Rechner-Fernzugriff

von MS Windows® (Client) auf Ubuntu (Server)

Xming - Einzelne Programme (Fenster) auf den Windows Desktop holen

Quelle(n):

- http://laptops.eng.uci.edu/software-installation/using-linux/how-to-configure-xming-putty
- https://wiki.ubuntuusers.de/Xming/

Remote Desktop I - Eine sehr simple Lösung

Quelle(n):

- https://askubuntu.com/questions/592537/can-i-access-ubuntu-from-windows-remotely
- http://www.technig.com/remote-access-windows-10-via-ubuntu-vise-versa/

Umsetzung:

```
sudo apt-get update
sudo apt-get install xrdp
sudo apt-get install xfce4
echo "xfce4-session" >~/.xsession
sudo nano /etc/xrdp/startwm.sh

------------------
#!/bin/sh

if [ -r /etc/default/locale ]; then
  . /etc/default/locale
  export LANG LANGUAGE
fi

startxfce4
------------------

sudo service xrdp restart
```

Remote Desktop II - Eine bessere Lösung

UPDATE - 14.03.2018

Diese Version unterstützt u.A. die Verwendung der Zwischenablage
Quelle siehe unten - jedoch von mir ergänzt und um die richtige Erkennung der verwendeten Ubuntu LTS Version erweitert.

Quelle(n):

- http://c-nergy.be/blog/?p=10752 **SEHR WICHTIG!**
- http://c-nergy.be/blog/?p=11719 **UPDATE**

Umsetzung:

install-xrdp-1.9.2.sh

```
#!/bin/bash
#
#####################################################################
# Script_Name : install-xrdp-1.9.2.sh
# Description : Perform an automated custom installation of xrdp
# on ubuntu 16.04.4
# Date : March 2018
# written by : Griffon
# Web Site :http://www.c-nergy.be - http://www.c-nergy.be/blog
# Version : 1.9.2
# Disclaimer : Script provided AS IS. Use it at your own risk....
#####################################################################

#-----------------------------------------------------------------#
# Step 0 - Try to Detect Ubuntu Version and Unity....
#-----------------------------------------------------------------#
clear

#Checking Ubuntu Version

echo
/bin/echo -e
"\e[1;32m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
/bin/echo -e "\e[1;32m Dectecting Ubuntu Version and Desktop in
use...\e[0m"
/bin/echo -e
"\e[1;32m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"

version=$(lsb_release -d | awk -F":" '/Description/ {print $2}')

if [[ $version=*"Ubuntu 16.04"* ]]; then
echo

/bin/echo -e "\e[1;33m  Ubuntu Version :$version\e[0m"
```

```
else
/bin/echo -e
"\e[1;31m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
/bin/echo -e "\e[1;31mYour system is not running Ubuntu 16.04
Edition.\e[0m"
/bin/echo -e "\e[1;31mThe script has been tested only on Ubuntu
16.04.x...\e[0m"
/bin/echo -e "\e[1;31mThe script is exiting...\e[0m"
/bin/echo -e
"\e[1;31m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
echo
exit
fi

#Checking if Unity Desktop in Use

if [ "$XDG_CURRENT_DESKTOP"="Unity" ]
then
/bin/echo -e "\e[1;33m  Desktop interface Detected....:
$XDG_CURRENT_DESKTOP\e[0m"
echo
else
/bin/echo -e
"\e[1;31m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!\e[0m"
/bin/echo -e "\e[1;31mYour system is not running Unity Desktop
Interface.\e[0m"
/bin/echo -e "\e[1;31mThe script has been written to enable Unity
Desktop in remote session...\e[0m"
/bin/echo -e "\e[1;31mThe script is exiting...\e[0m"
/bin/echo -e
"\e[1;31m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!\e[0m"
exit
fi


#---------------------------------------------------#
# Step 1 - Download XRDP Binaries...
#---------------------------------------------------#

/bin/echo -e
"\e[1;32m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
/bin/echo -e "\e[1;32m Downloading xRDP binaries and tools...\e[0m"
/bin/echo -e
"\e[1;32m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
echo
/bin/echo -e "\e[1;33m  Installing Git....Proceeding  \e[0m"
echo
sudo apt-get -y install git
```

```
echo
cd ~/Downloads

## -- Download the xrdp latest files
echo
/bin/echo -e "\e[1;33m  Preparing download xrdp
package...Proceeding\e[0m"
echo
git clone https://github.com/neutrinolabs/xrdp.git
echo
/bin/echo -e "\e[1;33m  Preparing download xorgxrdp
package...Proceeding\e[0m"
echo
git clone https://github.com/neutrinolabs/xorgxrdp.git


#-----------------------------------------------------#
# Step 2 - Install Prereqs...
#-----------------------------------------------------#
echo
/bin/echo -e "\e[1;33m  Installing Prereqs....Proceeding\e[0m"
echo
sudo apt-get -y install libx11-dev libxfixes-dev libssl-dev libpam0g-
dev libtool libjpeg-dev flex bison gettext autoconf libxml-parser-perl
libfuse-dev xsltproc libxrandr-dev python-libxml2 nasm xserver-xorg-dev
fuse


#-----------------------------------------------------#
# Step 3 - Check if Fontutil.h file exists...
#-----------------------------------------------------#

#checking if file exists...
echo
/bin/echo -e "\e[1;33m  Checking fontutil.h file....Proceeding\e[0m"
echo

file="/usr/include/X11/fonts/fontutil.h"

if [ -f "$file" ]
then
echo
/bin/echo -e "\e[1;37m     Fontutil.h exist...Moving Next step
\e[0m"
echo
else
echo
/bin/echo -e "\e[1;37m     Fontutil.h will be created by
script...Proceeding  \e[0m"

echo
```

```
cat >/usr/include/X11/fonts/fontutil.h <<EOF
#ifndef _FONTUTIL_H_
#define _FONTUTIL_H_

#include <X11/fonts/FSproto.h>

extern int FontCouldBeTerminal(FontInfoPtr);
extern int CheckFSFormat(fsBitmapFormat, fsBitmapFormatMask, int *, int
*,
                         int *, int *, int *);
extern void FontComputeInfoAccelerators(FontInfoPtr);

extern void GetGlyphs ( FontPtr font, unsigned long count,
                        unsigned char *chars, FontEncoding
fontEncoding,
                        unsigned long *glyphcount, CharInfoPtr *glyphs
);
extern void QueryGlyphExtents ( FontPtr pFont, CharInfoPtr *charinfo,
                                unsigned long count, ExtentInfoRec
*info );
extern Bool QueryTextExtents ( FontPtr pFont, unsigned long count,
                               unsigned char *chars, ExtentInfoRec
*info );
extern Bool ParseGlyphCachingMode ( char *str );
extern void InitGlyphCaching ( void );
extern void SetGlyphCachingMode ( int newmode );
extern int add_range ( fsRange *newrange, int *nranges, fsRange
**range,
                       Bool charset_subset );

#endif /* _FONTUTIL_H_ */
EOF

fi

#---------------------------------------------------#
# Step 4 - compiling...
#---------------------------------------------------#
# -- Compiling xrdp package first

echo
/bin/echo -e
"\e[1;32m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
/bin/echo -e "\e[1;32mXRDP Compilation about to start !...
\e[0m"
/bin/echo -e
"\e[1;32m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
echo


cd ~/Downloads/xrdp
```

```
sudo ./bootstrap
sudo ./configure --enable-fuse --enable-jpeg
sudo make

#-- check if no error during compilation

if [ $? -eq 0 ]
then
echo
/bin/echo -e "\e[1;37m-----------------------------------\e[0m"
/bin/echo -e "\e[1;37mMake Operation Successful !        \e[0m"
/bin/echo -e "\e[1;37m-----------------------------------\e[0m"
echo
else
echo
/bin/echo -e
"\e[1;31m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
/bin/echo -e "\e[1;31mError while executing make.\e[0m"
/bin/echo -e "\e[1;31mThe script is exiting...\e[0m"
/bin/echo -e
"\e[1;31m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
echo
exit
fi
sudo make install

# -- Compiling xorgxrdp package first

echo
/bin/echo -e
"\e[1;32m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
/bin/echo -e "\e[1;32mxorgxrdp Compilation about to start !...
\e[0m"
/bin/echo -e
"\e[1;32m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
echo
cd ~/Downloads/xorgxrdp
sudo ./bootstrap
sudo ./configure
sudo make

# check if no error during compilation
if [ $? -eq 0 ]
then
echo
/bin/echo -e "\e[1;37m-----------------------------------\e[0m"
/bin/echo -e "\e[1;37mMake Operation Successful ! \e[0m"
/bin/echo -e "\e[1;37m-----------------------------------\e[0m"
echo
else
/bin/echo -e
```

```
"\e[1;31m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
/bin/echo -e "\e[1;31mError while executing make.\e[0m"
/bin/echo -e "\e[1;31mThe script is exiting...\e[0m"
/bin/echo -e
"\e[1;31m!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!\e[0m"
echo
exit
fi
sudo make install

#-----------------------------------------------------#
# Step 5 - create policies exceptions ....
#-----------------------------------------------------#

echo
/bin/echo -e "\e[1;33m  Creating Polkit file...Proceeding\e[0m"
echo

sudo bash -c "cat >/etc/polkit-1/localauthority.conf.d/02-allow-
colord.conf" <<EOF

polkit.addRule(function(action, subject) {
if ((action.id == “org.freedesktop.color-manager.create-device” ||
action.id == “org.freedesktop.color-manager.create-profile” ||
action.id == “org.freedesktop.color-manager.delete-device” ||
action.id == “org.freedesktop.color-manager.delete-profile” ||
action.id == “org.freedesktop.color-manager.modify-device” ||
action.id == “org.freedesktop.color-manager.modify-profile”) &&
subject.isInGroup(“{users}”)) {
return polkit.Result.YES;
}
});
EOF

#-----------------------------------------------------#
# Step 6 - configure Xwrapper file  ....
#-----------------------------------------------------#

echo
/bin/echo -e "\e[1;33m  Configuring
Xwrapper(optional)...Proceeding\e[0m"
echo

sudo sed -i 's/allowed_users=console/allowed_users=anybody/'
/etc/X11/Xwrapper.config

#-----------------------------------------------------#
# Step 7 - Populate the .xsession file multi-users  #
#-----------------------------------------------------#

echo
```

```
/bin/echo -e "\e[1;33m  Configuring startwm.sh for multi-users
login...Proceeding\e[0m"
echo

sudo sed -i.bak "/# auth /a cat >~/.xsession << EOF\n#Unity Xrdp multi-
users \n/usr/lib/gnome-session/gnome-session-binary --session=ubuntu
&\n/usr/lib/x86_64-linux-gnu/unity/unity-panel-service
&\n/usr/lib/unity-settings-daemon/unity-settings-daemon &\nfor
indicator in /usr/lib/x86_64-linux-gnu/indicator-
*;\ndo\nbasename='basename \\\\\${indicator}'\ndirname='dirname
\\\\\${indicator}'\nservice=\\\\\${dirname}/\\\\\${basename}/\\\\\${bas
ename}-service\n\\\\\${service} &\ndone\nunity\nEOF"
/etc/xrdp/startwm.sh

#-----------------------------------------------------#
# Step 8 - create services ....
#-----------------------------------------------------#
echo
/bin/echo -e "\e[1;33m  Creating xRDP Services...Proceeding\e[0m"
echo

sudo systemctl daemon-reload
sudo systemctl enable xrdp.service
sudo systemctl enable xrdp-sesman.service
sudo systemctl start xrdp

#-----------------------------------------------------#
# Step 9 - install additional pacakge ....
#-----------------------------------------------------#

echo
/bin/echo -e "\e[1;33m  Installing xserver-xorg-core
pacakges...Proceeding\e[0m"
echo
sudo apt-get -y install xserver-xorg-core

echo
/bin/echo -e "\e[1;33m  checking Virtualization
Platform...Proceeding\e[0m"
echo

vmversion=$(sudo dmidecode -s system-product-name)
echo $vmversion
if [ "$vmversion" = "VirtualBox" ]
then
        sudo apt-get -y install xserver-xorg-input-all
else
    echo "no additional package needed"
fi

/bin/echo -e "\e[1;32m-----------------------------------------------
```

```
---------\e[0m"
/bin/echo -e "\e[1;32mInstallation Completed\e[0m"
/bin/echo -e "\e[1;32mPlease test your xRDP configuration....\e[0m"
/bin/echo -e "\e[1;32mCheck c-nergy.be website for latest version of
the script\e[0m"
/bin/echo -e "\e[1;32mwritten by Griffon - March 2018 - Version
1.9.2\e[0m"
/bin/echo -e "\e[1;32m-----------------------------------------------
---------\e[0m"
echo
```

Nicht vergessen `install-xrdp-1.9.2.sh` mit `chmod +x install-xrdp-1.9.2.sh` auch ausführbar zu machen 😉

Remote Desktop III - Eine noch bessere Lösung

```
sudo su
add-apt-repository ppa:hermlnx/xrdp
apt-get update
apt-get install xrdp
```

von Ubuntu (Client) auf MS Windows® (Server)

Quelle(n):

- Windows Vista, 7, 8.x und 10 mit dem RDP Wrapper zum Terminalserver machen
- RDP Wrapper Library

Shutdown per Icon:

- Verknüpfung auf dem Desktop erzeugen
- Ziel: `C:\Windows\System32\shutdown.exe /s /t 0`

Reboot per Icon:

- Verknüpfung auf dem Desktop erzeugen
- Ziel: `C:\Windows\System32\shutdown.exe /r /t 0`

From:
https://www.von-thuelen.de/ - **Christophs DokuWiki**

Permanent link:
https://www.von-thuelen.de/doku.php/wiki/linux/remote_desktop

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