CloudShare's virtualization platform makes it easy to quickly and cost effectively stand up key resources for any size QlikView deployment whether it be a single server for quick dev/test initiatives or multiple servers to explore an end-to-end enterprise topology. In this post we're going to look at creating a development environment on the CloudShare virtualization platform in order to jump start a QlikView project.

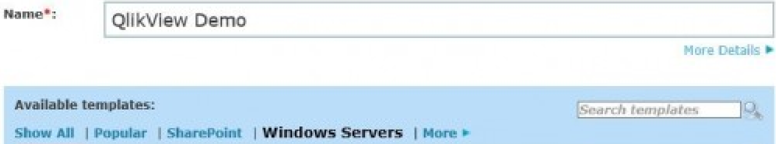
I'm assuming that since you are reading a blog post about how to setup a QlikView environment in CloudShare, you know what QlikView is, but just in case you don't…

"With QlikView, organizations can rapidly deploy fast, flexible Business Discovery apps that provide information workers with dynamic views of the information they need to make decisions. Unlike most business intelligence software, with QlikView information workers can ask and answer the next question, and the question after that, without going back to an expert for a new report or data visualization. The answers are already there, available through simple clicks and taps." (source: "The QlikView Business Discovery Platform")

This post will cover:
- Creating and Configuring the CloudShare Environment
- Installing and Configuring the QlikView Server
- Connecting QlikView Desktop to QlikView Server

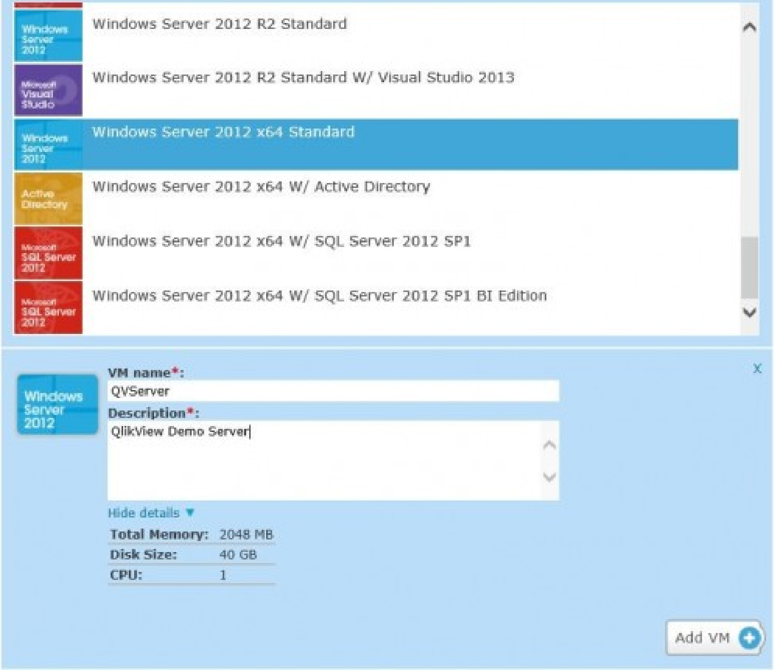
Creating and Configuring the CloudShare Environment:

To install QlikView server in a CloudShare virtual machine we must first provision the environment from the CloudShare web portal. Here we can name our new environment and add a single virtual machine to the environment. For our single server we'll choose "Windows Server 2012 x64 Standard" template and give it a name and description.



Name*: QlikView Demo

More Details ▶
Available templates:
Search templates
Show All
Popular
SharePoint
Windows Servers
More ▶


Windows Server 2012
Microsoft Visual Studio
Windows Server 2012
Active Directory
Microsoft SQL Server 2012
Microsoft SQL Server 2012
Windows Server 2012
Hide details ▼
Add VM
X

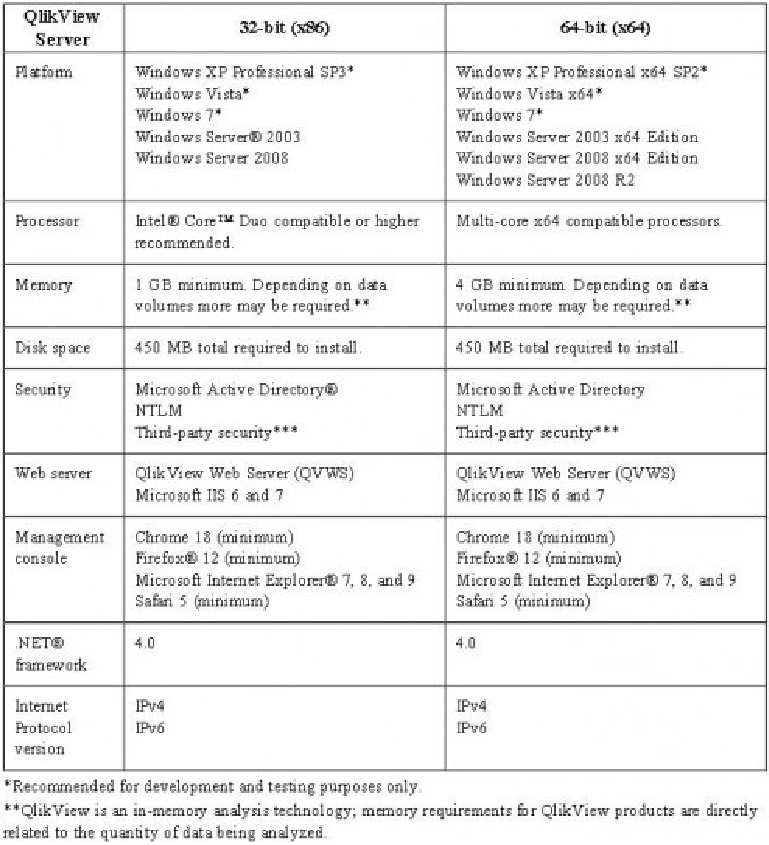
Windows Server 2012 R2 Standard
Windows Server 2012 R2 Standard W/ Visual Studio 2013
Windows Server 2012 x64 Standard
Windows Server 2012 x64 W/ Active Directory
Windows Server 2012 x64 W/ SQL Server 2012 SP1
Windows Server 2012 x64 W/ SQL Server 2012 SP1 BI Edition

VM name*: QVServer
Description*: QlikView Demo Server

Total Memory:	2048 MB
Disk Size:	40 GB
CPU:	1

Next, we need to increase the resources that this server utilizes in order to meet the minimum required resource for a QlikView server. Per the initial release manual for QlikView Server 11 (http://us.demo.qlikview.com/download/) we will require the following hardware specification to support a development or testing environment. However, in order to achieve better performance more resources may be required if your QlikView documents are of any significant size. Being able to easily and reactively adjust environment resources is one of the key benefits of deploying QlikView to CloudShare's virtualization platform.
The minimum requirements for a QlikView server are as follows:

3.1 QlikView Server

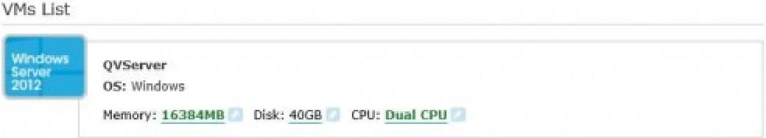


QlikView Server	32-bit (x86)	64-bit (x64)
Platform	Windows XP Professional SP3* Windows Vista* Windows 7* Windows Server® 2003 Windows Server 2008	Windows XP Professional x64 SP2* Windows Vista x64* Windows 7* Windows Server 2003 x64 Edition Windows Server 2008 x64 Edition Windows Server 2008 R2
Processor	Intel® Core™ Duo compatible or higher recommended.	Multi-core x64 compatible processors.
Memory	1 GB minimum. Depending on data volumes more may be required.**	4 GB minimum. Depending on data volumes more may be required.**
Disk space	450 MB total required to install.	450 MB total required to install.
Security	Microsoft Active Directory® NTLM Third-party security***	Microsoft Active Directory NTLM Third-party security***
Web server	QlikView Web Server (QVWS) Microsoft IIS 6 and 7	QlikView Web Server (QVWS) Microsoft IIS 6 and 7
Management console	Chrome 18 (minimum) Firefox® 12 (minimum) Microsoft Internet Explorer® 7, 8, and 9 Safari 5 (minimum)	Chrome 18 (minimum) Firefox® 12 (minimum) Microsoft Internet Explorer® 7, 8, and 9 Safari 5 (minimum)
.NET® framework	4.0	4.0
Internet Protocol version	IPv4 IPv6	IPv4 IPv6

*Recommended for development and testing purposes only.

**QlikView is an in-memory analysis technology; memory requirements for QlikView products are directly related to the quantity of data being analyzed.

To increase the resources for our QlikView Server we'll edit the environment and edit the hardware for our virtual machine. Once completed we'll save changes which causes the VM to reboot.


Windows Server 2012

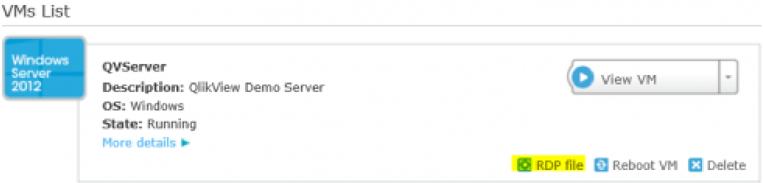
VMs List

QVServer

OS: Windows

Memory: 16384MB Disk: 40GB CPU: Dual CPU

To connect to the new VM we can either use a RDP connection from your machine or connect to the server via the RDP connection from the CloudShare web portal. A simple way to retrieve an RDP file to connect from a local client is to download the file directly from the web portal by clicking "RDP file".



VMs List

QVServer
Description: QlikView Demo Server
OS: Windows
State: Running

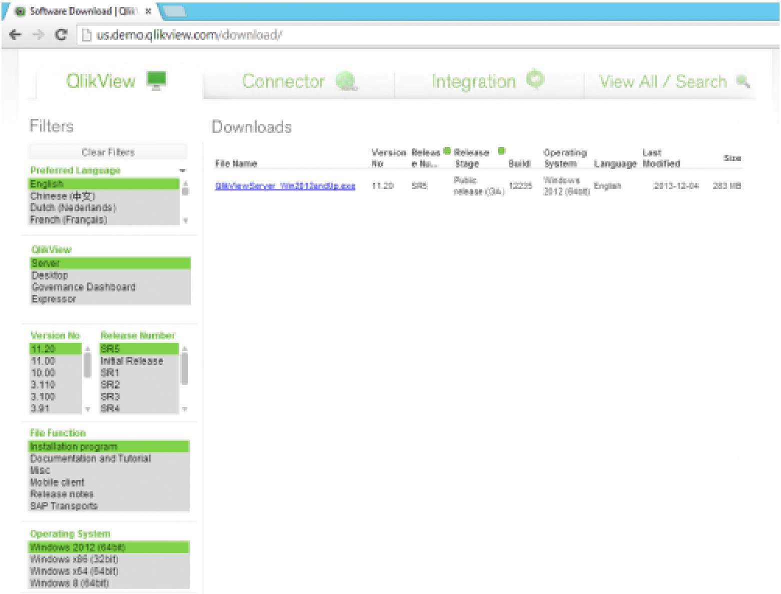
Windows Server 2012
More details ▶
View VM
RDP file
Reboot VM
Delete

Installing and Configuring the QlikView Server:

After our VM is provisioned and the appropriate resources have been allocated we can start the QlikView server installation. We can download all components from QlikView's download page (http://us.demo.qlikview.com/download/).

(Note: You must be a licensed customer or partner in order to access the download page.)

From the download page we can select the preferred language, product, version, release number, file type, and OS to download the correct file.



Software Download | Qlik ×
us.demo.qlikview.com/download/
QlikView
Connector
Integration
View All / Search
Filters
Clear Filters

Preferred Language
English
Chinese (中文)
Dutch (Nederlands)
French (Français)

QlikView
Server
Desktop
Governance Dashboard
Expressor

Version No
11.20
11.00
10.00
3.110
3.100
3.91

Release Number
SR5
Initial Release
SR1
SR2
SR3
SR4

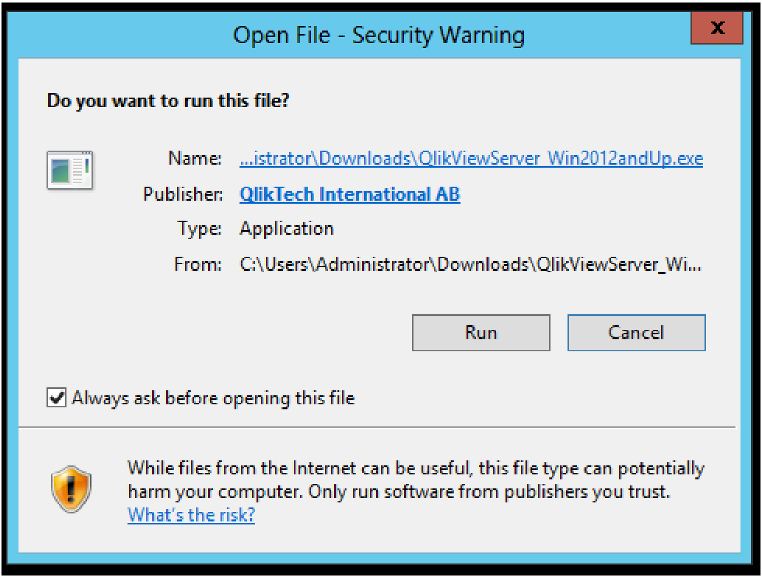
File Function
Installation program
Documentation and Tutorial
Misc
Mobile client
Release notes
SAP Transports

Operating System
Windows 2012 (64bit)
Windows x86 (32bit)
Windows x64 (64bit)
Windows 8 (64bit)

Downloads

File Name	Version No	Release Nu...	Release Stage	Build	Operating System	Language	Last Modified	Size
QlikViewServer_Win2012andUp.exe	11.20	SR5	Public release (GA)	12235	Windows 2012 (64bit)	English	2013-12-04	283 MB

Click "QlikViewServer_Win2012andUp.exe" to download the file and run when complete.



Open File - Security Warning

Do you want to run this file?

Name: ...istrator\Downloads\QlikViewServer_Win2012andUp.exe

Publisher: QlikTech International AB

Type: Application

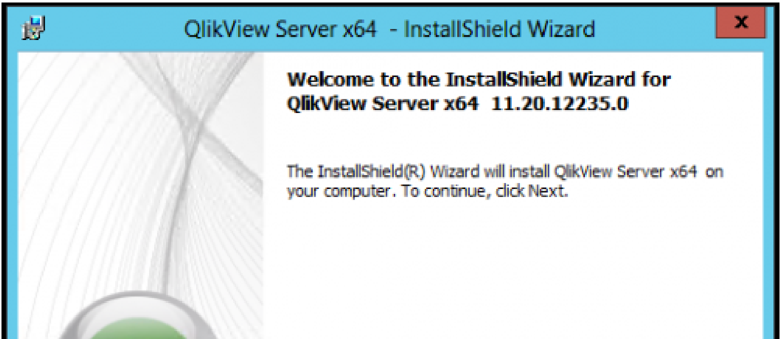
From: C:\Users\Administrator\Downloads\QlikViewServer_Wi...

☑ Always ask before opening this file

While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?

Note: In the event that you get an error after running the installer that says "the operating system is not adequate for running QlikView server" make sure that you have downloaded the correct version of the installer.

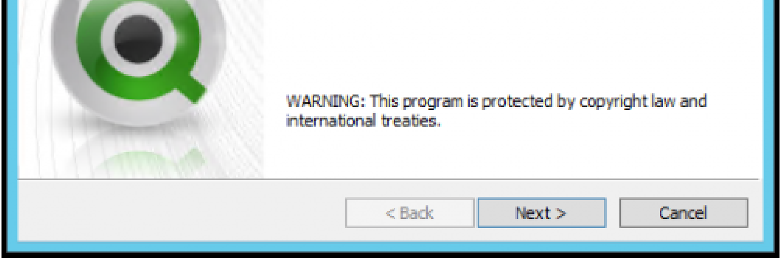
Click "Next"



QlikView Server x64 - InstallShield Wizard

Welcome to the InstallShield Wizard for QlikView Server x64 11.20.12235.0

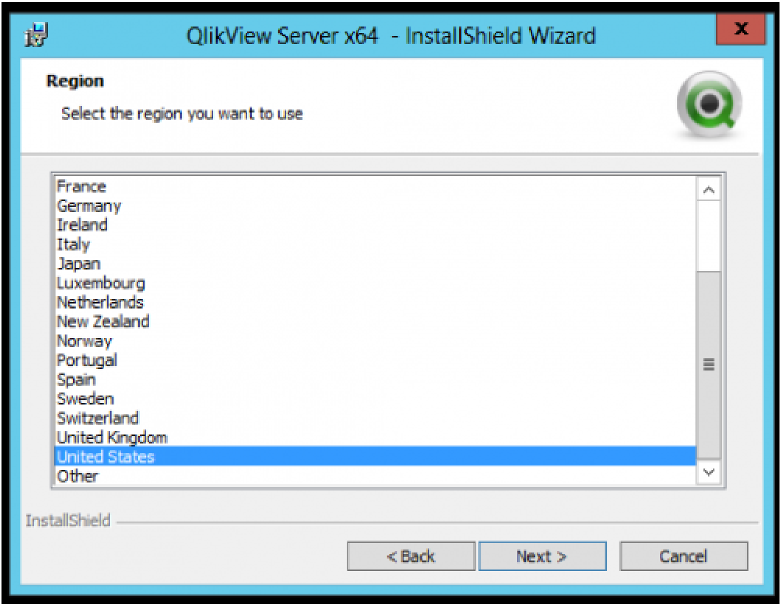
The InstallShield(R) Wizard will install QlikView Server x64 on your computer. To continue, click Next.



WARNING: This program is protected by copyright law and international treaties.

< Back
Next >
Cancel

Select your region. In this case we'll select "United States"



QlikView Server x64 - InstallShield Wizard

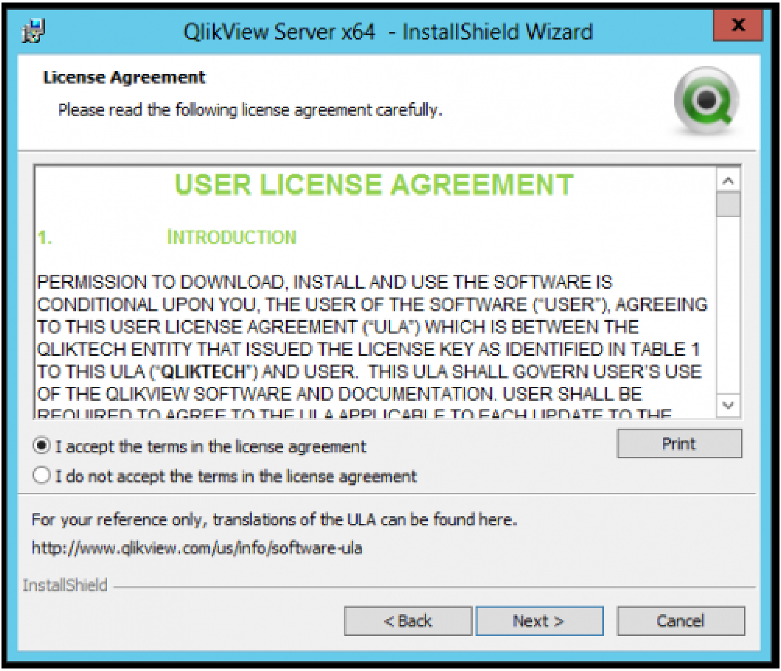
Region

Select the region you want to use

- France
- Germany
- Ireland
- Italy
- Japan
- Luxembourg
- Netherlands
- New Zealand
- Norway
- Portugal
- Spain
- Sweden
- Switzerland
- United Kingdom
- United States
- Other

InstallShield
< Back
Next >
Cancel

Accept the terms and license agreement


QlikView Server x64 - InstallShield Wizard
X
Print
InstallShield
< Back
Next >
Cancel

License Agreement

Please read the following license agreement carefully.

USER LICENSE AGREEMENT

1. INTRODUCTION

PERMISSION TO DOWNLOAD, INSTALL AND USE THE SOFTWARE IS CONDITIONAL UPON YOU, THE USER OF THE SOFTWARE ("USER"), AGREEING TO THIS USER LICENSE AGREEMENT ("ULA") WHICH IS BETWEEN THE QLIKTECH ENTITY THAT ISSUED THE LICENSE KEY AS IDENTIFIED IN TABLE 1 TO THIS ULA ("**QLIKTECH**") AND USER. THIS ULA SHALL GOVERN USER'S USE OF THE QLIKVIEW SOFTWARE AND DOCUMENTATION. USER SHALL BE REQUIRED TO AGREE TO THE ULA APPLICABLE TO EACH UPDATE TO THE

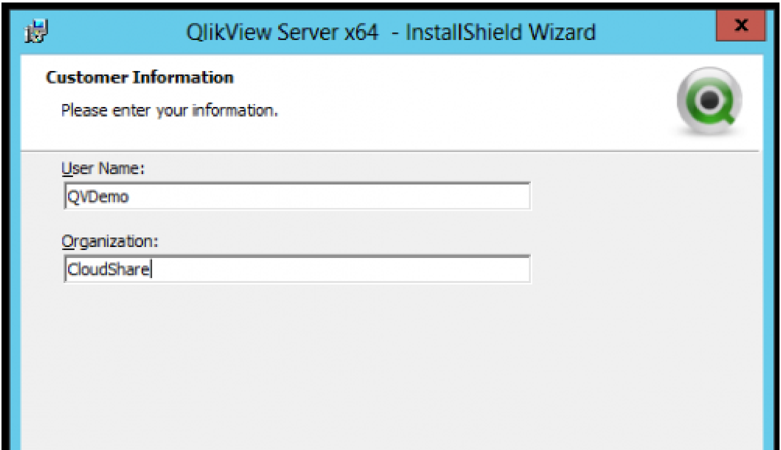
● I accept the terms in the license agreement

○ I do not accept the terms in the license agreement

For your reference only, translations of the ULA can be found here.

http://www.qlikview.com/us/info/software-ula

Enter a User Name and Organization

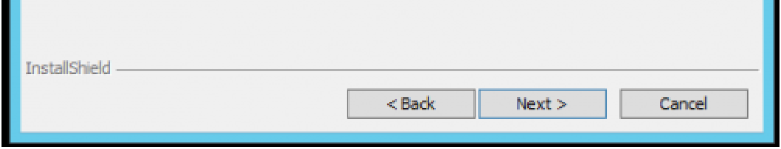

QlikView Server x64 - InstallShield Wizard
X

Customer Information

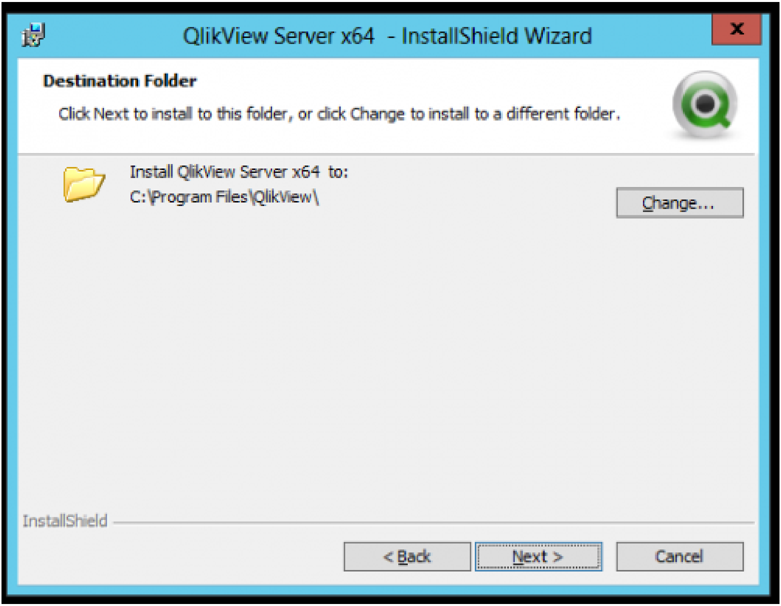
Please enter your information.

User Name: QVDemo

Organization: CloudShare


InstallShield
< Back
Next >
Cancel

Change the destination folder or leave it as the default

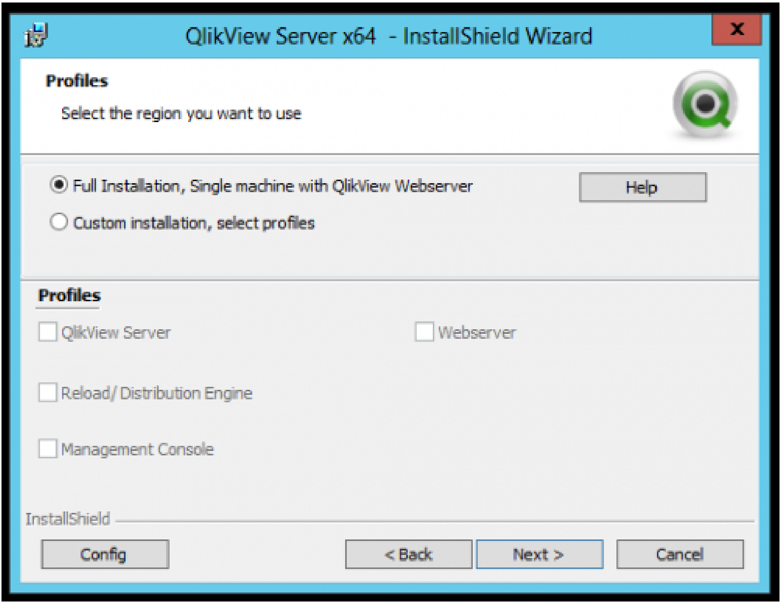

QlikView Server x64 - InstallShield Wizard
InstallShield
Change...
< Back
Next >
Cancel

Destination Folder

Click Next to install to this folder, or click Change to install to a different folder.

Install QlikView Server x64 to:
C:\Program Files\QlikView\

Select "Full Installation, Single machine with QlikView Webserver". QlikView services can be scaled out to multiple machines to separate workloads or support redundancy and clustering. In this environment we will use the QlikView Webserver that ships with the product, however you can use Microsoft Internet Information Services (IIS). Using IIS will give you more control over the web front end configuration.



QlikView Server x64 - InstallShield Wizard

Profiles

Select the region you want to use

● Full Installation, Single machine with QlikView Webserver

○ Custom installation, select profiles

Profiles

☐ QlikView Server

☐ Webserver

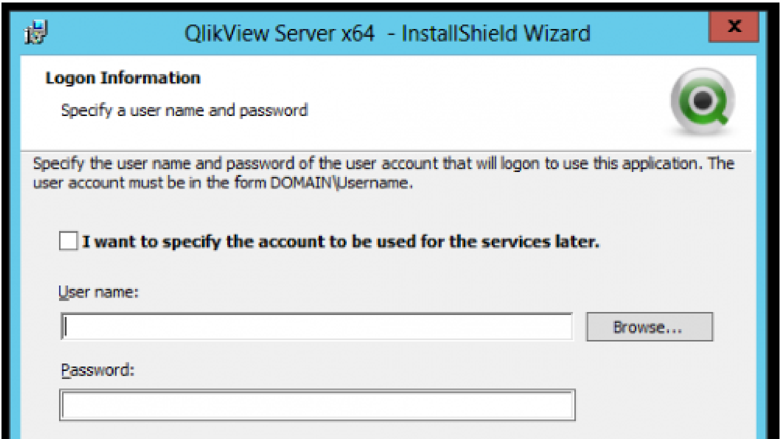
☐ Reload/ Distribution Engine

☐ Management Console

X
Help
InstallShield
Config
< Back
Next >
Cancel

Enter a User Name and Password that will be assigned to run the QlikView services.

(Note: this user much be a local administrator on the machine.)



QlikView Server x64 - InstallShield Wizard

Logon Information

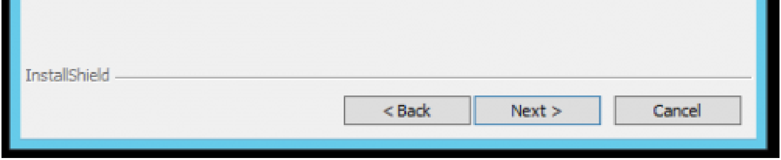
Specify a user name and password

Specify the user name and password of the user account that will logon to use this application. The user account must be in the form DOMAIN\Username.

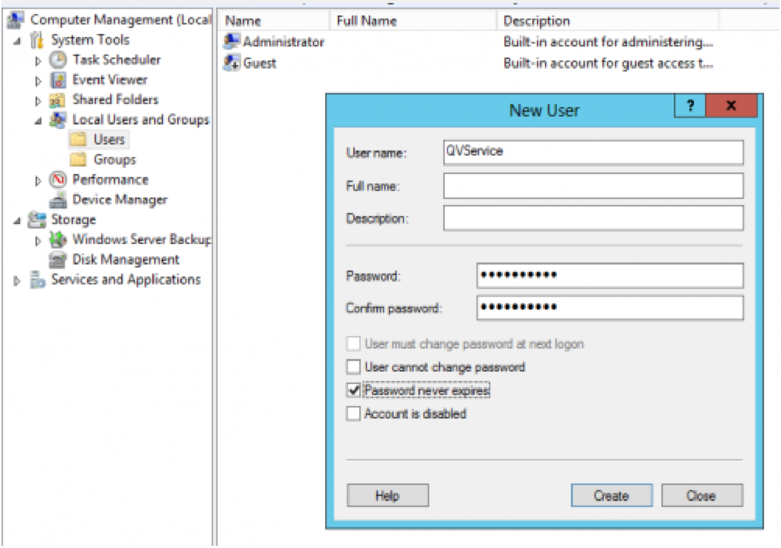
☐ **I want to specify the account to be used for the services later.**

User name:

Password:


InstallShield
< Back
Next >
Cancel

At this point we don't have a user to assign as the service account so we will quickly create one. Opening the Computer Management Console, select "Local Users and Groups", and create a new user. In our case we will call the user "QVService", assign the user a strong password, and set the password to never expire.


Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Users
Groups
Performance
Device Manager
Storage
Windows Server Backup
Disk Management
Services and Applications
Name
Full Name
Description
Administrator
Built-in account for administering...
Guest
Built-in account for guest access t...
New User
?
x
Help
Create
Close

User name: QVService

Full name:

Description:

Password: •••••••••••

Confirm password: •••••••••••

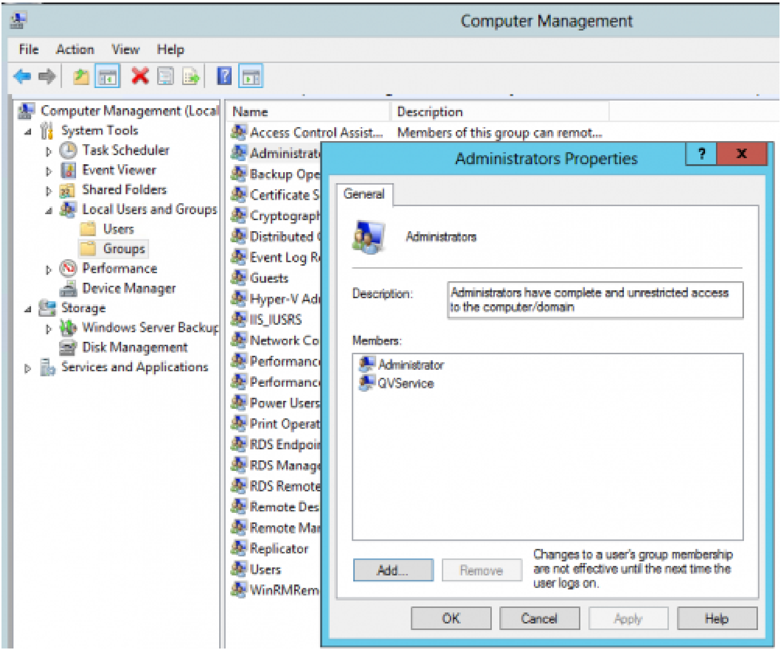
☐ User must change password at next logon

☐ User cannot change password

☑ Password never expires

☐ Account is disabled

Next, we will as the QVService user to the local administrators group on the server.


Computer Management
File Action View Help
Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Users
Groups
Performance
Device Manager
Storage
Windows Server Backup
Disk Management
Services and Applications
Name
Description
Access Control Assist...
Members of this group can remot...
Administrat
Backup Ope
Certificate S
Cryptograph
Distributed
Event Log R
Guests
Hyper-V Ad
IIS_IUSRS
Network Co
Performanc
Performanc
Power Users
Print Operat
RDS Endpoi
RDS Manag
RDS Remote
Remote Des
Remote Ma
Replicator
Users
WinRMRem
Administrators Properties
General
Add...
Remove
OK
Cancel
Apply
Help

Administrators

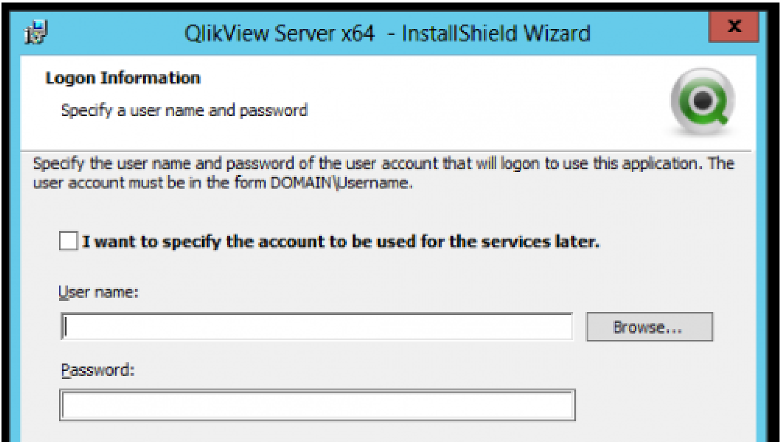
Description: Administrators have complete and unrestricted access to the computer/domain

Members:

Administrator
QVService

Changes to a user's group membership are not effective until the next time the user logs on.

Returning back to the service account screen we will enter our new user and password and click "Next"


QlikView Server x64 - InstallShield Wizard
Browse...

Logon Information

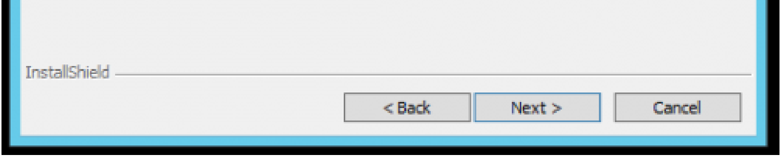
Specify a user name and password

Specify the user name and password of the user account that will logon to use this application. The user account must be in the form DOMAIN\Username.

☐ **I want to specify the account to be used for the services later.**

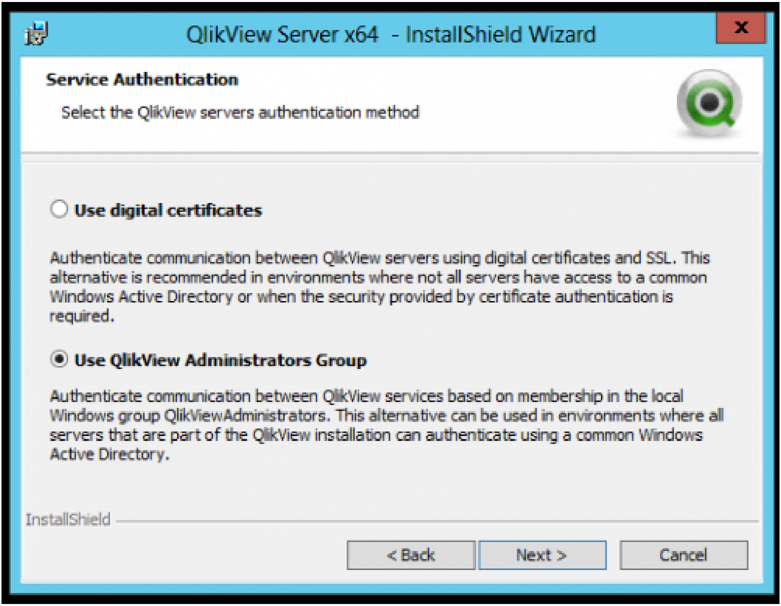
User name:

Password:


InstallShield
< Back
Next >
Cancel

On the Service Authentication screen we will select "Use QlikView Administrators Group" and click "Next".

(Note: The group QlikView Administrators will be a local security group created as part of this install process.)



QlikView Server x64 - InstallShield Wizard

Service Authentication

Select the QlikView servers authentication method

○ **Use digital certificates**

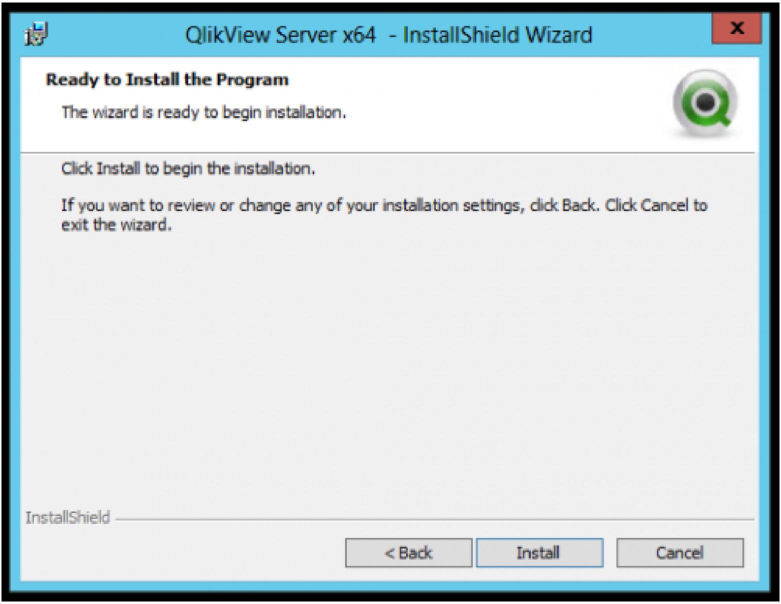
Authenticate communication between QlikView servers using digital certificates and SSL. This alternative is recommended in environments where not all servers have access to a common Windows Active Directory or when the security provided by certificate authentication is required.

● **Use QlikView Administrators Group**

Authenticate communication between QlikView services based on membership in the local Windows group QlikViewAdministrators. This alternative can be used in environments where all servers that are part of the QlikView installation can authenticate using a common Windows Active Directory.

InstallShield
< Back
Next >
Cancel

Click "Install"

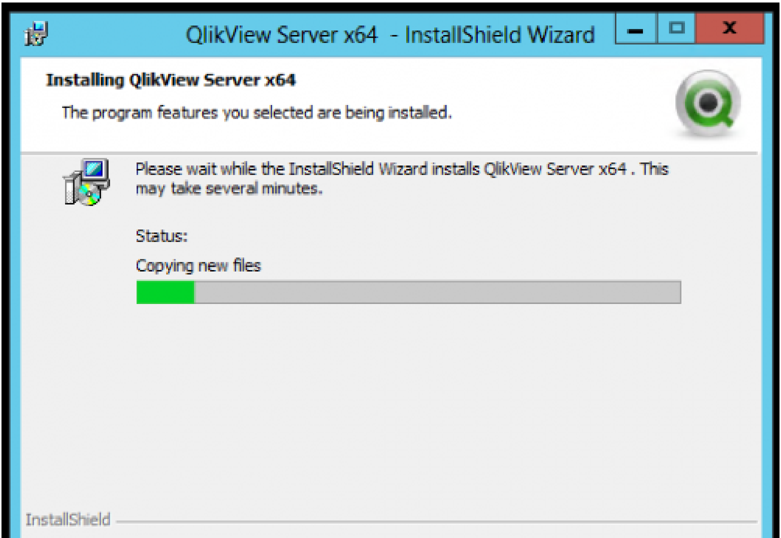

QlikView Server x64 - InstallShield Wizard
InstallShield
< Back
Install
Cancel

Ready to Install the Program

The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.


QlikView Server x64 - InstallShield Wizard
InstallShield

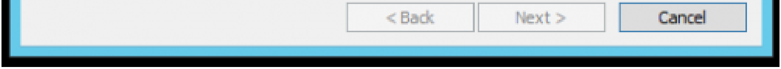
Installing QlikView Server x64

The program features you selected are being installed.

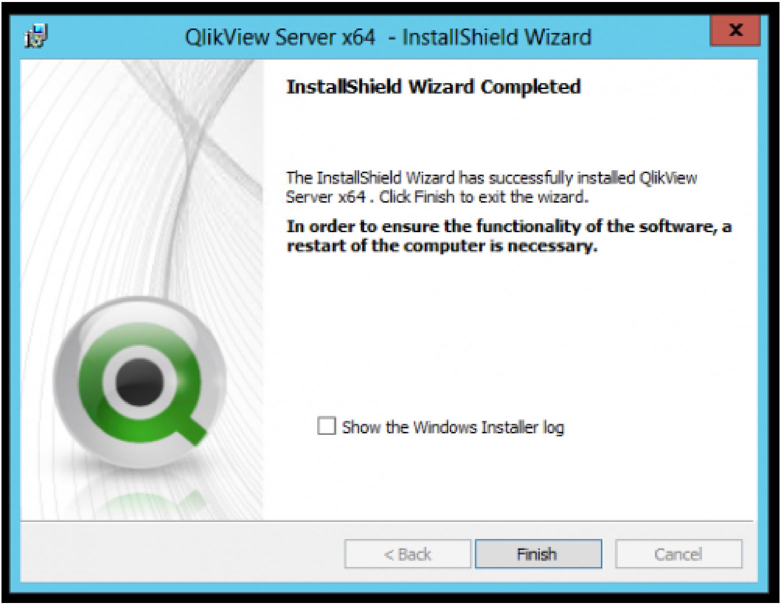
Please wait while the InstallShield Wizard installs QlikView Server x64 . This may take several minutes.

Status:

Copying new files


< Back
Next >
Cancel

Click "Finish"


QlikView Server x64 - InstallShield Wizard

InstallShield Wizard Completed

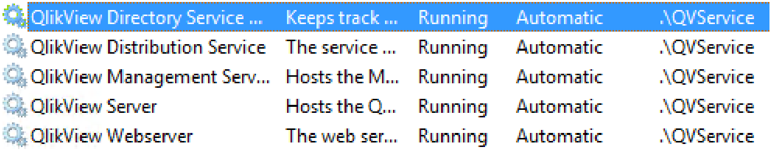
The InstallShield Wizard has successfully installed QlikView Server x64 . Click Finish to exit the wizard.

In order to ensure the functionality of the software, a restart of the computer is necessary.

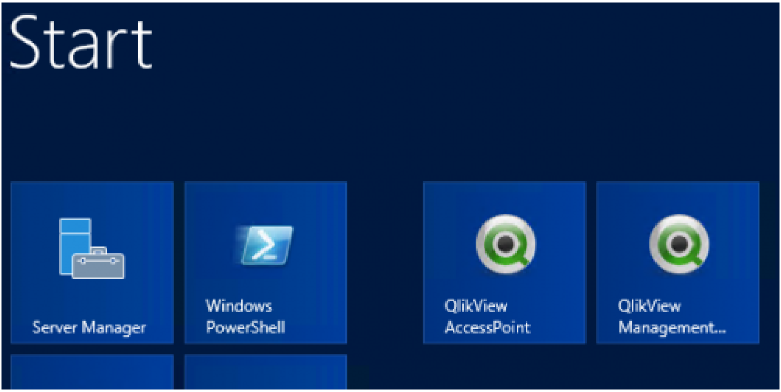
☐ Show the Windows Installer log

< Back
Finish
Cancel

To verify that the install was successful and that all services have been started navigation to the Services console and find the QlikView services. All services should be running under our new service account.


QlikView Directory Service ...	Keeps track ...	Running	Automatic	.\QVService
QlikView Distribution Service	The service ...	Running	Automatic	.\QVService
QlikView Management Serv...	Hosts the M...	Running	Automatic	.\QVService
QlikView Server	Hosts the Q...	Running	Automatic	.\QVService
QlikView Webserver	The web ser...	Running	Automatic	.\QVService

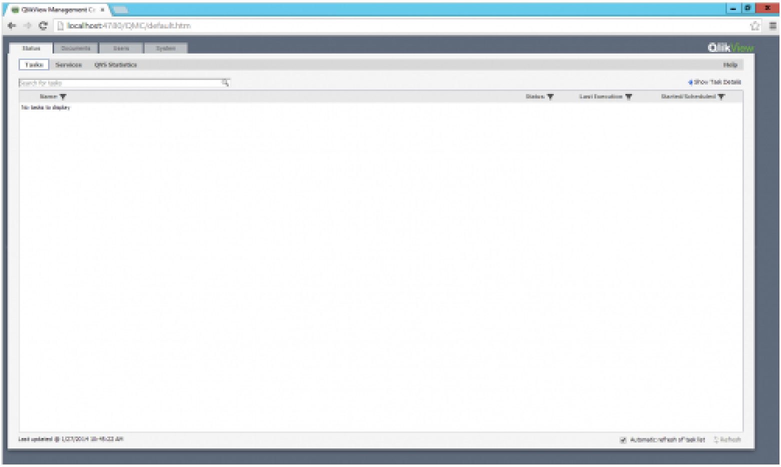
From the Start menu two new applications will be available: QlikView Access Point and QlikView Management Console.


Start
Server Manager
Windows PowerShell
QlikView AccessPoint
QlikView Management...

Configuring QlikView in Management Console

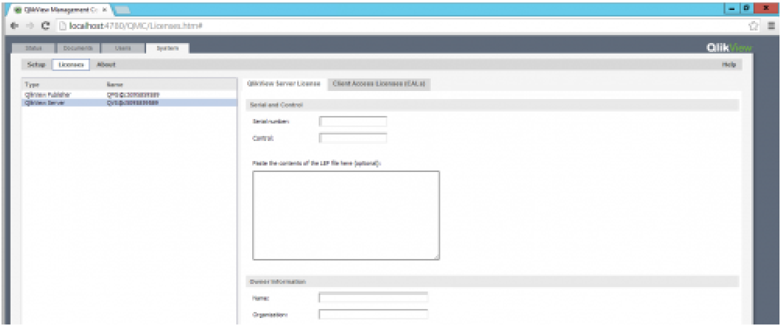
Once QlikView server is installed and all services are up and running we need to access the Management Console to finish the QlikView configuration. QlikView's Management Console is exactly what it sounds like, the console from which you manage or administer QlikView Server.

We can launch Management Console from either the start menu or by opening a browser and navigating to http://localhost:4780/qmc

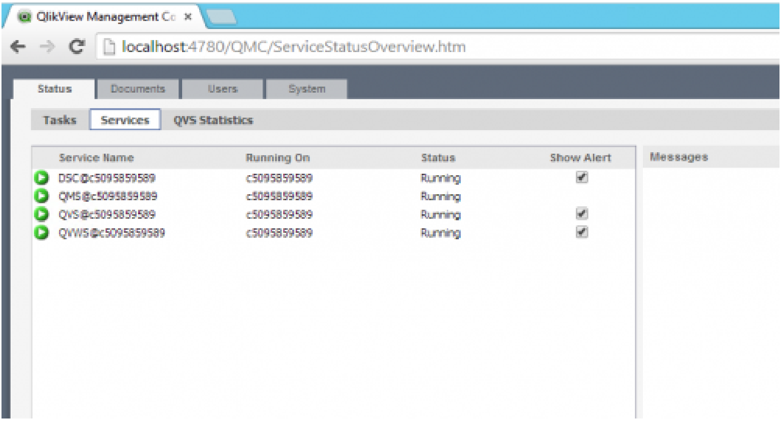

localhost:4780/QMC/default.htm
Status
Documents
Users
System
Tasks
Services
QVS Statistics
Help
Search for tasks
Show Task Details
Name
Status
Last Execution
Started/Scheduled
Automatic refresh of task list
Refresh

No tasks to display

Our first step is to configure our QlikView license in Management Console. From the home page click the System tab -> Licenses -> QlikView Server -> QlikView Server License. On this page we will enter our serial number, control number, a user name, organization, and click "Apply License".


QlikView Management Co
localhost:4780/QMC/Licenses.htm#
Status
Documents
Users
System
QlikView
Setup
Licenses
About
Help
Type
Name
QlikView Publisher
QlikView Server
QlikView Server License
Client Access Licenses (CALs)
Serial and Control
Serial number:
Control:
Paste the contents of the LEF file here (optional):
Owner Information
Name:
Organization:

Once the license has been applied successfully navigate back to the Status tab -> Services and validate that all services are running and healthy.

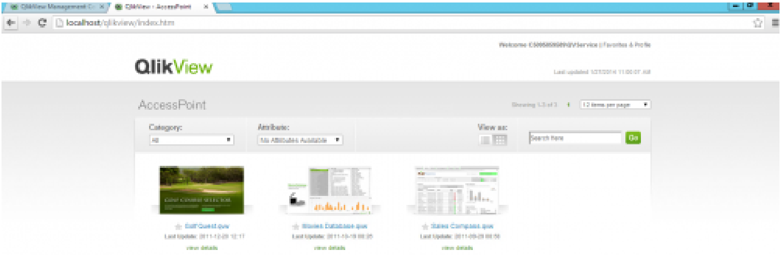

QlikView Management Co
localhost:4780/QMC/ServiceStatusOverview.htm
Status
Documents
Users
System
Tasks
Services
QVS Statistics
Messages

Service Name	Running On	Status	Show Alert
DSC@c5095859589	c5095859589	Running	☑
QMS@c5095859589	c5095859589	Running	
QVS@c5095859589	c5095859589	Running	☑
QVWS@c5095859589	c5095859589	Running	☑

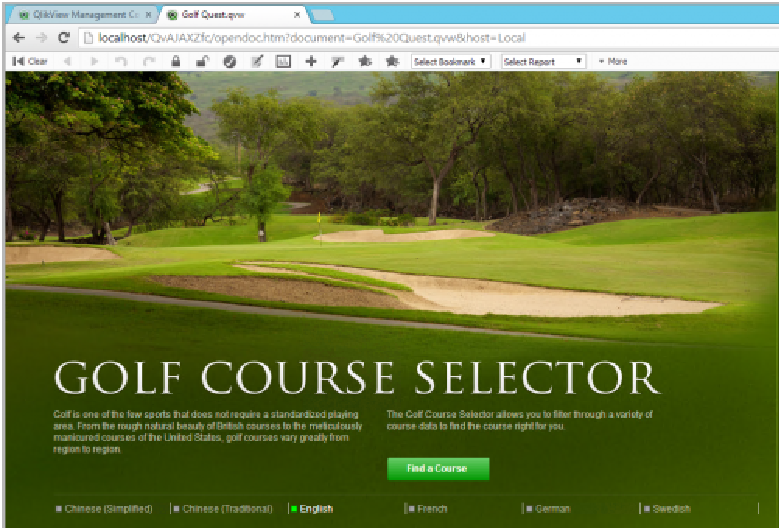
Congratulations! You've just installed QlikView server. Make sure to take a snapshot of your CloudShare environment to preserve your work!

Viewing Documents in Access Point

Access Point is QlikView's web portal for displaying and interacting with your QlikView documents via the browser. To view Access Point you can click the QlikView Access Point link off of the Start menu or open a browser and navigate to http://localhost/qlikview/. You can also use your CloudShare VM's external address http://[externalAddress]/qlikview/ to access the environment remotely. Upon logging in you should see the three default QlikView documents installed with the server.


QlikView - AccessPoint
localhost/qlikview/index.htm
QlikView
AccessPoint
Category:
All
Attribute:
View as:
Search here
Go
Golf Quest.qvw
Movies Database.qvw
Sales Compass.qvw
view details

Select a document to view it in the browser.


QlikView Management Co
Golf Quest.qvw
localhost/QvAJAXZfc/opendoc.htm?document=Golf%20Quest.qvw&host=Local
Clear
Select Bookmark
Select Report
More

GOLF COURSE SELECTOR

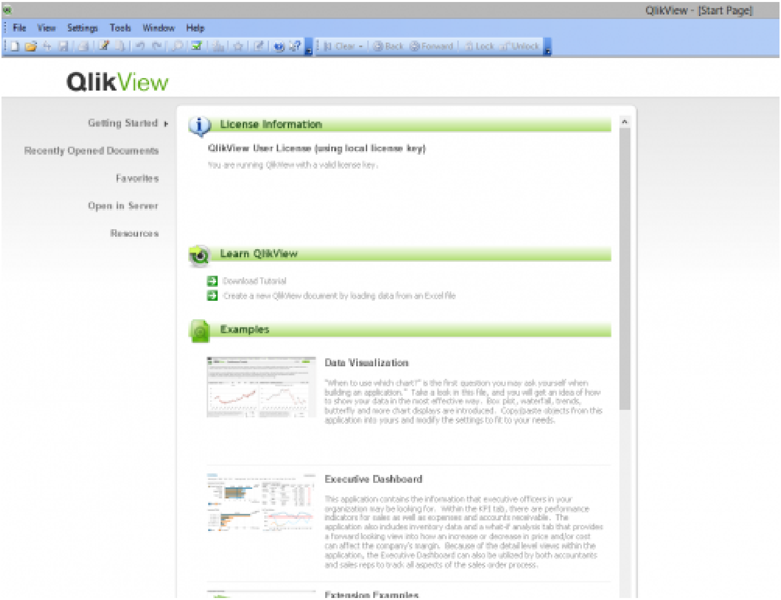
Golf is one of the few sports that does not require a standardized playing area. From the rough natural beauty of British courses to the meticulously manicured courses of the United States, golf courses vary greatly from region to region.

The Golf Course Selector allows you to filter through a variety of course data to find the course right for you.

Find a Course
Chinese (Simplified)
Chinese (Traditional)
English
French
German
Swedish

Connecting QlikView Desktop to QlikView Server:
QlikView Desktop is the design and development suite for creating data models and dashboard apps for QlikView. In our previous steps we installed our QlikView server. With QlikView Desktop we can now connect to the server and open our existing documents.

From our local machine we open QlikView Desktop.


QlikView - [Start Page]
File
View
Settings
Tools
Window
Help
Clear
Back
Forward
Lock
Unlock
QlikView
Getting Started
Recently Opened Documents
Favorites
Open in Server
Resources
License Information
Learn QlikView
Download Tutorial
Create a new QlikView document by loading data from an Excel file
Examples
Data Visualization
Executive Dashboard
Extension Examples

QlikView User License (using local license key)

You are running QlikView with a valid license key.

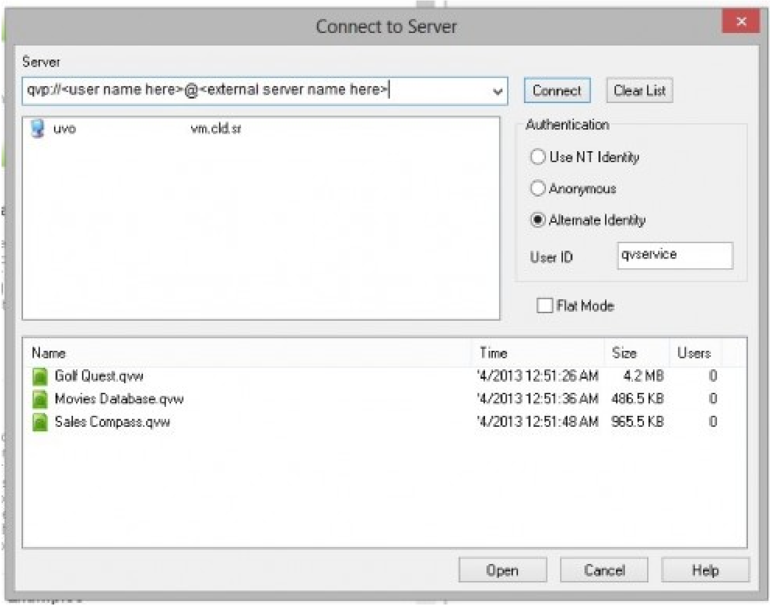
"When to use which chart?" is the first question you may ask yourself when building an application." Take a look in this file, and you will get an idea of how to show your data in the most effective way. Box plot, waterfall, trends, butterfly and more chart displays are introduced. Copy/paste objects from this application into yours and modify the settings to fit to your needs.

This application contains the information that executive officers in your organization may be looking for. Within the KPI tab, there are performance indicators for sales as well as expenses and accounts receivable. The application also includes inventory data and a what-if analysis tab that provides a forward looking view into how an increase or decrease in price and/or cost can affect the company's margin. Because of the detail level views within the application, the Executive Dashboard can also be utilized by both accountants and sales reps to track all aspects of the sales order process.

Select "File" -> "Open in Server". Here we are prompted with the "Connect to Server" window. Enter your CloudShare VM's external address and the account you would like to connect with. In our case we'll connect as the QVService account for simplicity and click "Connect".

(Note: You can create additional development users on the server and configure permissions on the QlikView Document directory at C:\ProgramData\QlikTech \Documents)

Upon a successful connection the three default QlikView documents will display. Select a document and click "Open".


Connect to Server
Connect
Clear List
Open
Cancel
Help

Server

qvp://<user name here>@<external server name here>

uvo vm.cld.sr

Authentication

○ Use NT Identity

○ Anonymous

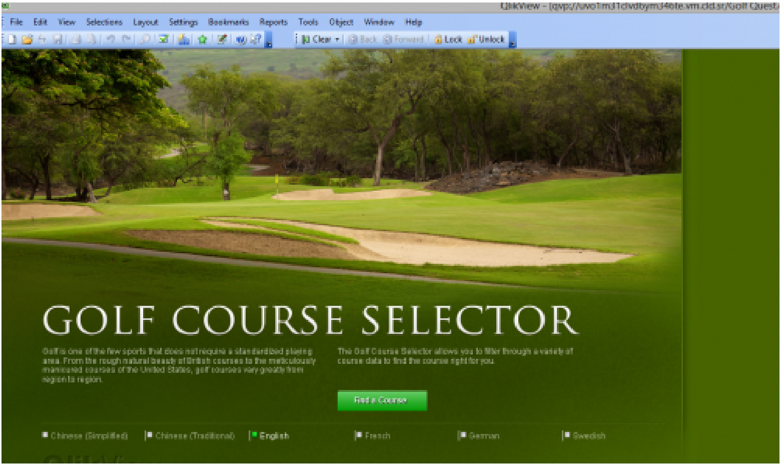
● Alternate Identity

User ID qvservice

☐ Flat Mode

Name	Time	Size	Users
Golf Quest.qvw	'4/2013 12:51:26 AM	4.2 MB	0
Movies Database.qvw	'4/2013 12:51:36 AM	486.5 KB	0
Sales Compass.qvw	'4/2013 12:51:48 AM	965.5 KB	0

The document will open in QlikView Desktop.


File
Edit
View
Selections
Layout
Settings
Bookmarks
Reports
Tools
Object
Window
Help
Clear
Back
Forward
Lock
Unlock
GOLF COURSE SELECTOR
Find a Course
Chinese (Simplified)
Chinese (Traditional)
English
French
German
Swedish

Golf is one of the few sports that does not require a standardized playing area. From the rough natural beauty of British courses to the meticulously manicured courses of the United States, golf courses vary greatly from region to region.

The Golf Course Selector allows you to filter through a variety of course data to find the course right for you.

Congratulations! You are connected to your CloudShare QlikView Server!

Within a short period of time we have created a QlikView server in a simple CloudShare environment and are up and running, ready to build our next QlikView project!