

QlikView Enterprise Solutions

Title

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"A best practice is a technique or methodology that, through experience and research, has proven to reliably lead to a desired result."

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%1Configuration

Overview

These settings are for QlikView Server version 10 in a Windows 2003/2008 environment. QlikView Server is installed in default catalogues. The QlikView Server and Publisher service users always need to have read and write access to the QVW and QVD files.

Service Account

Create a service account on the Active Directory domain or on your local computer. Remember that only an AD user will be able to read and set domain permissions in QlikView.

Multiple service accounts and/or multiple servers

It is possible to create different service accounts for each service. The permissions needed are tagged in the column *Service id* to the right.

The services can be spread out on different servers. Only the security settings for installed service need to be applied on each server, again see the *Service id* column to the right.

Security permissions

First check so that the service accounts have at least read access to the QlikView program folders.

| Local policy access | Member of local Groups: | Folder read and write access: | Registry read and write access: | Service id |
|--------------------------|----------------------------|--|---------------------------------|---------------|
| Log on as a | Users | %PROGRAMDATA%\OlikTech | HKLM\Software\OlikTech | A11 |
| service | | | | |
| | QlikView | %WINDIR%\Temp | | All |
| | Administrators | | | |
| | Cryptographic | %PROGRAMDATA%\Microsoft | | QVS |
| | Operators | Crypto\RSA\MachineKeys | | |
| | | C: or D: or E: (Not subfolders) | | QVS |
| | | Depending on where the QVS root | | |
| | | folder is located | | |
| | | QVS Root folder, mounted folders and log folder | | QVS |
| | | | | |
| | | %windir | HKLM\Software\Microsoft\ | QDS |
| | | %\system32\config\systemprofile\A | Windows NT\Current | |
| т | | ppData\Local\QIIkTech | version\Perilib | |
| Log on as a Batch ich | | | | 115 |
| Daten jou | | | | |

The service accounts needs also the following permissions on the server:

QlikView Server/Publisher services and ports

| Services: | Description: | Port: | Service |
|---|---|-------|---------|
| QlikView Server | Client server engine | 4747 | QVS |
| QlikView Management service | Backend service .Net application | 4780 | QMS |
| QlikView Management service | Backend service .Net application | 4799 | QMS |
| QlikView Distribution Service | Event scheduler. Optional .Net application | 4720 | QDS |
| QlikView Directory Service Connector | Directory connector Optional .Net application | 4730 | DSC |
| QlikView Web Service | Web Server Optional .Net application | 4750 | QVWS |

The created service users need to run the services below.

If services are placed on different servers,

the security rights have to be applied on all of them.

URL reservation for .NET

You need to create URL reservations for the service user in .NET on the servers running the QlikView Net applications. Use the *UrlAclModifier.exe* tool for this, found at:

http://urlreservation.codeplex.com/Release/ProjectReleases.aspx?ReleaseId=6646

| http://*:2869/ NT AUTHORITY\LOCAL SERVICE http://*:43/sra_(BA195980-CD494 NT AUTHORITY\SYSTEM, and NT http://*:5357/ NT AUTHORITY\LOCAL SERVICE a http://*:5358/ NT AUTHORITY\LOCAL SERVICE a http://*:5358/ NT AUTHORITY\LOCAL SERVICE a http://*:80/seman/ NT SERVICE\BITS http://*:80/remporary_Listen_Addres Everyone http://*:80/Temporary_Listen_Addres Everyone | http://*:2869/ NT AUTHORITY\LOCAL SERVICE http://*:443/sra_(BA195980-CD494 NT AUTHORITY\SYSTEM, and NT http://*:5357/ NT AUTHORITY\LOCAL SERVICE a http://*:5358/ NT AUTHORITY\LOCAL SERVICE a http://*:5358/ NT AUTHORITY\LOCAL SERVICE a http://*:2178/BITS-peer-caching/ NT SERVICE\BITS http://+:2178/BITS-peer-caching/ NT SERVICE\BITS http://+:80/wsman/ NT AUTHORITY\NETWORK SERVICE http://*:80/Temporary_Listen_Addres Everyone http://*:4780/ STH-W2K8-TEST\Restricted_user | | URL | Users |
|--|--|---|-------------------------------------|-------------------------------|
| https://+:443/sra_(BA195980-CD49-4 NT AUTHORITY\SYSTEM, and NT http://*:5357/ NT AUTHORITY\LOCAL SERVICE a https://*:5358/ NT AUTHORITY\LOCAL SERVICE a https://+:2178/BITS-peer-caching/ NT SERVICE\BITS http://+:80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+:80/Temporary_Listen_Addres Everyone | https://+:443/sra_(BA195980-CD49-4 NT AUTHORITY\SYSTEM, and NT http://:5357/ NT AUTHORITY\LOCAL SERVICE a https://:5358/ NT AUTHORITY\LOCAL SERVICE a https://:42178/BITS-peer-caching/ NT SERVICE\BITS http://+:80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+:80/msman/ NT AUTHORITY\NETWORK SERVICE http://+:80/Temporary_Listen_Addres Everyone http://*:4780/ STH-W2K8-TEST\Restricted_user | • | http://*:2869/ | NT AUTHORITY\LOCAL SERVICE |
| http://*5357/ NT AUTHORITY\LOCAL SERVICE a https://*5358/ NT AUTHORITY\LOCAL SERVICE a https://*2178/BITS-peer-caching/ NT SERVICE\BITS http://+2178/BITS-peer-caching/ NT SERVICE\BITS http://+80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+80/Temporary_Listen_Addres Everyone | http://*:5357/ NT AUTHORITY\LOCAL SERVICE a https://*:5358/ NT AUTHORITY\LOCAL SERVICE a https://+:2178/BITS-peer-caching/ NT SERVICE\BITS http://+:80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+:80/Temporary_Listen_Addres Everyone http://*:4780/ STH-W2K8-TEST\Restricted_user | | https://+:443/sra_{BA195980-CD49-4 | NT AUTHORITY\SYSTEM, and NT |
| https://*.5358/ NT AUTHORITY\LOCAL SERVICE a https://+.2178/BITS-peer-caching/ NT SERVICE\BITS http://+.80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+.80/Temporary_Listen_Addres Everyone um_if*/doc) CPUrporary_Cisten_Addres | https://*.5358/ NT AUTHORITY\LOCAL SERVICE a https://*.2178/BITS-peer-caching/ NT SERVICE\BITS http://+:80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+:80/Temporary_Listen_Addres Everyone http://*:4780/ STH-W2K8-TEST\Restricted_user | | http://*:5357/ | NT AUTHORITY\LOCAL SERVICE a |
| https://+:2178/BITS-peer-caching/ NT SERVICE\BITS http://+:80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+:80/Temporary_Listen_Addres Everyone | https://+:2178/BITS-peer-caching/ NT SERVICE\BITS http://+:80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+:80/Temporary_Listen_Addres Everyone http://*:4780/ STH-W2K8-TEST\Restricted_user | | https://*:5358/ | NT AUTHORITY\LOCAL SERVICE a |
| http://+:80/wsman/ NT AUTHORITY/NETWORK SERVICE http://+:80/Temporary_Listen_Addres Everyone | http://+:80/wsman/ NT AUTHORITY\NETWORK SERVICE http://+:80/Temporary_Listen_Addres Everyone http://*:4780/ STH-W2K8-TEST\Restricted_user | | https://+:2178/BITS-peer-caching/ | NT SERVICE\BITS |
| http://+:80/Temporary_Listen_Addres Everyone | http://*:80/Temporary_Listen_Addres Everyone http://*:4780/ STH-W/2K8-TEST\Restricted_user | | http://+:80/wsman/ | NT AUTHORITY\NETWORK SERVICE |
| | http://*:4780/ STH-W2K8-TEST\Restricted_user | | http://+:80/Temporary_Listen_Addres | Everyone |
| http://~:4/80/ STH-W2K8-TEST/Hestricted_user | | | http://*:4780/ | STH-W2K8-TEST\Restricted_user |
| | | | | |



URL Reservations

Add the folloing resarvations for the service account (Domain\Service account)

| URL: | Description: | Service id |
|-----------------------------|--|------------|
| http://*:4780/ | Management service, management port | QMS |
| http://+:4799/QMS/MEX/ | Management service, QMS API | QMS |
| http://+:4799/QMS/Service/ | Management service, QMS API | QMS |
| http://+:4799/QMS/ | Management service, QMS API | QMS |
| http://*:4720/ | Distribution Service, management port | QDS |
| http://*:4730/ | Directory service connector, management port | DSC |
| Only reserve the URLs below | w when using QlikView Web Server | |
| http://*:4750/ | QVWS management port | QVWS |
| http://+:80/qlikview/ | QlikView Web service | QVWS |
| http://+:80/qvdesktop/ | QlikView Web service | QVWS |
| http://+:80/qvclients/ | QlikView Web service | QVWS |
| http://+:80/qvplugin/ | QlikView Web service | QVWS |
| http://+:80/qvajaxzfc/ | QlikView Web service | QVWS |
| http://+:80/scripts/ | QlikView Web service | QVWS |
| https://+:443/scripts/ | QlikView Web service | QVWS |

HTTPS users need to register https:// instead.

Windows 2008 script

It's also possible in Windows 2008 to create a URL reservation script:

```
set varUser=Domain\ServiceAccount
set varProtocol=http

REM -webserver
netsh http add urlacl url=https://+:443/scripts/ user=%varUser%
netsh http add urlacl url=%varProtocol%://+:80/scripts/ user=%varUser%
netsh http add urlacl url=%varProtocol%://+:80/gvajaxzfc/ user=%varUser%
netsh http add urlacl url=%varProtocol%://+:80/gvajaxzfc/ user=%varUser%
netsh http add urlacl url=%varProtocol%://+:80/gvlugin/ user=%varUser%
netsh http add urlacl url=%varProtocol%://+:80/gvdesktop/ user=%varUser%
netsh http add urlacl url=%varProtocol%://*:4720/ user=%varUser%
REM -Distribution Service
netsh http add urlacl url=%varProtocol%://*:4730/ user=%varUser%
REM -biserver Admin
netsh http add urlacl url=%varProtocol%://*:4750/ user=%varUser%
REM -Management Service
netsh http add urlacl url=%varProtocol%://*:4780/ user=%varUser%
REM -Management Service API
netsh http add urlacl url=%varProtocol%://+:4799/QMS/Service/ user=%varUser%
netsh http add urlacl url=%varProtocol%://+:4799/QMS/MEX/ user=%varUser%
```

QlikView Distribution Service and COM object

You need to manually configuring the permissions on the com object for the QlikViewBatch 7.0 Application.

Click on Start and Run, then type *DCOMCNFG.EXE* Expand Console Root => Component Services => Computers => My Computer => DCOM Config



Add the account that need launch permissions, in this case your service user.

Check permissions for "Local Launch", "Remote Launch", "Local Activation", "Remote Activation"

| ral Location Security [| Endpoints Identity | | |
|-----------------------------------|----------------------|-------|----------|
| Launch and Activation Per | missions | | |
| C Use Default | | | |
| | | | |
| - Custonize | 2 | Edit | <u>.</u> |
| | / | | |
| Access Permissions | 1 | | |
| Use Default | | | |
| C Customize | | Edit | |
| | | | |
| Configuration Permissions | | | |
| Use Default | | | |
| C Customize | | Edit | 8 |
| | | | |
| | | | |
| | | | |
| m more about <u>setting these</u> | properties. | | |
| | | | |
| | OK C | and 1 | 40 |

Save.

The same actions must also be done for Access Permissions and Configuration Permissions.



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Installation note: If you did not select "to specify account later" after you completed the above steps the Distribution Service will not start. You will need to change the service Logon account to an Admin user long enough to start it. You then can Change it back

| 🙀 QlikView Server x86 - InstallShield Wizard | × |
|---|-------------------------|
| Logon Information Specify a user name and password | Q |
| Specify the user name and password of the user account that will logon to us user account must be in the form DOMAIN/Username. | e this application. The |
| $\overline{\mathbf{v}}$ I want to specify the account to be used for the services la | ter. |
| User name: | Brauma |
| l Password: | browse |
| l | |
| InstallShield | Cancel |
| < Back Next > | Cancel |



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