

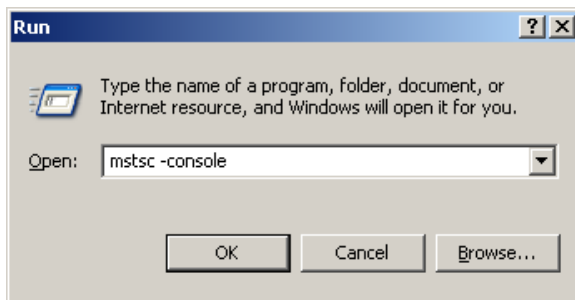
## Setting up your VPS for automated screen scraping betting software

This document will take you through the process of enabling your Windows 2003 32 or 64 bit VPS to host screen scraping betting bots.

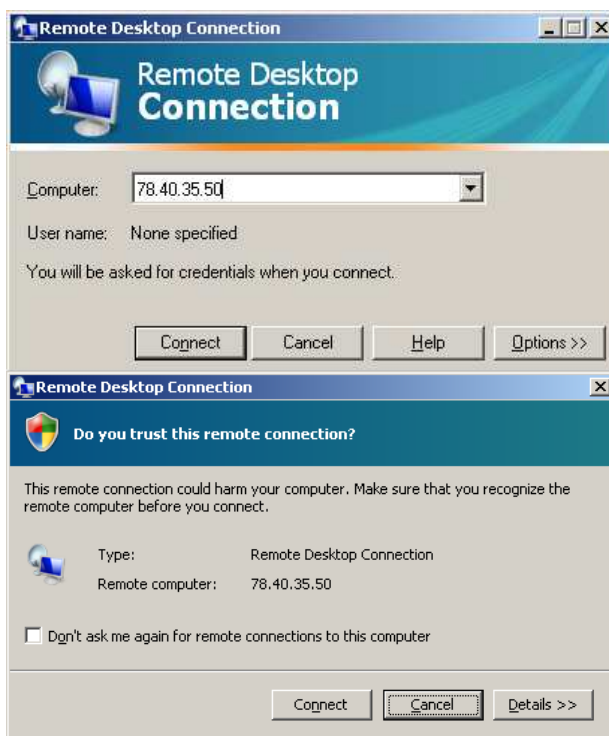
### 1 - Installing UltraVNC

The standard Windows remote desktop client imposes certain restrictions on the environment in which remote applications execute. In order to get around these a different piece of remote control software is required called UltraVNC. The following steps will guide you through getting it up and running on your VPS.

1. On your desktop computer, click Start > Run and then enter 'mstsc -console' > click ok



2. Specify the IP address of your VPS and then click connect. You may then need to click connect again to confirm that you trust the remote computer.

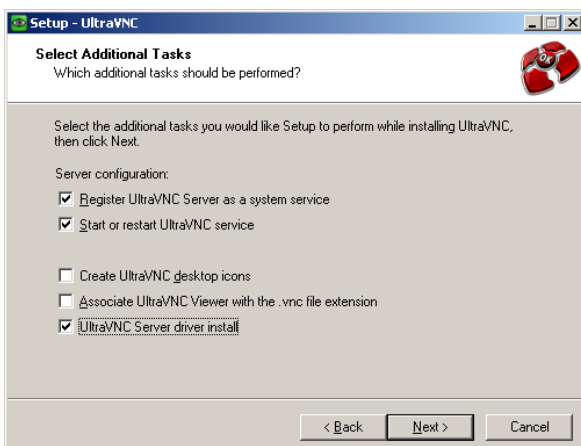


3. Log on to your VPS and you should see the desktop. The remaining steps must all be carried out on the VPS unless otherwise specified.

- Determine which operating system has been installed on your VPS (required for the next step) by navigating to Start > Control Panel > System. On the general tab under the 'System:' label, if the version is stated to be 'Microsoft Windows Server 2003 R2 Standard Edition' then a 32bit operating system is installed. If 64bit is mentioned then the VPS is 64bit.
- Download UltraVNC from the following URL: <http://www.uvnc.com/download> . Upon clicking the download link, you'll want to ensure that you select the full option and then pick either the top most win32 link if you have a 32 bit VPS or the top most X64 link if your VPS is 64 bit.

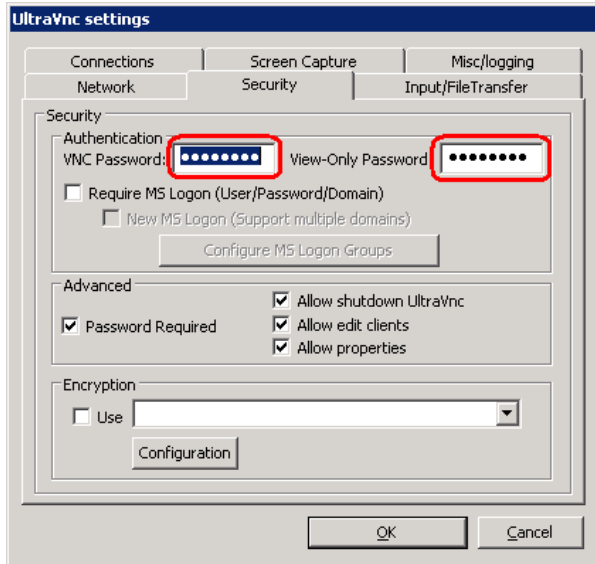


- Start the UltraVNC installer and navigate through the dialogues ensuring that when prompted you select 'Full installation', untick the 'Download Vista addons files now', tick the 'Download the mirror driver', tick 'Register UltraVNC Server as a system service', tick 'Start or restart UltraVNC service' and tick 'UltraVNC Server driver install'.

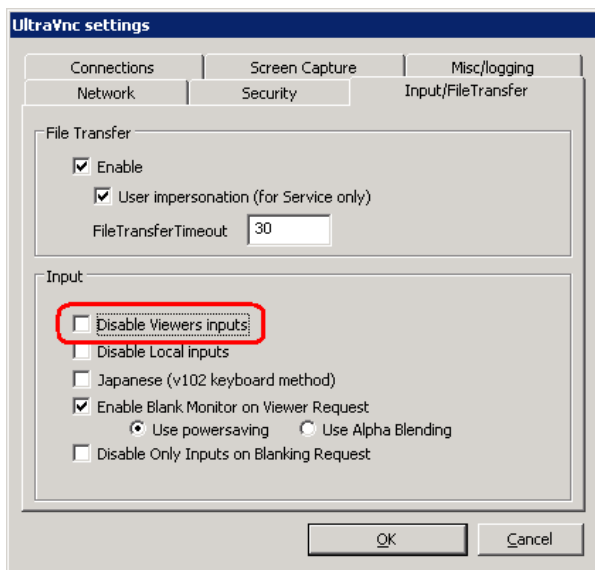


Once the installation is complete you can dismiss any error messages that appear stating that the driver could not be installed.

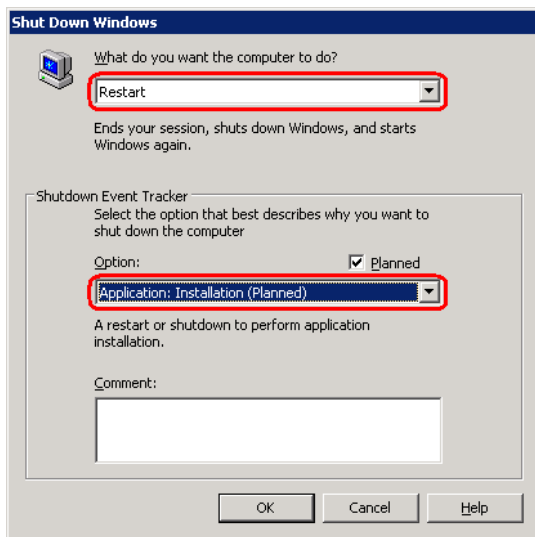
7. Edit the UltraVNC configuration settings by navigating to Start > All Programs > UltraVNC > Edit Settings. Select the security tab and enter an 8 character password.



Navigate to the 'Input/FileTransfer' tab, untick 'Disable Viewers inputs' then click ok.



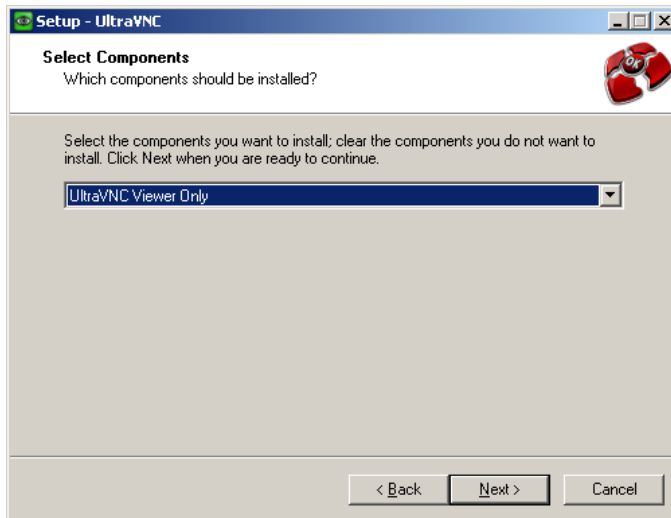
8. Reboot by going to Start > Shut Down > Select 'Restart' from the top drop down box and 'Application: Installation (Planned)' for the 'Option' drop down. Finally, click ok.



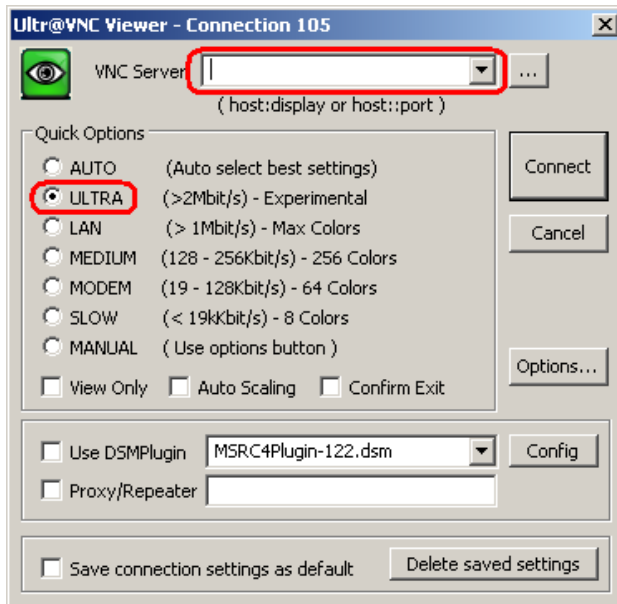
9. On your desktop computer, download UltraVNC from the following URL: <http://www.uvnc.com/download> . Upon clicking the download link, you'll want to ensure that you select the full option and then pick the top most win32 link.



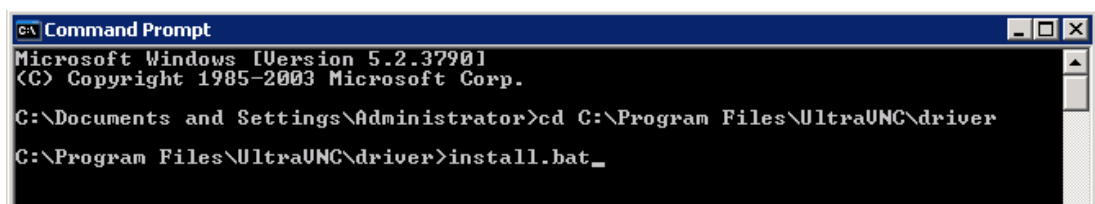
10. Start the installer and when prompted with the 'Select components' dialogue, select the 'UltraVNC Viewer only' from the drop down.



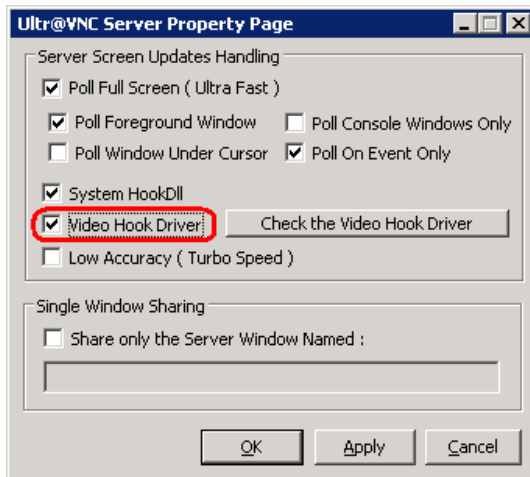
11. Once the installation is complete, you can then run it by navigating to start > UltraVNC > UltraVNC Viewer. Specify your VPS's IP address next to 'VNC Server:', select the Ultra option under 'Quick Options' then click connect.



12. On the VPS (using UltraVNC), open a command prompt window, change to the 'C:\Program Files\UltraVNC\driver' directory, execute 'install.bat' then close the command prompt.



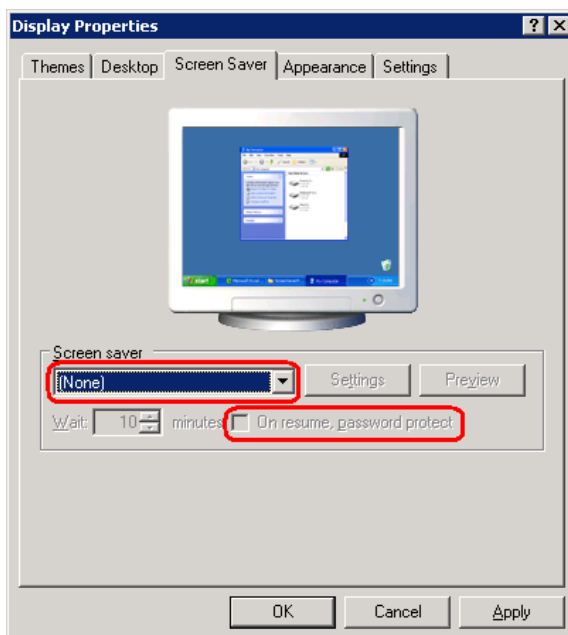
- Right click the eye icon (👁️) in the bottom right of the VNC session and select properties.  
Tick the 'Video Hook Driver' box then click Apply. In the event that it's already ticked, untick it, tick it again then click Apply. Finally, click ok to close the dialogue.



## 2 - Disabling the screen saver

To prevent automated mouse movements and keyboard input from being blocked, the screensaver must be disabled by performing the following.

- Right click on an empty space of the desktop and select properties
- Select the 'Screen Saver' tab, untick the 'On resume, password protect' then in the drop down under the label 'Screen saver' select '(None)'

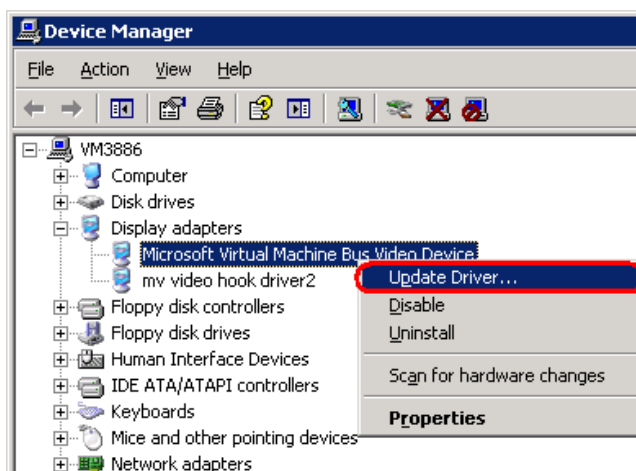


- Click ok

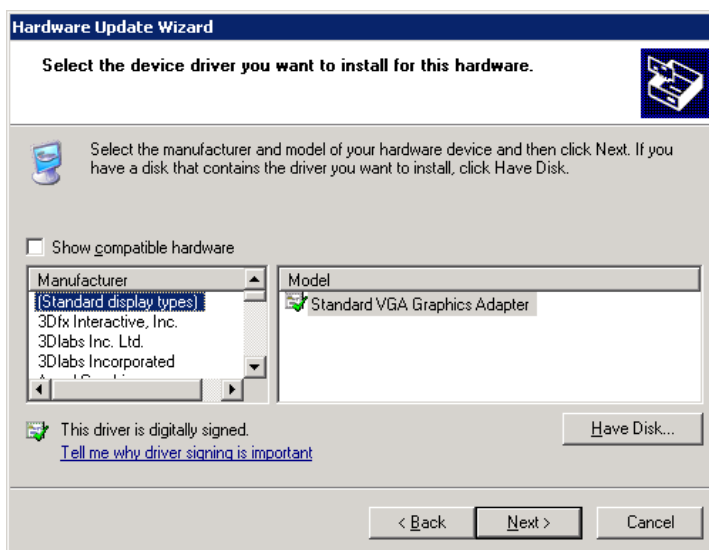
## 3 - Changing your desktop colour depth to 32 bit

Many screen scraping bots perform screen grabs of the casino application and compare those images to internal data. For this information to match up, the desktop colour must be set to 32 bit. The steps on how to do this are described below.

1. Navigate to Start > Settings > Control Panel > System > Select the 'Hardware' tab > Device Manager
2. Expand 'Display adapters' > right click 'Microsoft Virtual Machine Bus Video Device' and select 'Update Driver...'



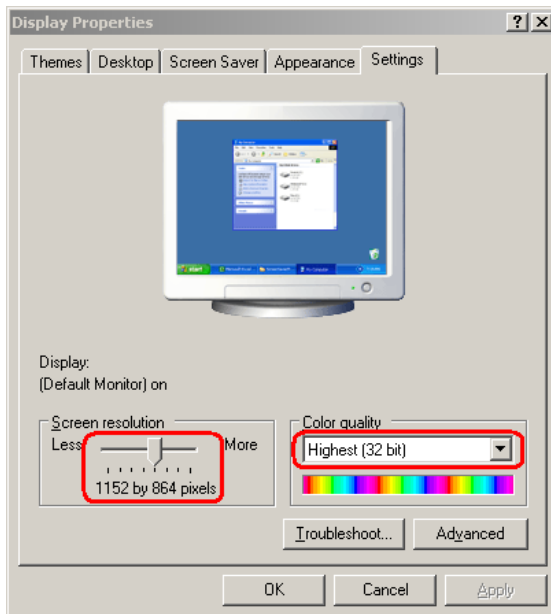
3. Select 'No, not this time' and click next > Select 'Install from a list or specific location (Advanced)' then click next > Select 'Don't search. I will choose the driver to install' then click next > untick the box labelled 'Show compatible hardware' > Scroll to the top of the manufacturers list and select '(Standard display types)' > On the left select 'Standard VGA Graphics Adapter'.



Click next > Click yes when prompted > Click finish to complete the wizard.

4. Ensure you have saved all your work and then click yes to restart the VPS.

5. Once the VPS has rebooted, reconnect via UltraVNC and logon. Right click on any empty space of the desktop and select properties.
6. Navigate to settings and then drag the slider under 'Screen Resolution' up to '1152 by 864 pixels'. Ensure that 'Highest (32 bit)' is selected under colour quality then click ok.

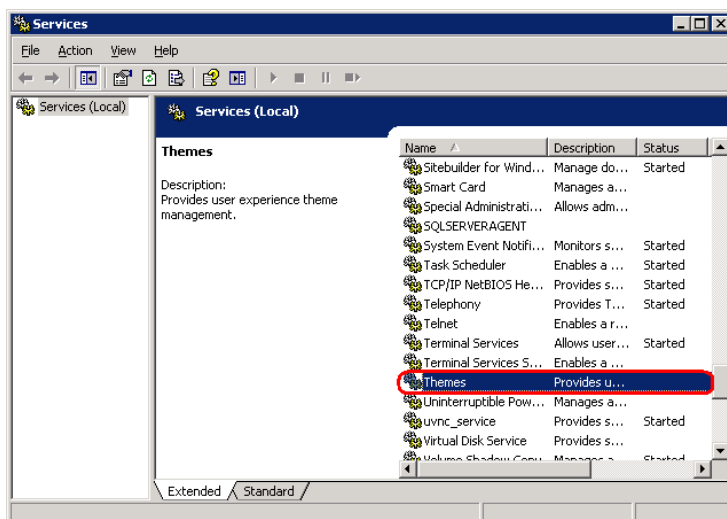


7. The screen will briefly freeze and then appear with a dialogue asking if you want to keep these changes, click yes to save them.

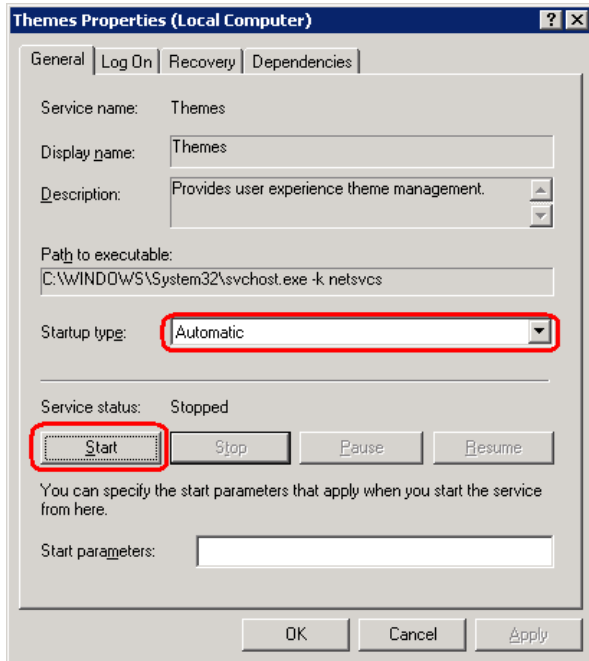
## 4 – (Optional) Enabling the Windows standard theme

Similar to part 3, certain bots require that images on the screen match those stored internally. To ensure this is the case, the standard Windows theme must be applied. This can be done by performing the following:

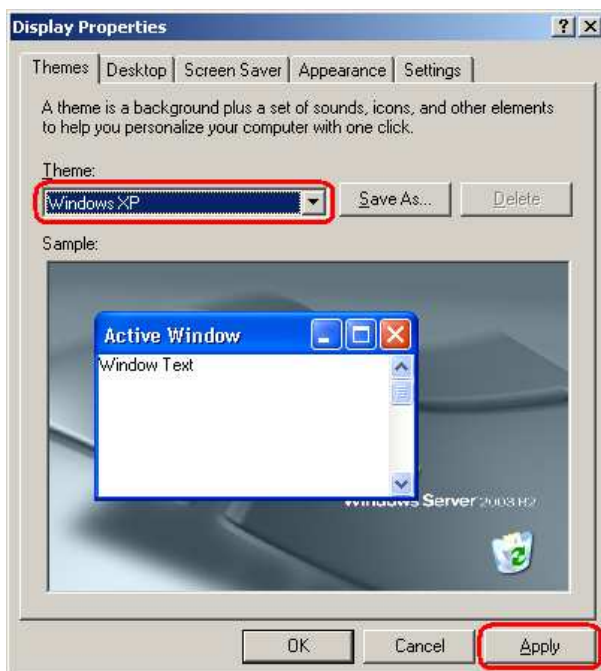
1. Navigate to start > Control Panel > Administrative Tools > Services
2. Scroll down the list until you see Themes under the name column



3. Right click themes, select Properties, select 'Automatic' from the 'Startup type' list, click apply then, within the 'Themes Properties' window, click 'Start' and then ok to dismiss the dialogue.



4. Right click on an empty space of the desktop and select properties
5. With the themes tab selected, select 'Windows XP' from the drop down under the label 'theme' and then click apply.



6. Select the desktop tab, scroll to the top of the list under the 'background' label, select '(None)' and then click ok. This step will help to improve the responsiveness of the VNC session.

