

Repeater:

Default VNC ports 5901, 5500

Default Webgui:80

Default user: admin

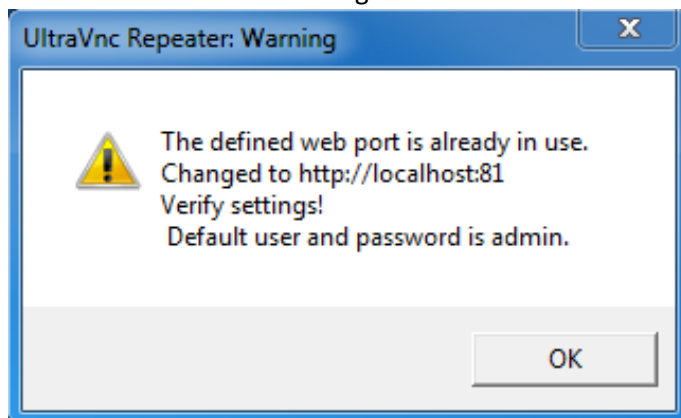
Default password: adminadmi2

The server need to run on a PC with a direct internet connection, like a dedicated server.

It doesn't work if your PC is behind a nat router.

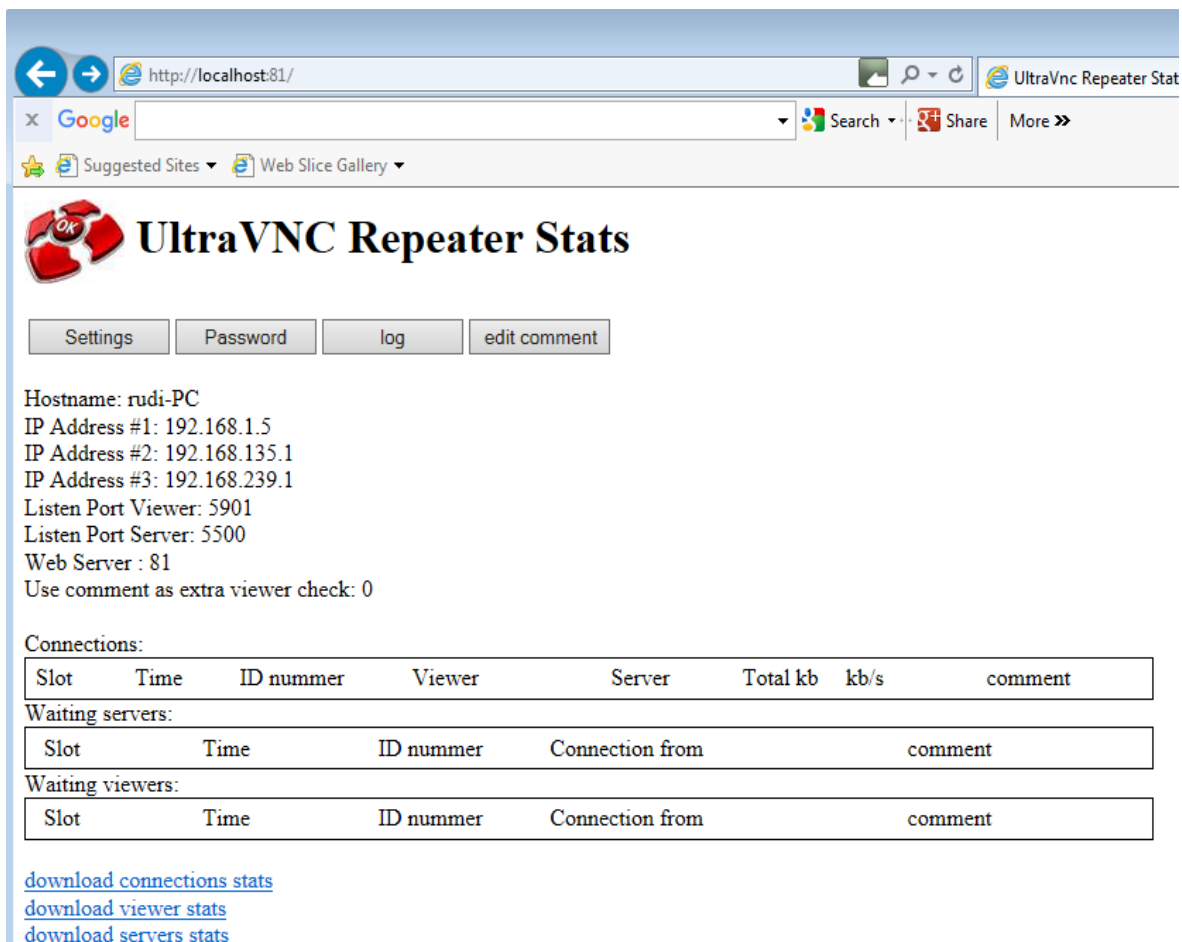
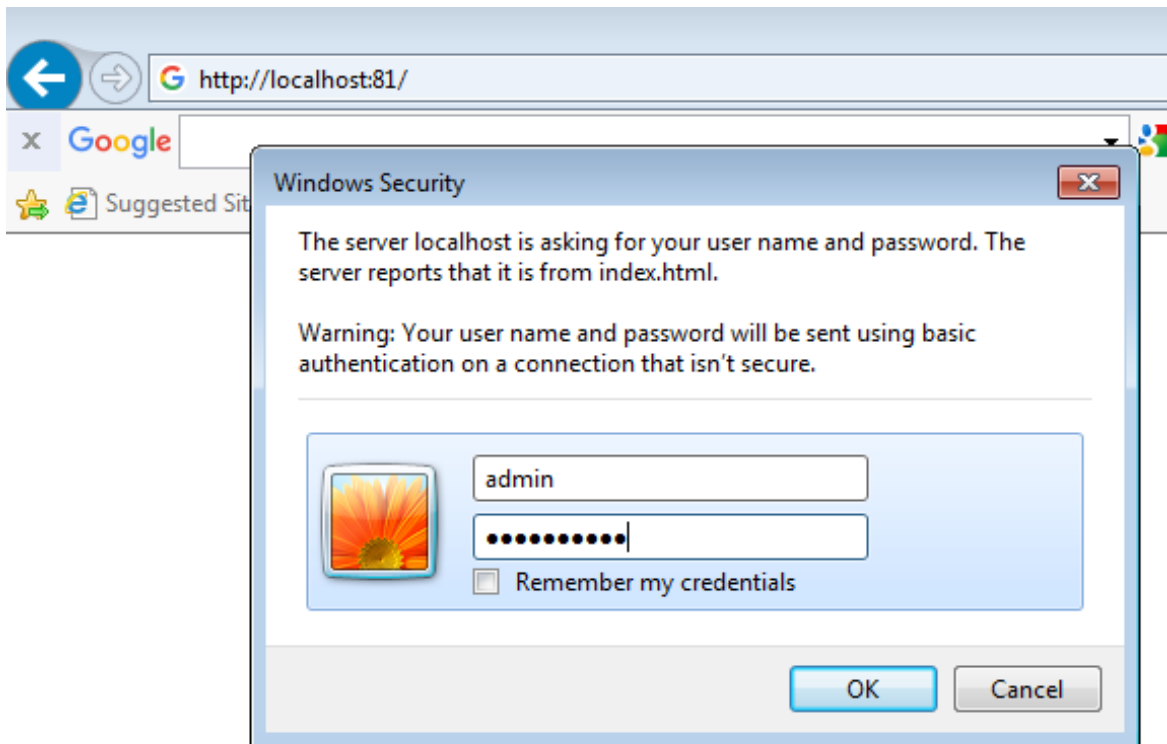
The VNC viewer and VNC server can be behind a nat router, but the repeater need to be open on the internet. You can also forward ports from the natrouter, so it look like the repeater is direct connected, this also work.

On First run check for warnings.

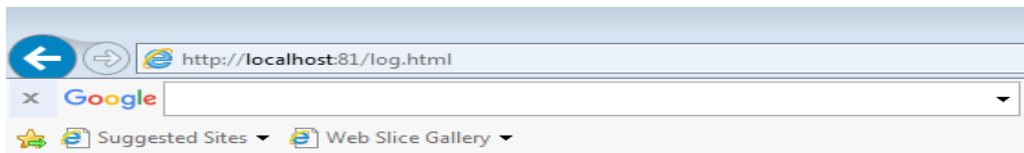


In our case, port 80 was already in use by a webserver, repeater use as Gui the first available port 81

Connect your browser to <http://localhost:81>



Press the log button to see if all started OK



UltraVNC Repeater Log

Settings

Password

Stats

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```
socket() initialized
bind() succeeded to port 5500
listen() succeeded
socket() initialized
bind() succeeded to port 5901
listen() succeeded
```

In case of an error



UltraVNC Repeater Log

Settings

Password

Stats

```
accept() failed, errno=0
Check if port is not already in use port=5500
accept() failed, errno=0
Check if port is not already in use port=5901
accept() failed, errno=0
Check if port is not already in use port=5500
accept() failed, errno=0
```

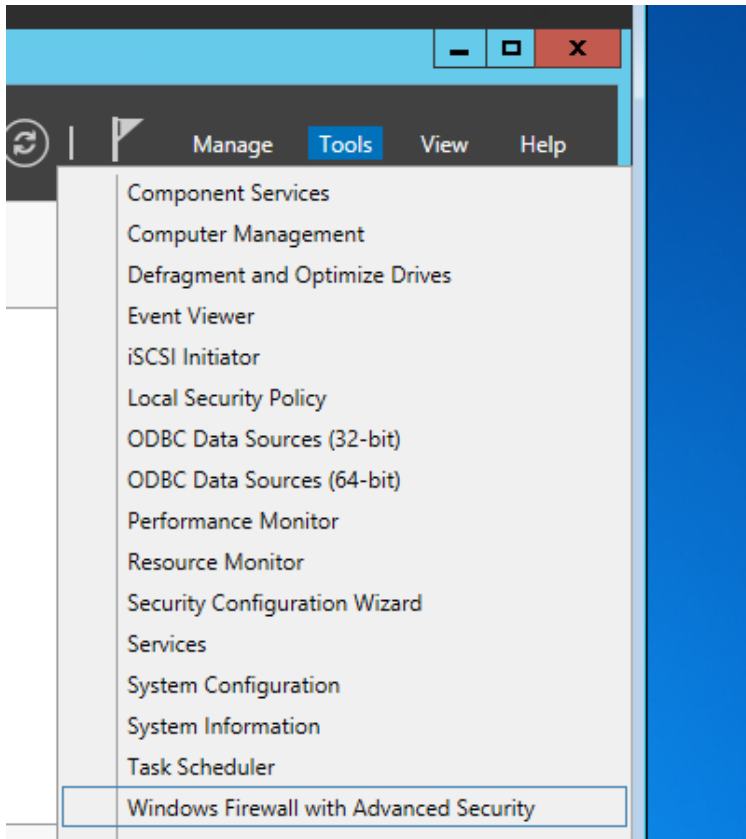
Both ports 5901 and 5500 are already in use.

Make changes to the settings to be sure bind() succeeded for the vnc ports and the webgui is not already used by another application.

Firewall.

When you start the repeater.exe on a windows server 2012/ 2008 you need to manual modify the firewall rules. In home versions some firewall popup ask to allow the repeater.

Sample server 2012

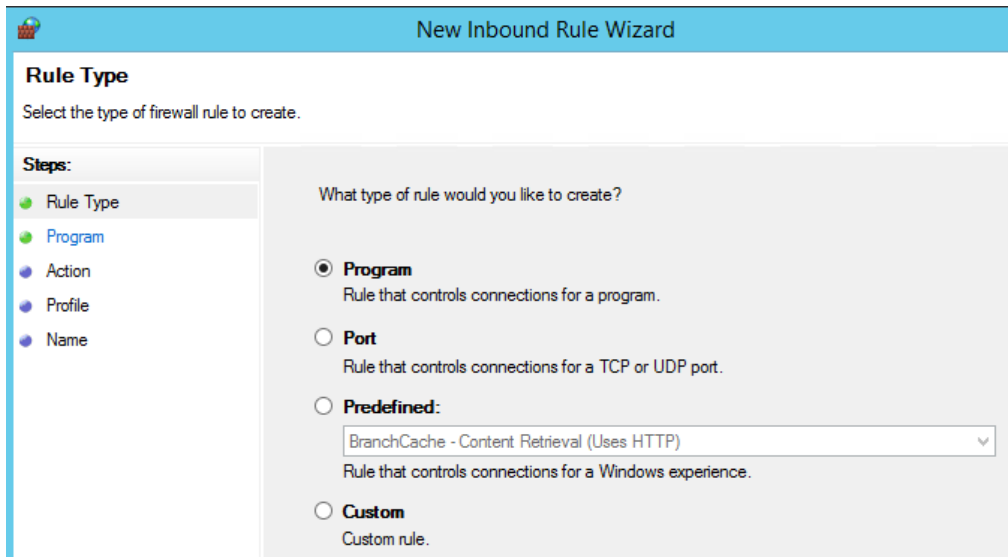


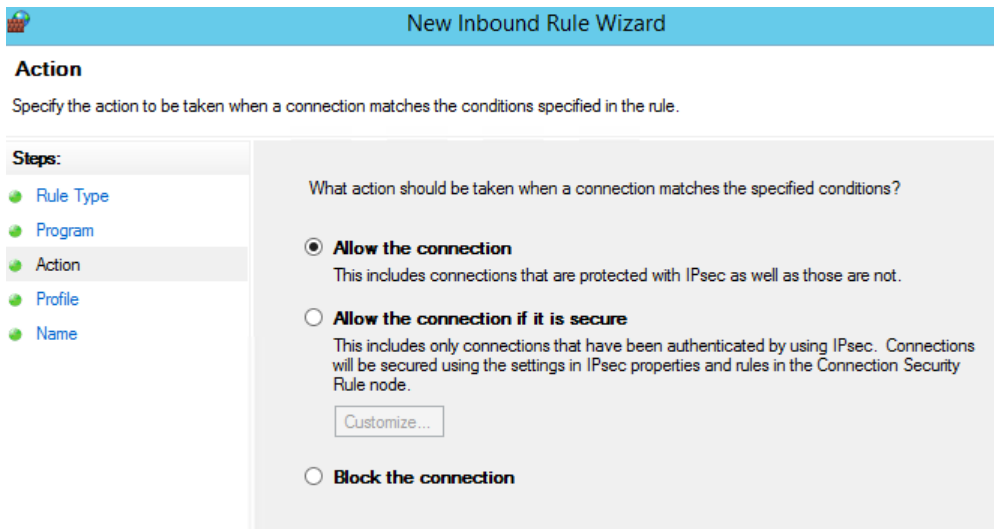
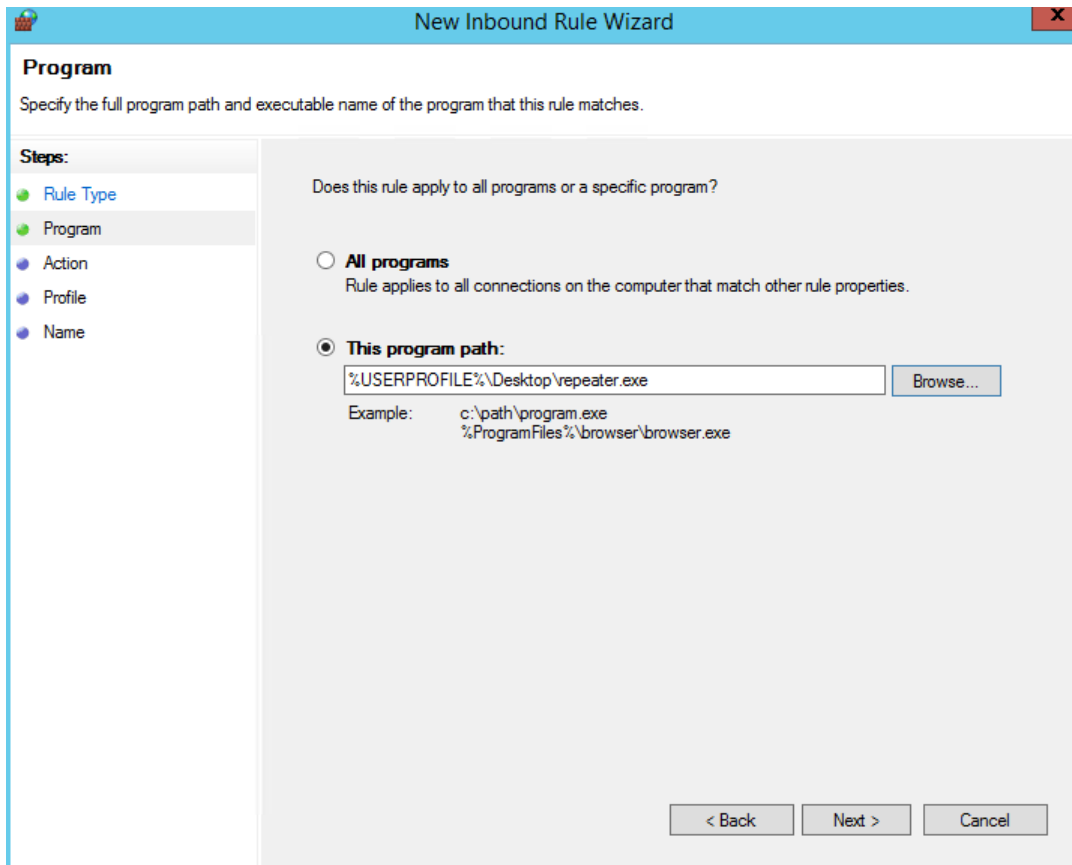
I add 3 Rules

Inbound:

Add the program

Do the same for in and outbound





I also needed to add the extra inbound ports to make it work.

New Inbound Rule Wizard

Rule Type

Select the type of firewall rule to create.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

What type of rule would you like to create?

Program
Rule that controls connections for a program.

Port
Rule that controls connections for a TCP or UDP port.

Predefined:
BranchCache - Content Retrieval (Uses HTTP)
Rule that controls connections for a Windows experience.

Custom
Custom rule.

New Inbound Rule Wizard

Protocol and Ports

Specify the protocols and ports to which this rule applies.

Steps:

- Rule Type
- Protocol and Ports
- Action
- Profile
- Name

Does this rule apply to TCP or UDP?

TCP

UDP

Does this rule apply to all local ports or specific local ports?

All local ports

Specific local ports:
Example: 80, 443, 5000-5010

81,5901,5500

In our case we started the repeater on www.uvnc.com on port 8080

VNC SERVER

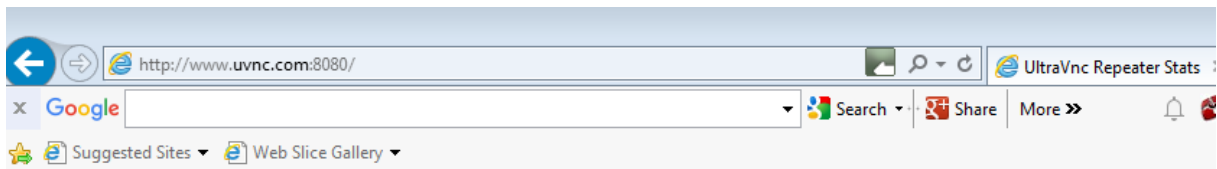
@home, running behind a nat router with ip 87.64.166.50 i started a VNC server as service. and added this single line to the vnc server config file.

This line instruct the server to keep making connections to the repeater using ID 12345679

ultravnc.ini

[admin]

Service_commandline=-autoreconnect ID:12345679 -connect www.uvnc.com:5500



UltraVNC Repeater Stats

Settings

Password

log

edit comment

Hostname: 66-226-75-44

IP Address #1: 66.226.75.44

Listen Port Viewer: 5901

Listen Port Server: 5500

Web Server : 8080

Use comment as extra viewer check: 0

Connections:

Slot	Time	ID nummer	Viewer	Server	Total kb	kb/s	comment
------	------	-----------	--------	--------	----------	------	---------

Waiting servers:

Slot	Time	ID nummer	Connection from	comment
0	2016/1/27 13:36:10	12345679	87.64.166.50	

Waiting viewers:

Slot	Time	ID nummer	Connection from	comment
------	------	-----------	-----------------	---------

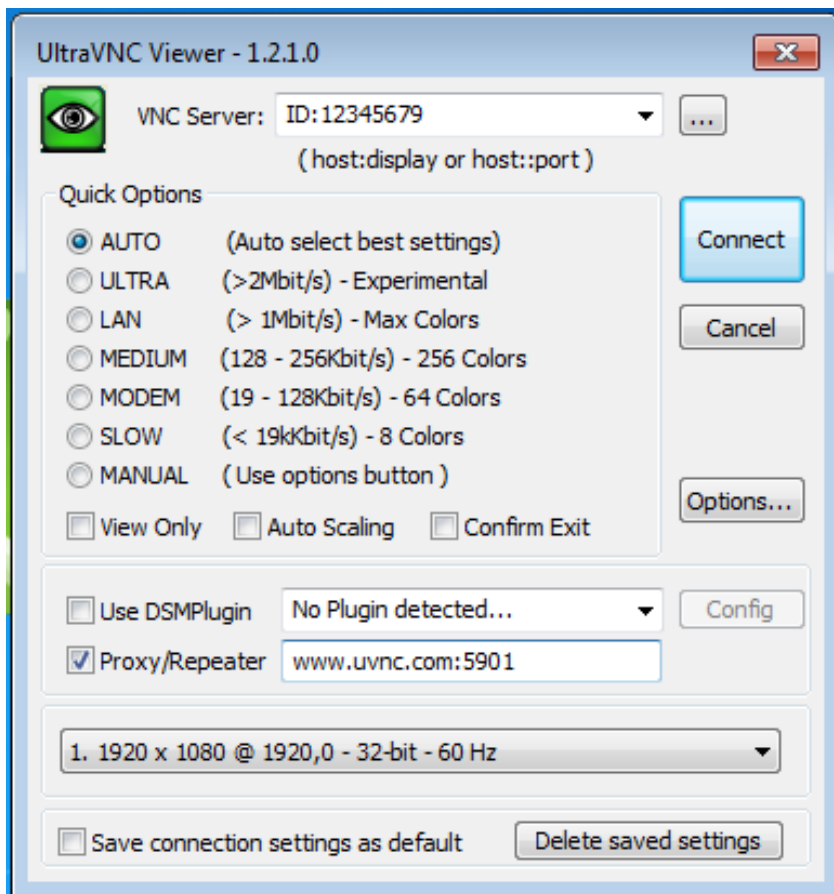
[download connections stats](#)

[download viewer stats](#)

[download servers stats](#)

After you start the VNC server, he become visible as waiting server in the webgui of the repeater.

VNC VIEWER



We use the same ID:12345679 and connect to viewer port 5901 of the repeater. You should see that the viewer negotiate the protocol and opens the window showing the server desktop.

In the repeater webGui you now see connection for ID 12345679

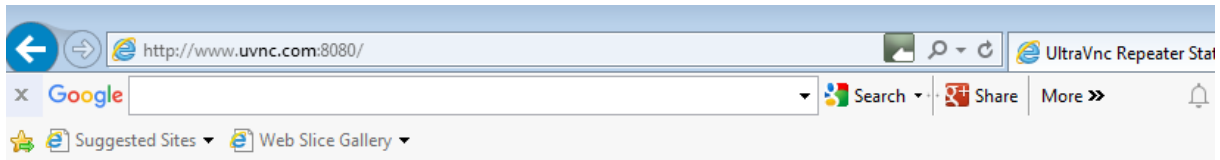
WARNING

For first test it's ok to run without encryption....it's easier to test and this need to work before you can activate the encryption.

By default, the connection doesn't ask a password, so if someone know the ID or access the webgui he can connect to your server without any password.

ALWAYS activate encryption, activating encryption auto activate the password.

Special over the in internet use the longer encryption plugin passwords or predefine a encryption key.



UltraVNC Repeater Stats

Settings Password log edit comment

Hostname: 66-226-75-44
IP Address #1: 66.226.75.44
Listen Port Viewer: 5901
Listen Port Server: 5500
Web Server : 8080
Use comment as extra viewer check: 0

Connections:

Slot	Time	ID number	Viewer	Server	Total kb	kb/s	comment
0	2016/1/27 13:49:32	12345679	87.64.166.50	87.64.166.50	466	0	

Waiting servers:

Slot	Time	ID number	Connection from	comment
------	------	-----------	-----------------	---------

Waiting viewers:

Slot	Time	ID number	Connection from	comment
------	------	-----------	-----------------	---------

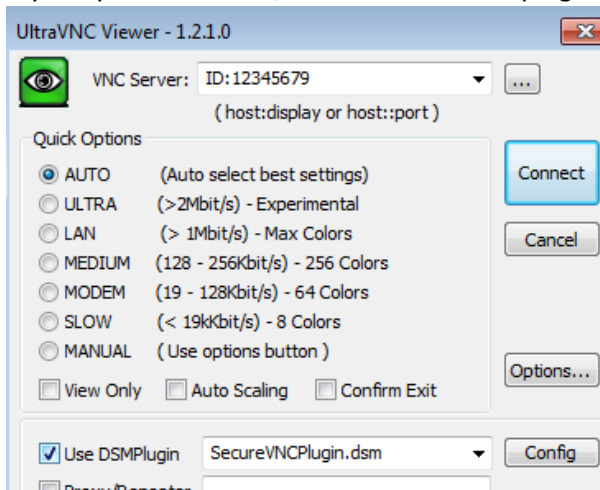
[download connections stats](#)
[download viewer stats](#)
[download servers stats](#)

ENCRYPTION

Activating encryption using the encryption plugin "SecureVNCPlugin.dsm"
The plugin is part of the addons you can download.

The plugin need to be in the same folder as the server/viewer, If installed with the installer, that should be the case.

If you open the viewer, he list the installed plugins, to activate you select the [v] use plugin



On the server site you set it in the server properties

UltraVNC Server Property Page

Incoming Connections

Accept Socket Connections

Display Number or Ports to use:

Display N°

Ports Main: Auto

Http:

Enable JavaViewer (Http Connect)

Allow Loopback Connections

LoopbackOnly

When Last Client Disconnects

Do Nothing

Lock Workstation (W2K)

Logoff Workstation

Keyboard & Mouse

Disable Viewers inputs

Disable Local inputs

Alternate keyboard method

Authentication

VNC Password:

View-Only Password:

Require MS Logon (User/Pass./Domain)

New MS Logon (supports multiple domains)

File Transfer

Enable User impersonation (for Service only)

DSM Plugin

Use :

Misc.

Re

Re

Er

RC

Di

Fc

De

Loggin

Lo

Using the [config] button you can set a long password “passprase”

If you want to use a predefined key, use the [Generate Client Authentication key] button.

This generate 2 key.

20160127_Server_ClientAuth.pubkey

20160127_Viewer_ClientAuth.pkey

The viewer key you need to copy in the same folder as vncviewer.exe and leave the server key in the server folder.

