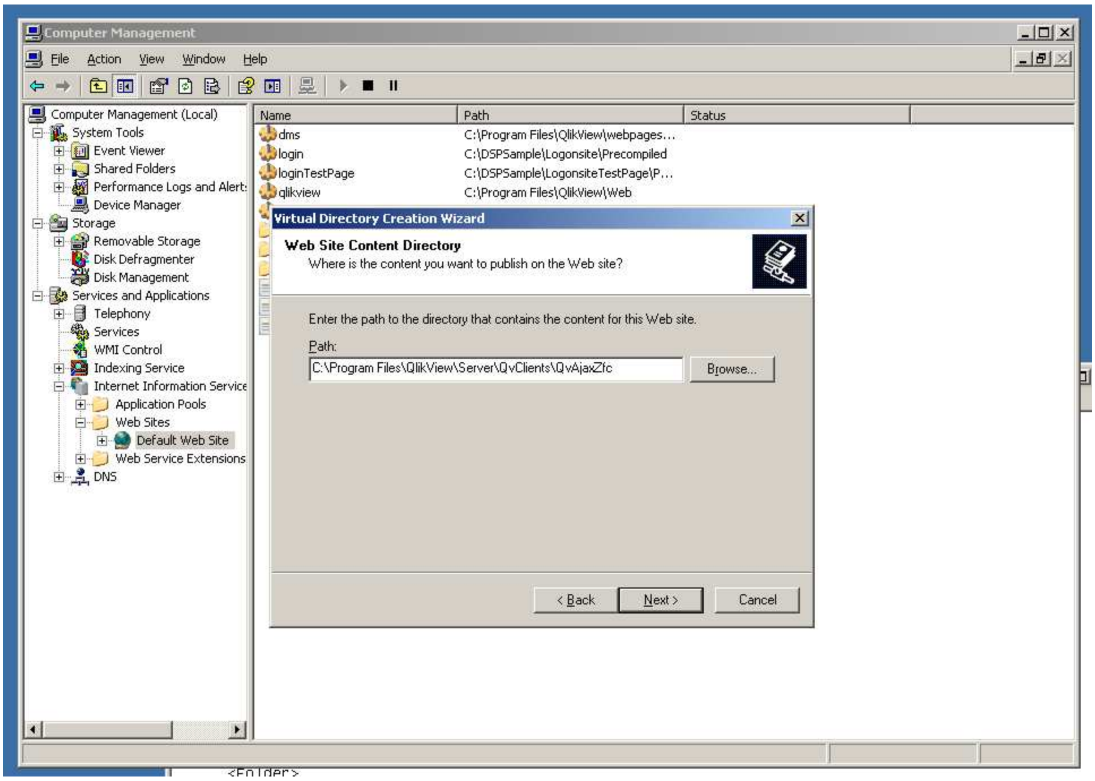
Virtual Directory Creation Wizard

**Virtual Directory Alias**

Specify a short name, or alias, for this virtual directory.

Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.

Alias: QVAJAXZFC



| Name | Path | Status |
|---|---|---|
| dms | C:\Program Files\QlikView\webpages… | |
| login | C:\DSPSample\Logonsite\Precompiled | |
| loginTestPage | C:\DSPSample\LogonsiteTestPage\P… | |
| qlikview | C:\Program Files\QlikView\Web | |

Virtual Directory Creation Wizard

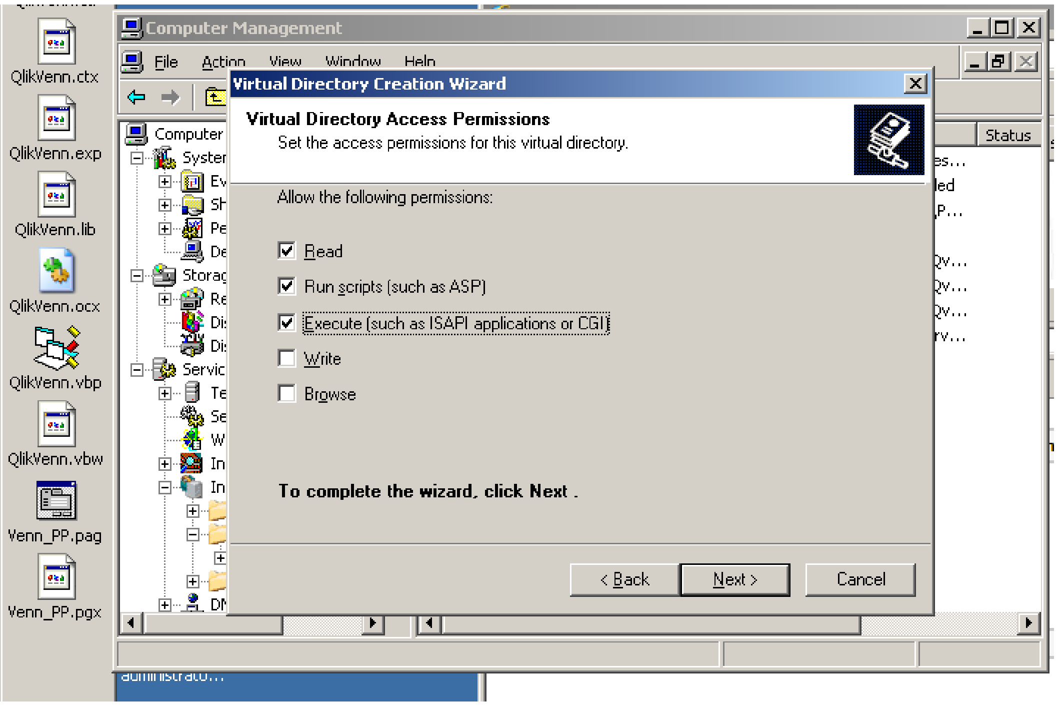
**Web Site Content Directory**

Where is the content you want to publish on the Web site?

Enter the path to the directory that contains the content for this Web site.

Path:

C:\Program Files\QlikView\Server\QvClients\QvAjaxZfc



Virtual Directory Creation Wizard

**Virtual Directory Access Permissions**

Set the access permissions for this virtual directory.

Allow the following permissions:

☑ Read

☑ Run scripts (such as ASP)

☑ Execute (such as ISAPI applications or CGI)

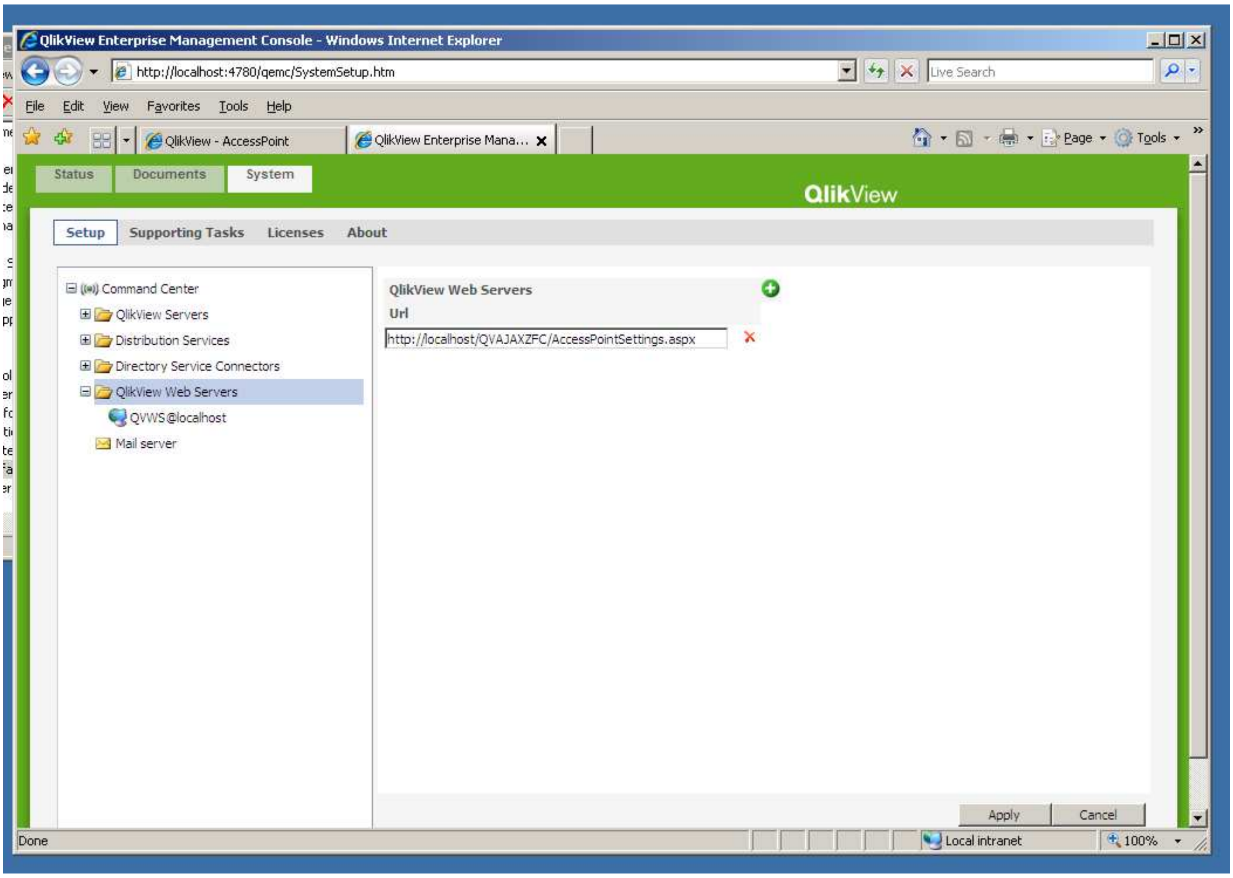
☐ Write

☐ Browse

**To complete the wizard, click Next .**

## Configure QlikView Server to use IIS

To make Qlikview aware of using IIS open the “Enterprise Management Console”. Go to “System|Setup|QlikView Web Servers”. Remove the old entry, and add a new URL http://localhost/QVAJAXZFC/AccessPointSettings.aspx. Press “Apply”.



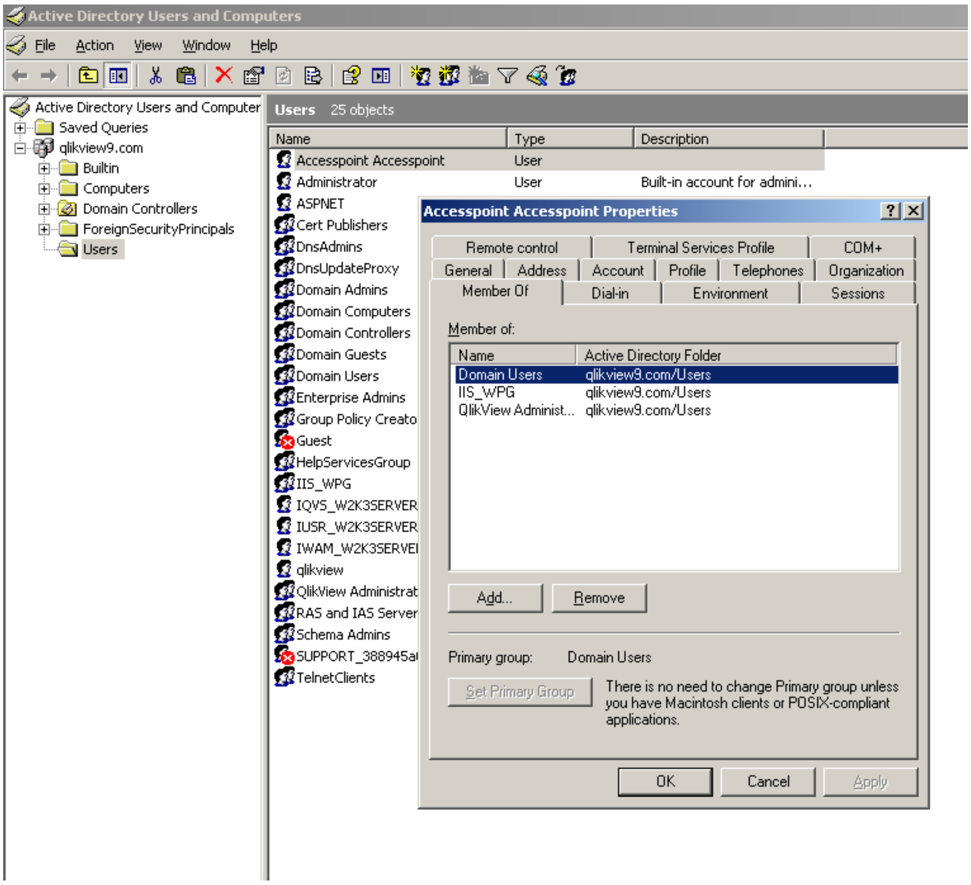
QlikView Enterprise Management Console - Windows Internet Explorer
http://localhost:4780/qemc/SystemSetup.htm
Live Search
File Edit View Favorites Tools Help
QlikView - AccessPoint
QlikView Enterprise Mana...
Page Tools
Status Documents System
QlikView
Setup Supporting Tasks Licenses About
Command Center
QlikView Servers
Distribution Services
Directory Service Connectors
QlikView Web Servers
QVWS@localhost
Mail server
QlikView Web Servers
Url
Apply Cancel
Done
Local intranet
100%

http://localhost/QVAJAXZFC/AccessPointSettings.aspx

## Create user for Application Pool

In DMS Mode a ticketing process is in place to allow users to access an application. This ticket is passed over by the QlikView Server when requested by a “QlikView administrator”. Therefore we need a user that is allowed to request such a ticket.

Create a new user “Accesspoint” that is member of the group “QlikView Administrators” and is allowed to run an IIS application pool (typically the user needs to be a member of the group “IIS_WFG” for that).



| Name | Type | Description |
|---|---|---|
| Accesspoint Accesspoint | User | |
| Administrator | User | Built-in account for admini... |
| ASPNET | | |
| Cert Publishers | | |
| DnsAdmins | | |
| DnsUpdateProxy | | |
| Domain Admins | | |
| Domain Computers | | |
| Domain Controllers | | |
| Domain Guests | | |
| Domain Users | | |
| Enterprise Admins | | |
| Group Policy Creato | | |
| Guest | | |
| HelpServicesGroup | | |
| IIS_WPG | | |
| IQVS_W2K3SERVER | | |
| IUSR_W2K3SERVER | | |
| IWAM_W2K3SERVEI | | |
| qlikview | | |
| QlikView Administrat | | |
| RAS and IAS Server | | |
| Schema Admins | | |
| SUPPORT_388945a | | |
| TelnetClients | | |

Member of:

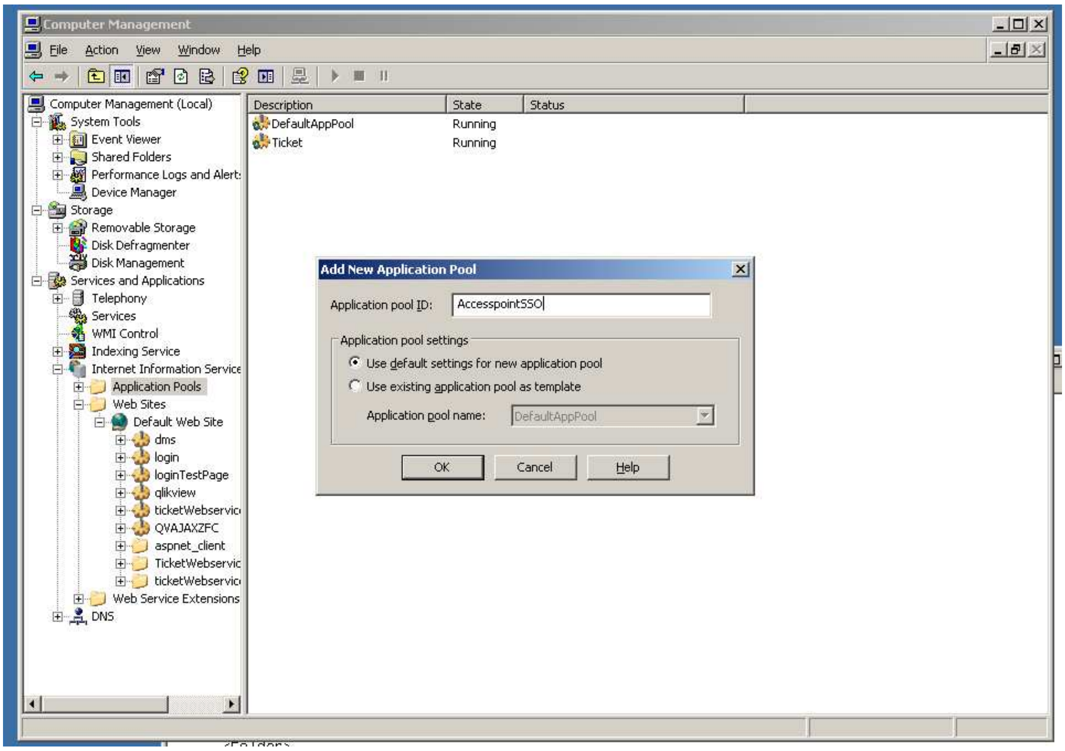
| Name | Active Directory Folder |
|---|---|
| Domain Users | qlikview9.com/Users |
| IIS_WPG | qlikview9.com/Users |
| QlikView Administ... | qlikview9.com/Users |

Primary group: Domain Users

There is no need to change Primary group unless you have Macintosh clients or POSIX-compliant applications.

## Setup Application Pool

Go back to IIS and create a new application pool „AccesspointSSO“. Go to “Properties|Identity” and assign the newly created user to run the application pool.



| Description | State | Status |
|---|---|---|
| DefaultAppPool | Running | |
| Ticket | Running | |

Add New Application Pool

Application pool ID: AccesspointSSO

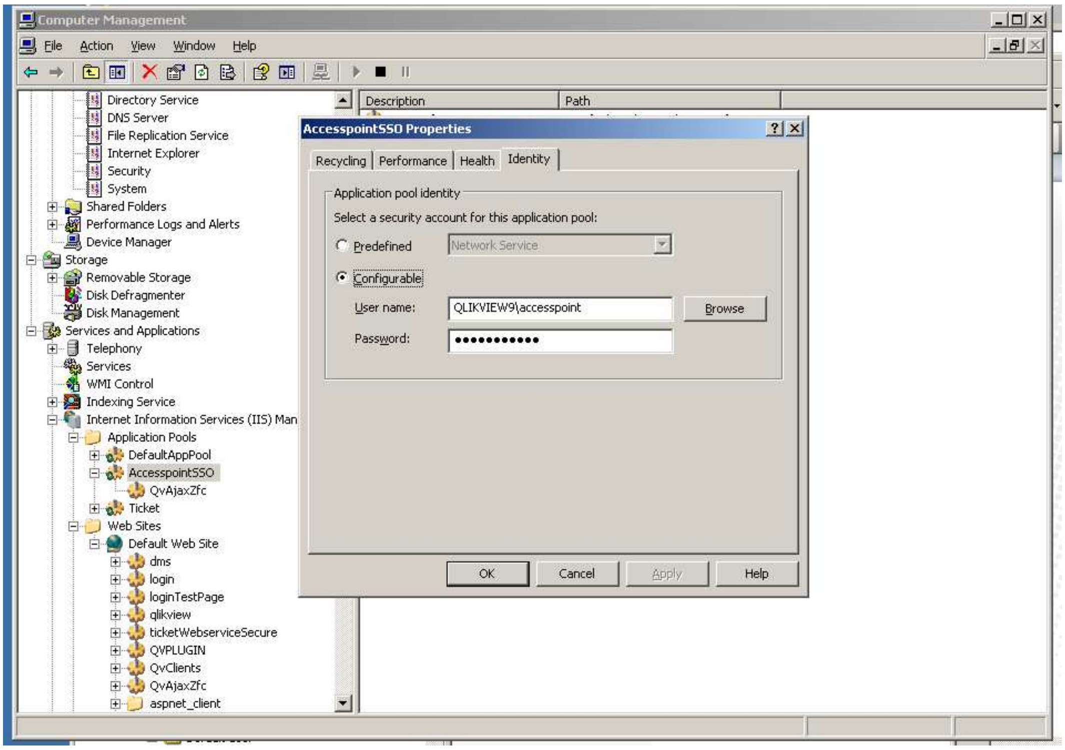
Application pool settings

● Use default settings for new application pool

○ Use existing application pool as template

Application pool name: DefaultAppPool

OK Cancel Help



AccesspointSSO Properties

Recycling | Performance | Health | Identity

Application pool identity

Select a security account for this application pool:

○ Predefined Network Service

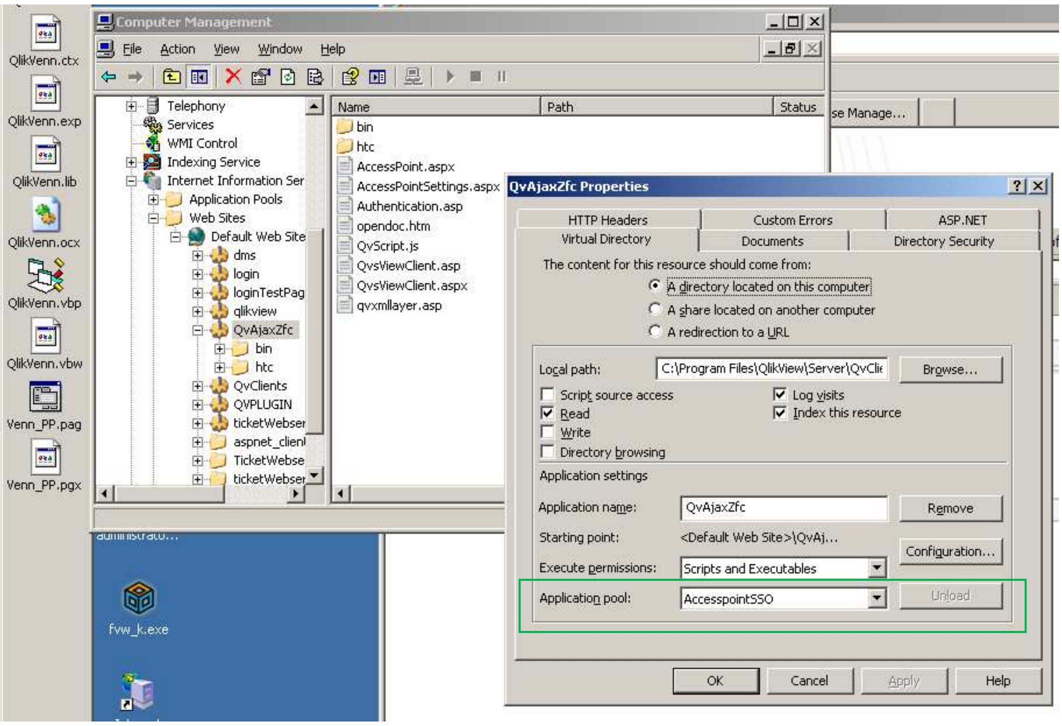
● Configurable

User name: QLIKVIEW9\accesspoint Browse

Password: ••••••••••••

OK Cancel Apply Help

To allow IIS to retrieve the ticket, you now have to assign the application pool to the virtual directory „QVAjaxZfc“. Select the virtual directory, go to “Properties|Application Pool” and select “AccesspointSSO” from the dropdown.



The content for this resource should come from:

● A directory located on this computer
○ A share located on another computer
○ A redirection to a URL

Local path: C:\Program Files\QlikView\Server\QvClie

□ Script source access
☑ Read
□ Write
□ Directory browsing
☑ Log visits
☑ Index this resource

Application settings

Application name: QvAjaxZfc

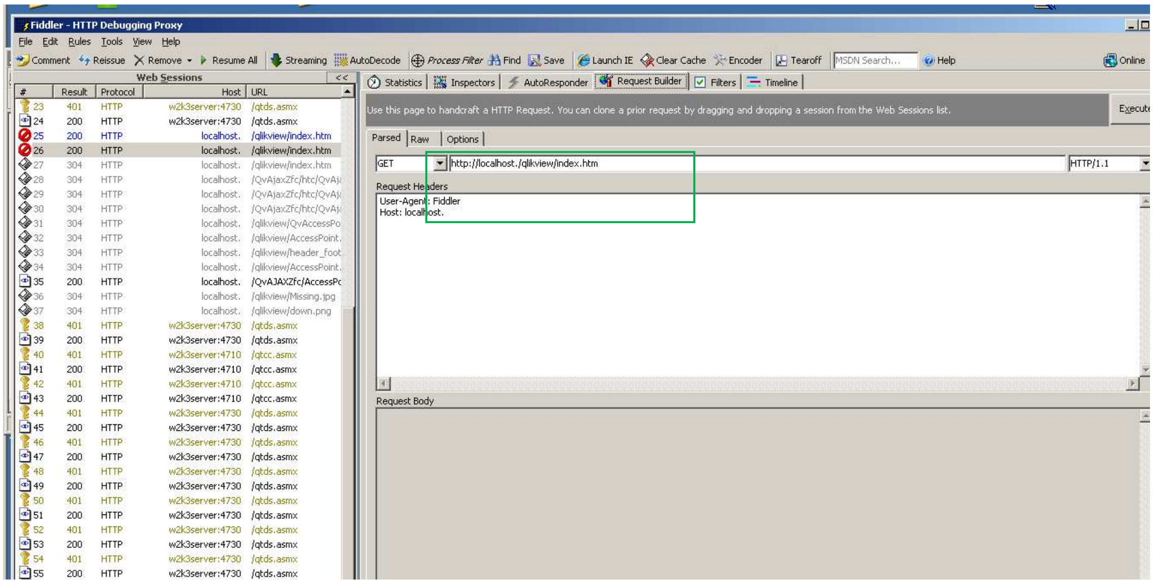
Starting point: <Default Web Site>\QvAj...

Execute permissions: Scripts and Executables

Application pool: AccesspointSSO

## User Fiddler to test configuration

Optionally you can use Fiddler (http://www.fiddler2.com/fiddler2/ ) to test your configuration right now. Use the “Request Builder” and enter the URL http://localhost./qlikview/index.htm.


Fiddler - HTTP Debugging Proxy
File Edit Rules Tools View Help
Comment Reissue Remove Resume All Streaming AutoDecode Process Filter Find Save Launch IE Clear Cache Encoder Tearoff MSDN Search... Help Online
Web Sessions
Statistics Inspectors AutoResponder Request Builder Filters Timeline
Execute
Parsed Raw Options

| # | Result | Protocol | Host | URL |
|---|---|---|---|---|
| 23 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 24 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 25 | 200 | HTTP | localhost. | /qlikview/index.htm |
| 26 | 200 | HTTP | localhost. | /qlikview/index.htm |
| 27 | 304 | HTTP | localhost. | /qlikview/index.htm |
| 28 | 304 | HTTP | localhost. | /QvAjaxZfc/htc/QvAj |
| 29 | 304 | HTTP | localhost. | /QvAjaxZfc/htc/QvAj |
| 30 | 304 | HTTP | localhost. | /QvAjaxZfc/htc/QvAj |
| 31 | 304 | HTTP | localhost. | /qlikview/QvAccessPo |
| 32 | 304 | HTTP | localhost. | /qlikview/AccessPoint. |
| 33 | 304 | HTTP | localhost. | /qlikview/header_foot |
| 34 | 304 | HTTP | localhost. | /qlikview/AccessPoint. |
| 35 | 200 | HTTP | localhost. | /QvAJAXZfc/AccessPc |
| 36 | 304 | HTTP | localhost. | /qlikview/Missing.jpg |
| 37 | 304 | HTTP | localhost. | /qlikview/down.png |
| 38 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 39 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 40 | 401 | HTTP | w2k3server:4710 | /qtcc.asmx |
| 41 | 200 | HTTP | w2k3server:4710 | /qtcc.asmx |
| 42 | 401 | HTTP | w2k3server:4710 | /qtcc.asmx |
| 43 | 200 | HTTP | w2k3server:4710 | /qtcc.asmx |
| 44 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 45 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 46 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 47 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 48 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 49 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 50 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 51 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 52 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 53 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 54 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 55 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |

Use this page to handcraft a HTTP Request. You can clone a prior request by dragging and dropping a session from the Web Sessions list.

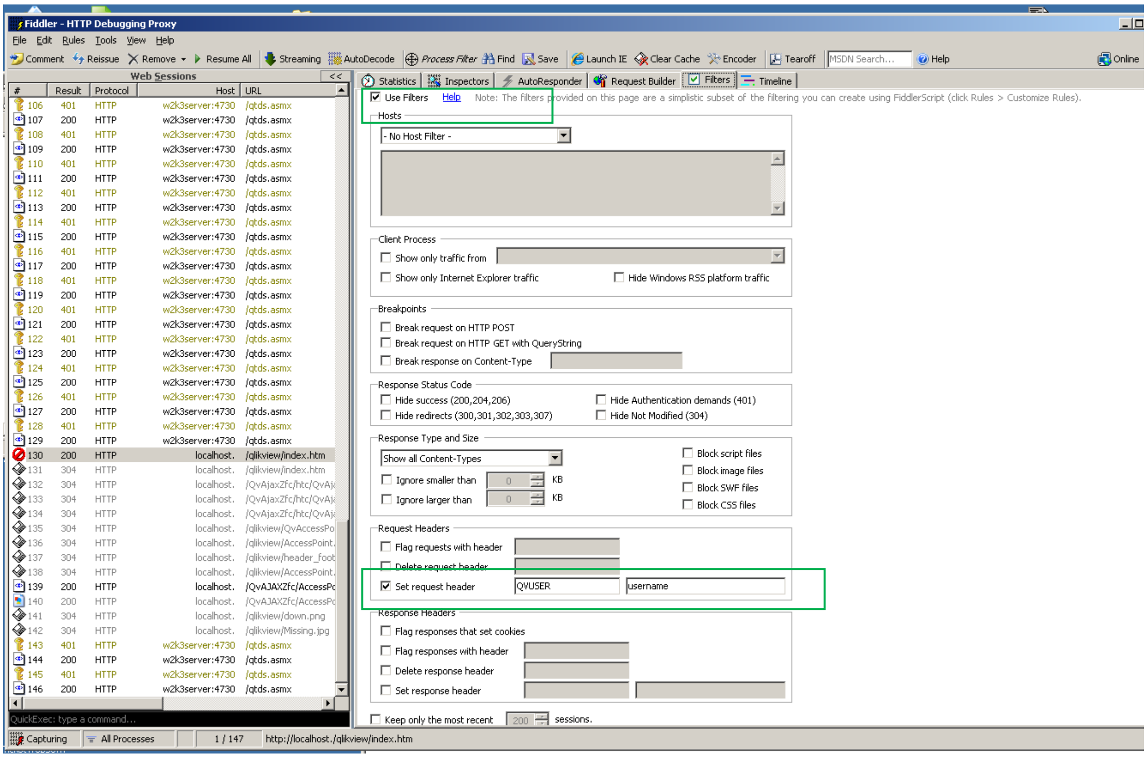
GET http://localhost./qlikview/index.htm HTTP/1.1

Request Headers

```
User-Agent: Fiddler
Host: localhost.
```

Request Body

Go to tab “Filters”. Check the checkbox “Use Filters”. Scroll down and add under “Request Headers|Set Request Header” the value “QVUSER” with “username”.


Fiddler - HTTP Debugging Proxy
File Edit Rules Tools View Help
Comment Reissue Remove Resume All Streaming AutoDecode Process Filter Find Save Launch IE Clear Cache Encoder Tearoff MSDN Search... Help Online
Web Sessions
Statistics Inspectors AutoResponder Request Builder Filters Timeline
Help

| # | Result | Protocol | Host | URL |
|---|---|---|---|---|
| 106 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 107 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 108 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 109 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 110 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 111 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 112 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 113 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 114 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 115 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 116 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 117 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 118 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 119 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 120 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 121 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 122 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 123 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 124 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 125 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 126 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 127 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 128 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 129 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 130 | 200 | HTTP | localhost. | /qlikview/index.htm |
| 131 | 304 | HTTP | localhost. | /qlikview/index.htm |
| 132 | 304 | HTTP | localhost. | /QvAjaxZfc/htc/QvAj |
| 133 | 304 | HTTP | localhost. | /QvAjaxZfc/htc/QvAj |
| 134 | 304 | HTTP | localhost. | /QvAjaxZfc/htc/QvAj |
| 135 | 304 | HTTP | localhost. | /qlikview/QvAccessPo |
| 136 | 304 | HTTP | localhost. | /qlikview/AccessPoint. |
| 137 | 304 | HTTP | localhost. | /qlikview/header_foot |
| 138 | 304 | HTTP | localhost. | /qlikview/AccessPoint. |
| 139 | 200 | HTTP | localhost. | /QvAJAXZfc/AccessPc |
| 140 | 200 | HTTP | localhost. | /QvAJAXZfc/AccessPc |
| 141 | 304 | HTTP | localhost. | /qlikview/down.png |
| 142 | 304 | HTTP | localhost. | /qlikview/Missing.jpg |
| 143 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 144 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 145 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 146 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |

QuickExec: type a command...

Capturing | All Processes | 1 / 147 | http://localhost./qlikview/index.htm

☑ Use Filters — Note: The filters provided on this page are a simplistic subset of the filtering you can create using FiddlerScript (click Rules > Customize Rules).

Hosts
- No Host Filter -

Client Process
☐ Show only traffic from
☐ Show only Internet Explorer traffic ☐ Hide Windows RSS platform traffic

Breakpoints
☐ Break request on HTTP POST
☐ Break request on HTTP GET with QueryString
☐ Break response on Content-Type

Response Status Code
☐ Hide success (200,204,206) ☐ Hide Authentication demands (401)
☐ Hide redirects (300,301,302,303,307) ☐ Hide Not Modified (304)

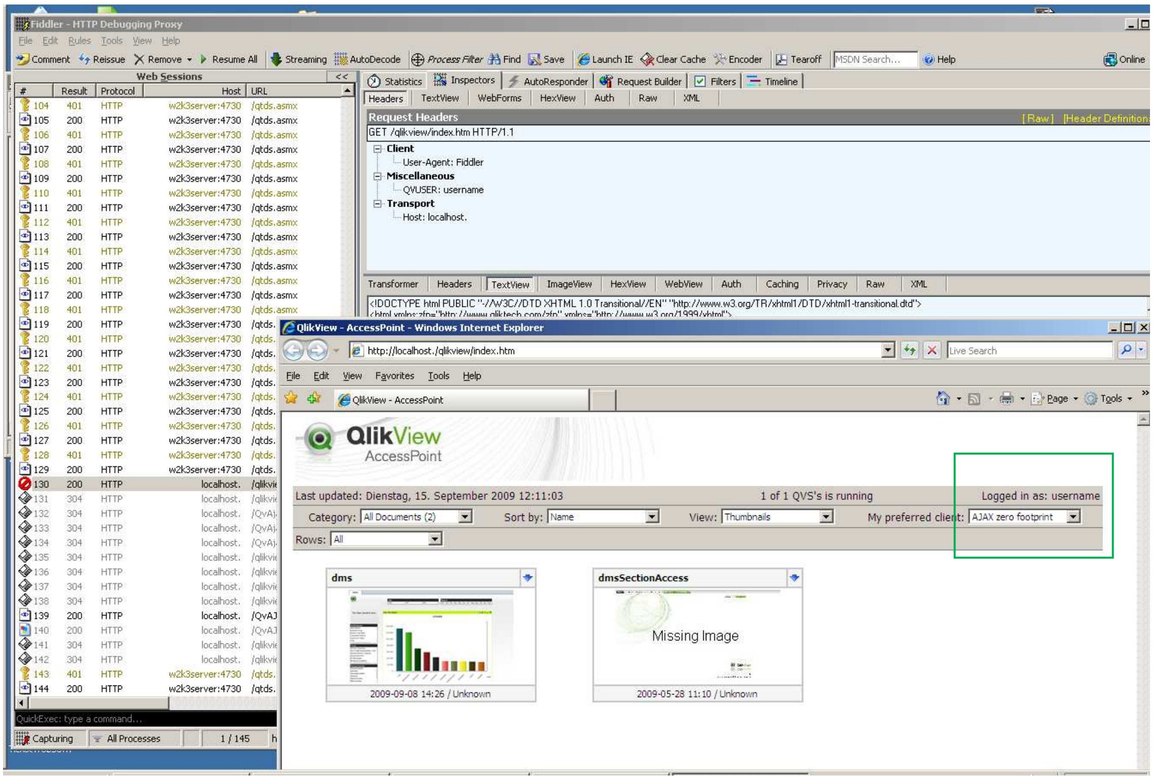
Response Type and Size
Show all Content-Types
☐ Ignore smaller than 0 KB
☐ Ignore larger than 0 KB
☐ Block script files
☐ Block image files
☐ Block SWF files
☐ Block CSS files

Request Headers
☐ Flag requests with header
☐ Delete request header
☑ Set request header QVUSER username

Response Headers
☐ Flag responses that set cookies
☐ Flag responses with header
☐ Delete response header
☐ Set response header

☐ Keep only the most recent 200 sessions.

Go back to “Request Builder” and press the button “Execute”. Fiddler now should execute the HTTP-request successfully. Select the line on the left side and click the button “Launch IE”. You now should see the user “username” logged into the Accesspoint.


Fiddler - HTTP Debugging Proxy
File Edit Rules Tools View Help
Comment Reissue Remove Resume All Streaming AutoDecode Process Filter Find Save Launch IE Clear Cache Encoder Tearoff MSDN Search... Help Online
Web Sessions
Statistics Inspectors AutoResponder Request Builder Filters Timeline
Headers TextView WebForms HexView Auth Raw XML
[ Raw ] [Header Definition
Transformer Headers TextView ImageView HexView WebView Auth Caching Privacy Raw XML
QuickExec: type a command...
Capturing All Processes 1 / 145
QlikView - AccessPoint - Windows Internet Explorer
Live Search
File Edit View Favorites Tools Help
QlikView - AccessPoint
Page Tools
QlikView
AccessPoint
Missing Image

| # | Result | Protocol | Host | URL |
|---|---|---|---|---|
| 104 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 105 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 106 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 107 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 108 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 109 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 110 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 111 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 112 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 113 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 114 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 115 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 116 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 117 | 200 | HTTP | w2k3server:4730 | /qtds.asmx |
| 118 | 401 | HTTP | w2k3server:4730 | /qtds.asmx |
| 119 | 200 | HTTP | w2k3server:4730 | /qtds. |
| 120 | 401 | HTTP | w2k3server:4730 | /qtds. |
| 121 | 200 | HTTP | w2k3server:4730 | /qtds. |
| 122 | 401 | HTTP | w2k3server:4730 | /qtds. |
| 123 | 200 | HTTP | w2k3server:4730 | /qtds. |
| 124 | 401 | HTTP | w2k3server:4730 | /qtds. |
| 125 | 200 | HTTP | w2k3server:4730 | /qtds. |
| 126 | 401 | HTTP | w2k3server:4730 | /qtds. |
| 127 | 200 | HTTP | w2k3server:4730 | /qtds. |
| 128 | 401 | HTTP | w2k3server:4730 | /qtds. |
| 129 | 200 | HTTP | w2k3server:4730 | /qtds. |
| 130 | 200 | HTTP | localhost. | /qlikvie |
| 131 | 304 | HTTP | localhost. | /qlikvie |
| 132 | 304 | HTTP | localhost. | /QvAj |
| 133 | 304 | HTTP | localhost. | /QvAj |
| 134 | 304 | HTTP | localhost. | /QvAj |
| 135 | 304 | HTTP | localhost. | /qlikvie |
| 136 | 304 | HTTP | localhost. | /qlikvie |
| 137 | 304 | HTTP | localhost. | /qlikvie |
| 138 | 304 | HTTP | localhost. | /qlikvie |
| 139 | 200 | HTTP | localhost. | /QvAJ |
| 140 | 200 | HTTP | localhost. | /QvAJ |
| 141 | 304 | HTTP | localhost. | /qlikvie |
| 142 | 304 | HTTP | localhost. | /qlikvie |
| 143 | 401 | HTTP | w2k3server:4730 | /qtds. |
| 144 | 200 | HTTP | w2k3server:4730 | /qtds. |

Request Headers

```
GET /qlikview/index.htm HTTP/1.1
⊟ Client
    User-Agent: Fiddler
⊟ Miscellaneous
    QVUSER: username
⊟ Transport
    Host: localhost.
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns:zfp="http://www.qliktech.com/zfp" xmlns="http://www.w3.org/1999/xhtml">
```

http://localhost./qlikview/index.htm

Last updated: Dienstag, 15. September 2009 12:11:03 1 of 1 QVS's is running Logged in as: username

Category: All Documents (2) Sort by: Name View: Thumbnails My preferred client: AJAX zero footprint

Rows: All

dms
2009-09-08 14:26 / Unknown

dmsSectionAccess
2009-05-28 11:10 / Unknown

## Configuration SSO-Example

As mentioned in the introduction this document has an example attached to mimic a single sign on scenario. All files and source codes can be found in the SSOSample.zip.

The logon site will handle the logon. The actual site will not check the password, but allow whatever username you type in there. In a real world scenario, password checks etc will have to be implemented.

The logon site will add a cookie to the user called QvCookie, containing the username in clear text. In a real world scenario this should be done using some kind of advanced ticket handling instead.

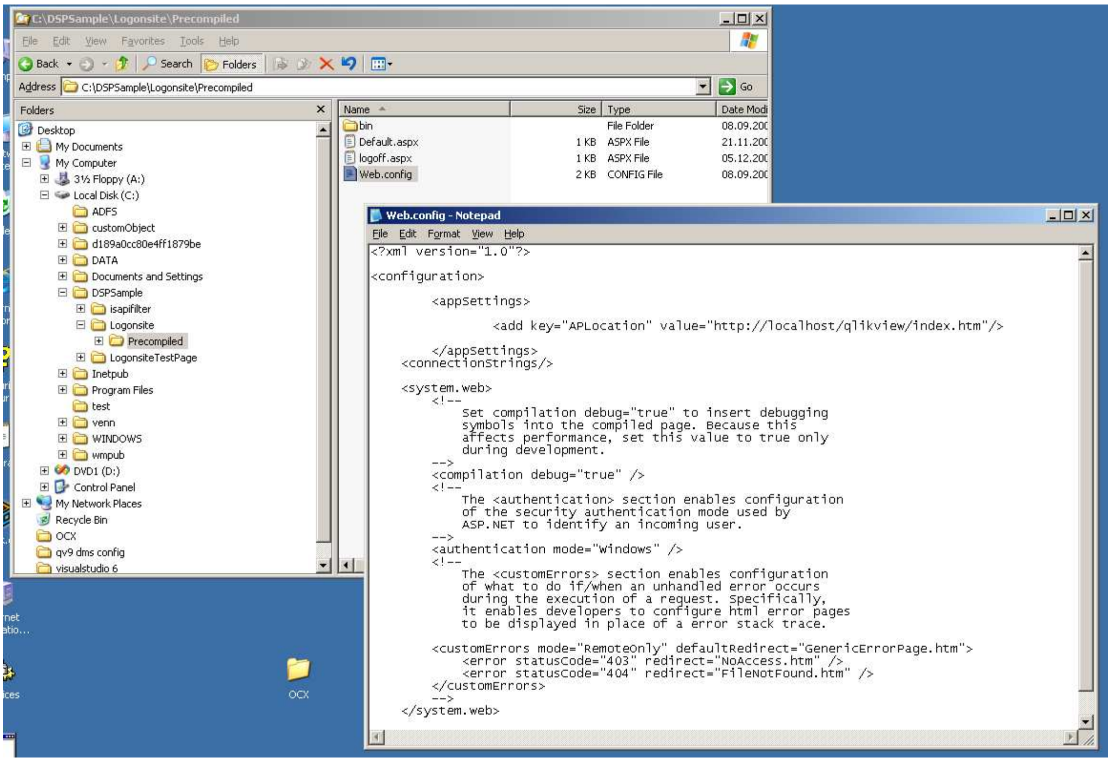
The user will be redirected to the Accesspoint. The ISAPI filter will now check for this cookie and if it is found, it will transfer the value to the header, named QVUSER.
The Accesspoint will trust this header and request files from the QlikView server for this user.

## Logon site

1. Save the logon site files to disk. Go to the IIS manager. Add a virtual directory to your logon site, pointing to the files' location, for example C*:\DSPSample\Logonsite\Precompiled*.

Assume this logon site is at
http://localhost/login/ and the Accesspoint is at http://localhost/qlikview/index.htm

2. If your Accesspoint is running on a different URL, edit *web.config* for the logon site.
Change the "APLocation" key.



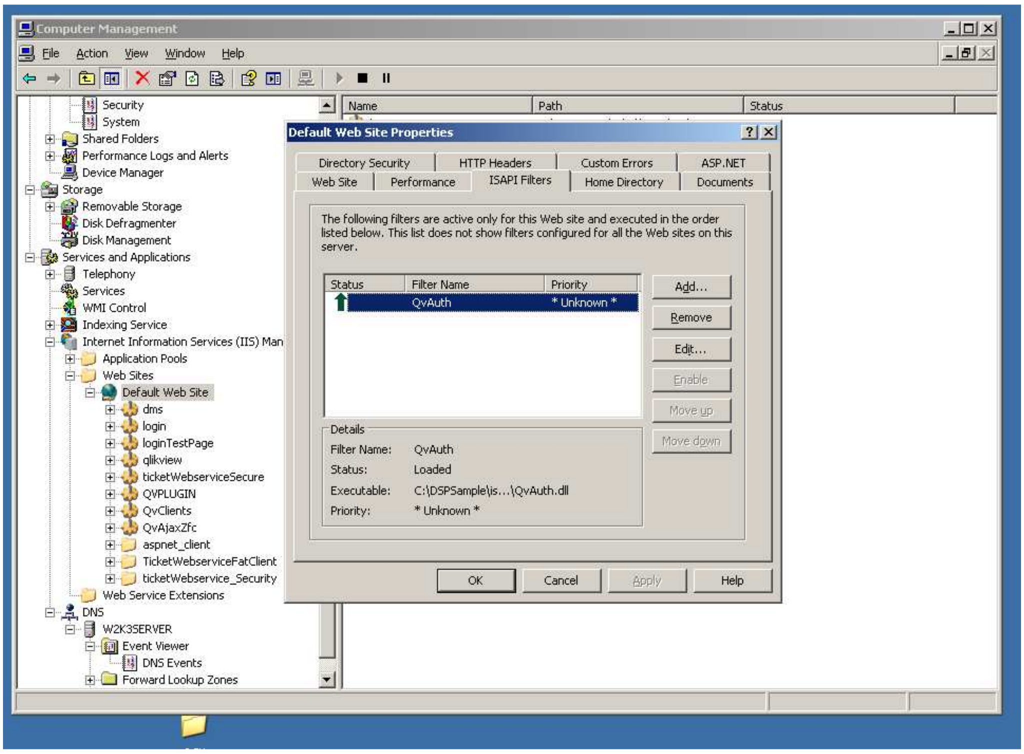
Address C:\DSPSample\Logonsite\Precompiled

| Name | Size | Type | Date Modi |
|---|---|---|---|
| bin | | File Folder | 08.09.200 |
| Default.aspx | 1 KB | ASPX File | 21.11.200 |
| logoff.aspx | 1 KB | ASPX File | 05.12.200 |
| Web.config | 2 KB | CONFIG File | 08.09.200 |

```
<?xml version="1.0"?>

<configuration>

        <appSettings>

                <add key="APLocation" value="http://localhost/qlikview/index.htm"/>

        </appSettings>
    <connectionStrings/>

    <system.web>
        <!--
            Set compilation debug="true" to insert debugging
            symbols into the compiled page. Because this
            affects performance, set this value to true only
            during development.
        -->
        <compilation debug="true" />
        <!--
            The <authentication> section enables configuration
            of the security authentication mode used by
            ASP.NET to identify an incoming user.
        -->
        <authentication mode="Windows" />
        <!--
            The <customErrors> section enables configuration
            of what to do if/when an unhandled error occurs
            during the execution of a request. Specifically,
            it enables developers to configure html error pages
            to be displayed in place of a error stack trace.

        <customErrors mode="RemoteOnly" defaultRedirect="GenericErrorPage.htm">
            <error statusCode="403" redirect="NoAccess.htm" />
            <error statusCode="404" redirect="FileNotFound.htm" />
        </customErrors>
        -->
    </system.web>
```

## Isapi-filter

For 32 bit versions select the file \isapifilter\x86\QvAuth.dll. For 64 bit versions select the file \isapifilter\x64QvAuth.dll. Start the IIS Manager.



The following filters are active only for this Web site and executed in the order listed below. This list does not show filters configured for all the Web sites on this server.

| Status | Filter Name | Priority |
|---|---|---|
| ⬆ | QvAuth | * Unknown * |

Details

Filter Name: QvAuth

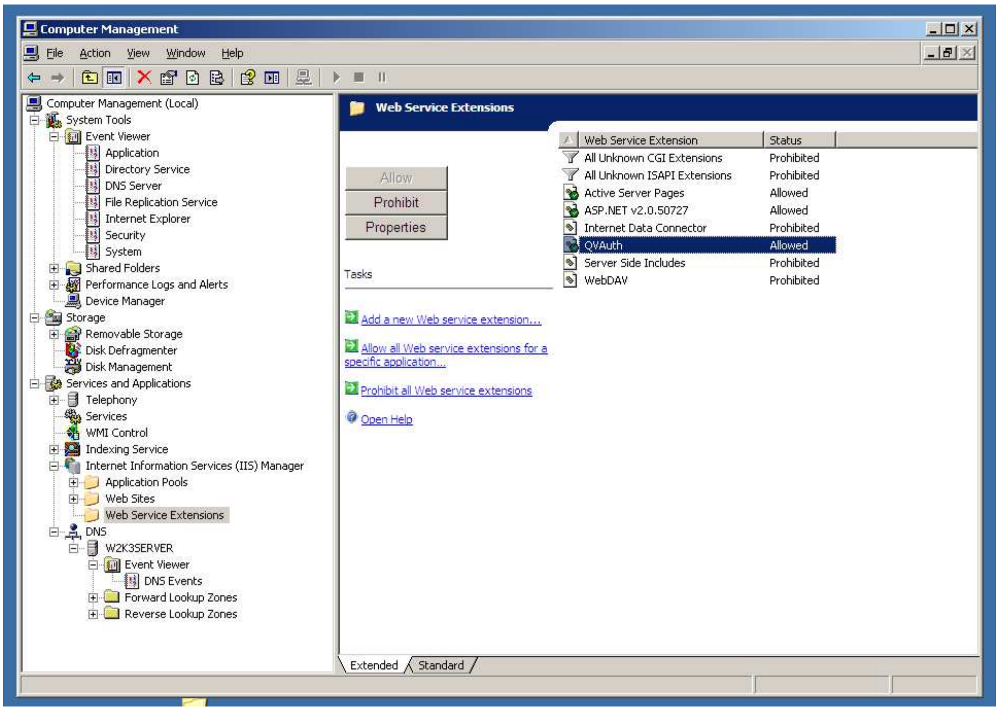
Status: Loaded

Executable: C:\DSPSample\is...\QvAuth.dll

Priority: * Unknown *

2. Select „Properties“ for the default website. Go to the ISAPI Filters tab and add QvAuth.dll. Name it appropriately. Click ok.

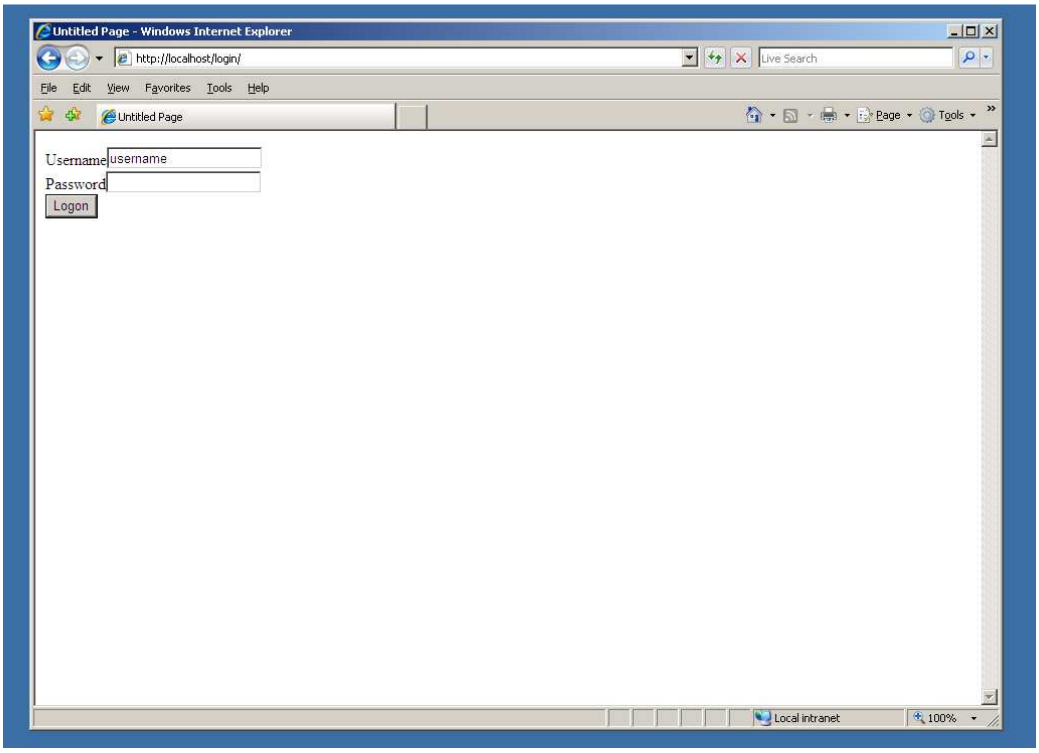
3. This step applies only to IIS version 6. Go to Web Service Extension. Right-click and select” Add New Web Service Extension… “. Set the extension name to something appropriate. Click Add and select the same .dll file. Set the extension status to “Allowed”.



| Web Service Extension | Status |
|---|---|
| All Unknown CGI Extensions | Prohibited |
| All Unknown ISAPI Extensions | Prohibited |
| Active Server Pages | Allowed |
| ASP.NET v2.0.50727 | Allowed |
| Internet Data Connector | Prohibited |
| QVAuth | Allowed |
| Server Side Includes | Prohibited |
| WebDAV | Prohibited |

## Test Example

Go to http://localhost/login/. Enter username "username" and click "Logon". The logon page now redirects to the Accesspoint and puts the username in a cookie. ISAPI-filter puts in the HTTP-Header field "QVUser". The Accesspoint then shows only the applications the user "username" is authorized to see.



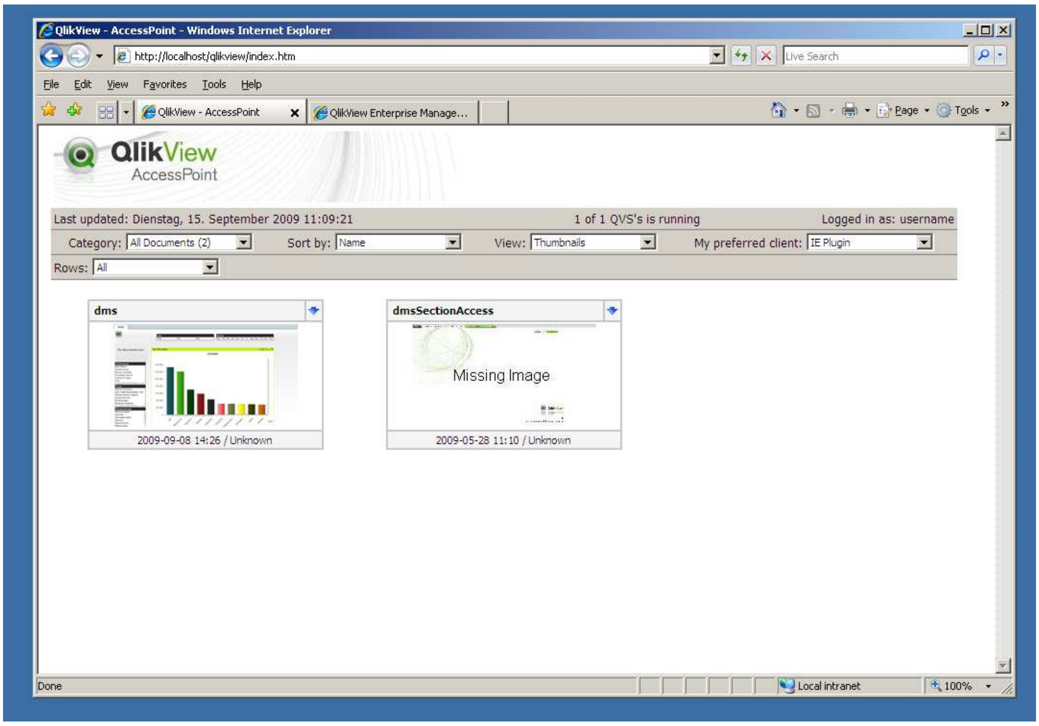
Untitled Page - Windows Internet Explorer

http://localhost/login/

Username: username

Password:

Logon



QlikView - AccessPoint - Windows Internet Explorer

http://localhost/qlikview/index.htm

Last updated: Dienstag, 15. September 2009 11:09:21 | 1 of 1 QVS's is running | Logged in as: username

Category: All Documents (2) | Sort by: Name | View: Thumbnails | My preferred client: IE Plugin

Rows: All

dms — 2009-09-08 14:26 / Unknown

dmsSectionAccess — Missing Image — 2009-05-28 11:10 / Unknown

Done