

# Setup xrdp as a Windows Terminal server (on Ubuntu 18.04 update)

## Source

To install xRDP, simply open a Terminal console. In the Terminal console, Browse to the location where the script has been stored and then issue the one of the following command based your requirements

- ./install-xrdp-2.2.sh

Use this command to install xrdp version 0.9.8. No additional features such as sound redirection and GDM lock screen fix will be implemented

- ./install-xrdp-2.2.sh -g yes

Use this command to install xrdp version 0.9.8. and to enable the GDM Lock screen fix

- ./install-xrdp-2.2.sh -s yes

Use this command to install xrdp version 0.9.8. and to enable sound redirection additionally

- ./install-xrdp-2.2.sh -s yes -g yes

Use this command to install xrdp version 0.9.8. and to enable all the additional features i.e. sound redirection and GDM lock screen fix

## install-xrdp-2.2.sh

```
#!/bin/bash
#####
#####
# Script _Name : install-xrdp-2.2.sh
# Description : Perform a custom installation of xrdp
# on ubuntu 18.04 and later
# Date : October 2018
# written by : Griffon
# Web Site :http://www.c-nergy.be - http://www.c-nergy.be/blog
# Version : 2.2
# History : 2.2 - Add Support for Ubuntu 18.10 and Yaru Theme
#           : 2.1 - Add logic to enable sound redirection for U18.04
#           - re-write code logic to include functions
#           - Removed support for Ubuntu 17.10 as reached end of
#             support
#           : 2.0 - Initial Version for Ubuntu system with Gnome Desktop
#           : 1.x - Script for Ubuntu 16.04 or later
# Disclaimer : Script provided AS IS. Use it at your own risk...
#####
#####
```

```
#-----#
# Detecting if Parameters passed to script ....
#-----#

while getopts g:s: option
do
  case "${option}"
  in
    g) fixGDM=${OPTARG} ;;
    s) fixSound=${OPTARG} ;;
    esac
done

#-----#
# Script Version information Displayed          #
#-----#


echo
/bin/echo -e "\e[1;36m   !-----"
-----!\e[0m"
/bin/echo -e "\e[1;36m   !  Custom XRDП Installation Script - Ver 2.2
!\e[0m"
/bin/echo -e "\e[1;36m   !  Written by Griffon - October 2018 -
www.c-nergy.be      !\e[0m"
/bin/echo -e "\e[1;36m   !-----"
-----!\e[0m"
echo

#-----#
----#
# -----Function Section - DO NOT MODIFY -----
----#
#-----#
----#



#-----#
# Function 1 - Install Prereqs...
#-----#


install_prereqs() {
echo
/bin/echo -e "\e[1;33m   !-----"
!\e[0m"
/bin/echo -e "\e[1;33m   !  Installing PreReqs packages..Proceeding.
! \e[0m"
/bin/echo -e "\e[1;33m   !-----"
!\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 xsllibproc libxrandr-dev python-libxml2 nasm xserver-xorg-dev
fuse pkg-config git intltool xserver-xorg-core

}

#-----#
# Function 2 - Download XRDPA Binaries...
#-----#
get_binaries() {

echo
/bin/echo -e "\e[1;33m   !-----"
!\e[0m"
/bin/echo -e "\e[1;33m   !   Download xRDP Binaries.....Proceeding.
!\e[0m"
/bin/echo -e "\e[1;33m   !-----"
!\e[0m"
echo

cd ~/Downloads

## -- Download the xrdp latest files
echo
/bin/echo -e "\e[1;32m   !-----"
!\e[0m"
/bin/echo -e "\e[1;32m   !   Preparing download xrdp package
!\e[0m"
/bin/echo -e "\e[1;32m   !-----"
!\e[0m"
echo
git clone https://github.com/neutrinoLabs/xrdp.git
echo
/bin/echo -e "\e[1;32m   !-----"
!\e[0m"
/bin/echo -e "\e[1;32m   !   Preparing download xorgxrdp package
!\e[0m"
/bin/echo -e "\e[1;32m   !-----"
!\e[0m"
echo
git clone https://github.com/neutrinoLabs/xorgxrdp.git

}

#-----#
# Function 3 - compiling xrdp...
#-----#
compile_source() {

# -- Compiling xrdp package first
```

```
echo
/bin/echo -e "\e[1;33m  !-----  
!\e[0m"
/bin/echo -e "\e[1;33m  !  Compile xRDP packages .....Proceeding.  
!\e[0m"
/bin/echo -e "\e[1;33m  !-----  
!\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
/bin/echo -e "\e[1;33m  |-| Make Operation Completed successfully  
\e[0m"

else
echo
echo
/bin/echo -e "\e[1;31m  !-----  
!\e[0m"
/bin/echo -e "\e[1;31m  !  Error while Executing make  
!\e[0m"
/bin/echo -e "\e[1;31m  !  The Script is exiting....  
!\e[0m"
/bin/echo -e "\e[1;31m  !-----  
!\e[0m"
exit
fi
sudo make install

echo
/bin/echo -e "\e[1;33m  !-----  
!\e[0m"
/bin/echo -e "\e[1;33m  !  Compile xorgxrdp packages....Proceeding.  
!\e[0m"
/bin/echo -e "\e[1;33m  !-----  
!\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;33m    |-| Make Operation Completed successfully
\e[0m"
echo
else
echo
/bin/echo -e "\e[1;31m    !-----#
!/e[0m"
/bin/echo -e "\e[1;31m    !    Error while Executing make
!/e[0m"
/bin/echo -e "\e[1;31m    !    The Script is exiting.....
!/e[0m"
/bin/echo -e "\e[1;31m    !-----#
!/e[0m"
exit
fi
sudo make install

}

#-----#
# Function 5 - create services ....
#-----#

enable_service() {
echo
/bin/echo -e "\e[1;33m    !-----#
!/e[0m"
/bin/echo -e "\e[1;33m    !    Creating xRDP services.....Proceeding.
! \e[0m"
/bin/echo -e "\e[1;33m    !-----#
!/e[0m"
echo

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

}

#-----#
# Function 6 - Install Gnome Tweak Tool....
#-----#

install_tweak()
{
```

```
echo
/bin/echo -e "\e[1;33m  !-----#
!\\e[0m"
/bin/echo -e "\e[1;33m  !  Installing Gnome Tweak...Proceeding...
! \\e[0m"
/bin/echo -e "\e[1;33m  !-----#
!\\e[0m"
echo
sudo apt-get install gnome-tweak-tool -y
}

#-----#
# Fucntion 7 - Allow console Access ....(seems optional in u18.04)
#-----#


allow_console()
{
echo
/bin/echo -e "\e[1;33m  !-----#
!\\e[0m"
/bin/echo -e "\e[1;33m  !  Granting Console Access...Proceeding...
! \\e[0m"
/bin/echo -e "\e[1;33m  !-----#
!\\e[0m"
echo
sudo sed -i 's/allowed_users=console/allowed_users=anybody/'
/etc/X11/Xwrapper.config
}

#-----#
# Function 8 - create policies exceptions ....
#-----#


create_polkit()
{
echo
/bin/echo -e "\e[1;33m  !-----#
!\\e[0m"
/bin/echo -e "\e[1;33m  !  Creating Polkit File...Proceeding...
! \\e[0m"
/bin/echo -e "\e[1;33m  !-----#
!\\e[0m"
echo

sudo bash -c "cat >/etc/polkit-1/localauthority/50-local.d/45-allow.colord.pkla" <<EOF
[Allow Colord all Users]
Identity=unix-user:*
Action=org.freedesktop.color-manager.create-device;org.freedesktop.color-manager.create-profile;org.freedesktop.color-manager.delete-
```

```
device;org.freedesktop.color-manager.delete-
profile;org.freedesktop.color-manager.modify-
device;org.freedesktop.color-manager.modify-profile
ResultAny=no
ResultInactive=no
ResultActive=yes
EOF

}

#-----#
# Function 9 - Fixing Theme and Extensions ....
#-----#


fix_theme()
{
echo
/bin/echo -e "\e[1;33m   !-----"
!\e[0m"
/bin/echo -e "\e[1;33m   !   Fix Theme and extensions...Proceeding...
!\e[0m"
/bin/echo -e "\e[1;33m   !-----"
!\e[0m"
echo

#Check if script has already run....
if grep -qx "#fixGDM-by-Griffon" /etc/xrdp/startwm.sh; then
  echo "Skip theme fixing as script has run at least once..."
else
#Set xRDP session Theme to Ambiance and Icon to Humanity if Ubuntu
18.04.x
if [[ "$version" = *"Ubuntu 18.04"* ]];
then
sudo sed -i.bak "4 a #fixGDM-by-Griffon\ngnome-shell-extension-tool -e
ubuntu-appindicators@ubuntu.com\ngnome-shell-extension-tool -e ubuntu-
dock@ubuntu.com\n\nif [ -f ~/.xrdp-fix-theme.txt ]; then\necho 'no
action required'\nelse\nsettings set org.gnome.desktop.interface gtk-
theme 'Ambiance'\nsettings set org.gnome.desktop.interface icon-theme
'Humanity'\necho 'check file for xrdp theme fix' >~/xrdp-fix-
theme.txt\nfi\n" /etc/xrdp/startwm.sh
#Set xRDP session Theme to Yaru and Icon to Suru if Ubuntu 18.10.x
elif [[ "$version" = *"Ubuntu 18.10"* ]];
then
sudo sed -i.bak "4 a #fixGDM-by-Griffon\ngnome-shell-extension-tool -e
ubuntu-appindicators@ubuntu.com\ngnome-shell-extension-tool -e ubuntu-
dock@ubuntu.com\n\nif [ -f ~/.xrdp-fix-theme.txt ]; then\necho 'no
action required'\nelse\nsettings set org.gnome.desktop.interface gtk-
theme 'Yaru'\nsettings set org.gnome.desktop.interface icon-theme
'Yaru'\necho 'check file for xrdp theme fix' >~/xrdp-fix-
theme.txt\nfi\n" /etc/xrdp/startwm.sh
else

```

```
echo "Error Occured somewhere...Exiting..."  
exit  
fi  
  
fi  
echo  
}  
  
#-----#  
# Function 10 - Fixing GDM - As an Option ....  
#-----#  
fix_gdm()  
{  
echo  
/bin/echo -e "\e[1;33m    !-----  
!\e[0m"  
/bin/echo -e "\e[1;33m    !  Fix for GDM Lock Screen color...  
!\e[0m"  
/bin/echo -e "\e[1;33m    !-----  
!\e[0m"  
echo  
# Step 1 - Install prereqs for compilation later on  
sudo apt-get -y install libglib2.0-dev-bin  
sudo apt-get -y install libxml2-utils  
  
# extract gresource info (from url...)  
workdir=${HOME}/shell-theme  
if [ ! -d ${workdir}/theme ]; then  
    mkdir -p ${workdir}/theme  
    mkdir -p ${workdir}/theme/icons  
  
fi  
gst=/usr/share/gnome-shell/gnome-shell-theme.gresource  
  
for r in `gresource list $gst`; do  
    gresource extract $gst $r >$workdir/${r#\!/org\!/gnome\!shell/}  
done  
  
/bin/echo -e "\e[1;33m    |-| Creating XML File...  \e[0m"  
# create the xml file  
bash -c "cat >${workdir}/theme/gnome-shell-theme.gresource.xml" <<EOF  
<?xml version="1.0" encoding="UTF-8"?>  
<resources>  
    <gresource prefix="/org/gnome/shell/theme">  
        <file>calendar-arrow-left.svg</file>  
        <file>calendar-arrow-right.svg</file>  
        <file>calendar-today.svg</file>  
        <file>checkbox-focused.svg</file>  
        <file>checkbox-off-focused.svg</file>  
        <file>checkbox-off.svg</file>  
        <file>checkbox.svg</file>
```

```
<file>close-window.svg</file>
<file>corner-ripple-ltr.png</file>
<file>corner-ripple-rtl.png</file>
<file>dash-placeholder.svg</file>
<file>gnome-shell.css</file>
<file>gnome-shell-high-contrast.css</file>
<file>no-events.svg</file>
<file>no-notifications.svg</file>
<file>noise-texture.png</file>
<file>page-indicator-active.svg</file>
<file>page-indicator-inactive.svg</file>
<file>page-indicator-checked.svg</file>
<file>page-indicator-hover.svg</file>
<file>process-working.svg</file>
<file>toggle-off-us.svg</file>
<file>toggle-off-intl.svg</file>
<file>toggle-on-hc.svg</file>
<file>toggle-on-us.svg</file>
<file>toggle-on-intl.svg</file>
</gresource>
</gresources>
EOF
cd ${workdir}/theme
/bin/echo -e "\e[1;33m    | -| Modify Css...  \e[0m"
sed -i -e 's/background: #2e3436/background: #2c00e1/g' ~/shell-
theme/theme/gnome-shell.css

##Delete the file noise-texture.png (grey one)
rm ${workdir}/theme/noise-texture.png

/bin/echo -e "\e[1;33m    | -| Download Purple image file...  \e[0m"
#Download the noise-texture.png with purple background
wget http://www.c-nergy.be/downloads/noise-texture.png

/bin/echo -e "\e[1;33m    | -| Compile Resource File...  \e[0m"
#Compile file and copy to correct location....
cd ${workdir}/theme
glib-compile-resources gnome-shell-theme.gresource.xml

/bin/echo -e "\e[1;33m    | -| Copy file to target location...  \e[0m"

# make a backup of the file and copy the file....
sudo cp /usr/share/gnome-shell/gnome-shell-theme.gresource
/usr/share/gnome-shell/gnome-shell-theme.gresource.bak
sudo cp ${workdir}/theme/gnome-shell-theme.gresource /usr/share/gnome-
shell/gnome-shell-theme.gresource
echo
}

#-----#
# Function 11 - Enable Sound Redirection ....
```

```
#-----#
enable_sound()
{
echo
/bin/echo -e "\e[1;33m    !-----#
!\\e[0m"
/bin/echo -e "\e[1;33m    !   Enabling Sound Redirection...
!\\e[0m"
/bin/echo -e "\e[1;33m    !-----#
!\\e[0m"
echo

# Step 1 - Install xrdp-pulseaudio-installer package
sudo apt-get install xrdp-pulseaudio-installer -y

# Step 2 - Enable Source Code Repository
sudo apt-add-repository -s 'deb http://be.archive.ubuntu.com/ubuntu/
'$codename' main restricted'
sudo apt-add-repository -s 'deb http://be.archive.ubuntu.com/ubuntu/
'$codename' restricted universe main multiverse'
sudo apt-add-repository -s 'deb http://be.archive.ubuntu.com/ubuntu/
'$codename'-updates restricted universe main multiverse'
sudo apt-add-repository -s 'deb http://be.archive.ubuntu.com/ubuntu/
'$codename'-backports main restricted universe multiverse'
sudo apt-add-repository -s 'deb http://be.archive.ubuntu.com/ubuntu/
'$codename'-security main restricted universe main multiverse'
sudo apt-get update

# Step 3 - Download pulseaudio source in /tmp directory
cd /tmp
sudo apt source pulseaudio

# Step 4 - Compile
pulsever=$(pulseaudio --version | awk '{print $2}')

cd /tmp/pulseaudio-$pulsever
sudo ./configure

# Step 5 - Create xrdp sound modules

cd /usr/src/xrdp-pulseaudio-installer
sudo make PULSE_DIR="/tmp/pulseaudio-$pulsever"

# Step 6 - copy files to correct location

sudo install -t "/var/lib/xrdp-pulseaudio-installer" -D -m 644 *.so
sudo install -t "/usr/lib/pulse-$pulsever/modules" -D -m 644 *.so
echo

}
```

```
#-----#
#-----#                               END Function Section
#-----#
#-----#
#-----#
#-----#                               MAIN SCRIPT SECTION
#-----#
#-----#
#-----#
#-----#
#-----#-----#
# Step 0 - Try to Detect Ubuntu Version....#
#-----#
version=$(lsb_release -sd)
codename=$(lsb_release -sc)

echo
/bin/echo -e "\e[1;33m      |-| Detecting Ubuntu version          \e[0m"
if [[ "$version" = *"Ubuntu 18.04"* ]];
then
/bin/echo -e "\e[1;32m      |-| Ubuntu Version : $version\e[0m"
echo
elif [[ "$version" = *"Ubuntu 18.10"* ]];
then
/bin/echo -e "\e[1;32m      |-| Ubuntu Version : $version\e[0m"
echo
else
/bin/echo -e "\e[1;31m  !-----\n-----!\e[0m"
/bin/echo -e "\e[1;31m  ! Your system is not running Ubuntu 18.04\nEdition and later !\e[0m"
/bin/echo -e "\e[1;31m  ! The script has been tested only on Ubuntu\n18.04 and later !\e[0m"
/bin/echo -e "\e[1;31m  ! The script is exiting...\n!\e[0m"
/bin/echo -e "\e[1;31m  !-----\n-----!\e[0m"
echo
exit
fi
```

```
/bin/echo -e "\e[1;33m    |-| Detecting Parameters          \e[0m"

#Detect if argument passed
if [ "$fixSound" = "yes" ];
then
/bin/echo -e "\e[1;32m      |-| Sound Redirection Option...:
[YES]\e[0m"
else
/bin/echo -e "\e[1;32m      |-| Sound Redirection Option...:
[N0]\e[0m"
fi

if [ "$fixGDM" = "yes" ];
then
/bin/echo -e "\e[1;32m      |-| gdm fix Option.....:
[YES]\e[0m"
else
/bin/echo -e "\e[1;32m      |-| gdm fix Option.....:
[N0]\e[0m"
fi
echo

#-----#
# Step 1 - Executing the installation & config tasks .... #
#-----#

echo
/bin/echo -e "\e[1;36m  !-----!
-----!\e[0m"
/bin/echo -e "\e[1;36m  !  Installation Process starting....!
!\e[0m"
/bin/echo -e "\e[1;36m  !-----!
-----!\e[0m"
echo
/bin/echo -e "\e[1;33m  |-| Proceed with installation....!
\e[0m"
echo

install_prereqs
get_binaries
compile_source
enable_service
install_tweak
allow_console
create_polkit
fix_theme

if [ "$fixGDM" = "yes" ];
then
```

```
fix_gdm
fi

if [ "$fixSound" = "yes" ];
then
enable_sound
fi

#-----#
# Step 2 - Credits ....
#-----#
echo
/bin/echo -e "\e[1;36m-----"
-----#\e[0m"
/bin/echo -e "\e[1;36m# Installation Completed
#\e[0m"
/bin/echo -e "\e[1;36m# Please test your xRDP configuration.A Reboot
Might be required...      #\e[0m"
/bin/echo -e "\e[1;36m# Written by Griffon - October 2018 - Ver 2.2 -
Std-Xrdp-Install-2.2.sh #\e[0m"
/bin/echo -e "\e[1;36m-----"
-----#\e[0m"
echo
```

From:  
<https://wiki.plecko.hr/> - **Eureka Moment**



Permanent link:  
[https://wiki.plecko.hr/doku.php?id=linux:misc:xrdp\\_ubuntu\\_18.10](https://wiki.plecko.hr/doku.php?id=linux:misc:xrdp_ubuntu_18.10)

Last update: **2019/10/31 09:05**