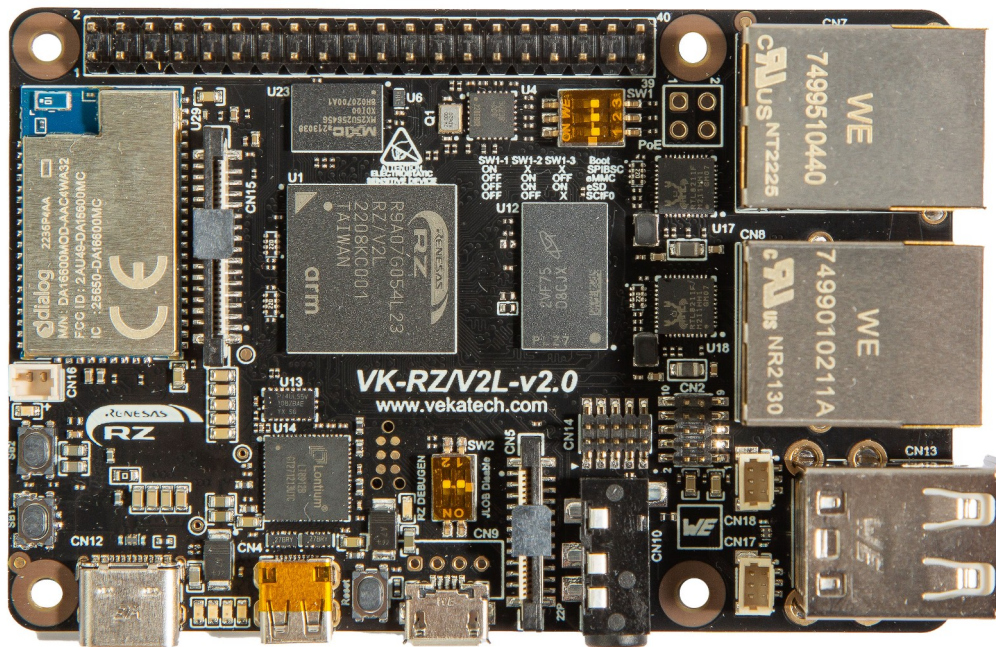


VK-RZ/V2L How To run RDP in Yocto



VK-RZ/V2L v2.0 Board



How To run RDP in Yocto

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How To run RDP in Yocto

1. Introduction

[VK-RZ/V2L](#) is industrial oriented board, compatible with Raspberry Pi 4 shields. It is based on [Renesas R9A07G054L23GBG](#), **Dual ARM Cortex-A55 + Cortex-M33 MCU**. The main purpose of this manual is to show how to connect to this board through **Remote Desktop** application using the **RDP Protocol**. For more info about this board, please read the full [manual](#).

2. Solution

First, make sure **rdp-backend.so** is available in **/usr/lib64/libweston**. If not, flash the vkrzv2l board with the image that contains it (**core-image-weston-vkrzv2l-rdp.simg**) using the [vkPyFlasher](#) tool. For more info how to use that tool, checkout vkPyFlasher's [manual](#).

Second, modify the **weston** service. The way to do it, is to add **2 ExecStartPre** lines in the **weston@.service** file, located at **/lib/systemd/system**. The content of that file should look like this:

[Unit]

```
Description=Weston Wayland Compositor
RequiresMountsFor=/run
Conflicts=plymouth-quit.service
After=systemd-user-sessions.service plymouth-quit-wait.service
```

[Service]

```
User=%i
PAMName=login
EnvironmentFile=-/etc/default/weston
StandardError=journal
PermissionsStartOnly=true
IgnoreSIGPIPE=no

ExecStartPre=/bin/sh -c "if [ ! -f /etc/xdg/weston/rdp.crt ] || [ ! -f
/etc/xdg/weston/rdp.key ]; then openssl req -newkey rsa:2048 -nodes -keyout
/etc/xdg/weston/rdp.key -x509 -days 3650 -out /etc/xdg/weston/rdp.crt -subj
\"/C=BG/ST=Plovdiv/L=Plovdiv/O=Vekatech/OU=info@vekatech.com/CN=vkrzv2l\";
fi"
```



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```
ExecStartPre=/bin/sh -c "echo 'OPTARGS=\"--backend=rdp-backend.so --rdp-tls-cert=/etc/xdg/weston/rdp.crt --rdp-tls-key=/etc/xdg/weston/rdp.key --no-config\"' > /etc/default/weston"
```

```
ExecStart=/usr/bin/weston-start -v -e --$OPTARGS
```

- To try if the **RDP** is working, restart the board:

reboot.

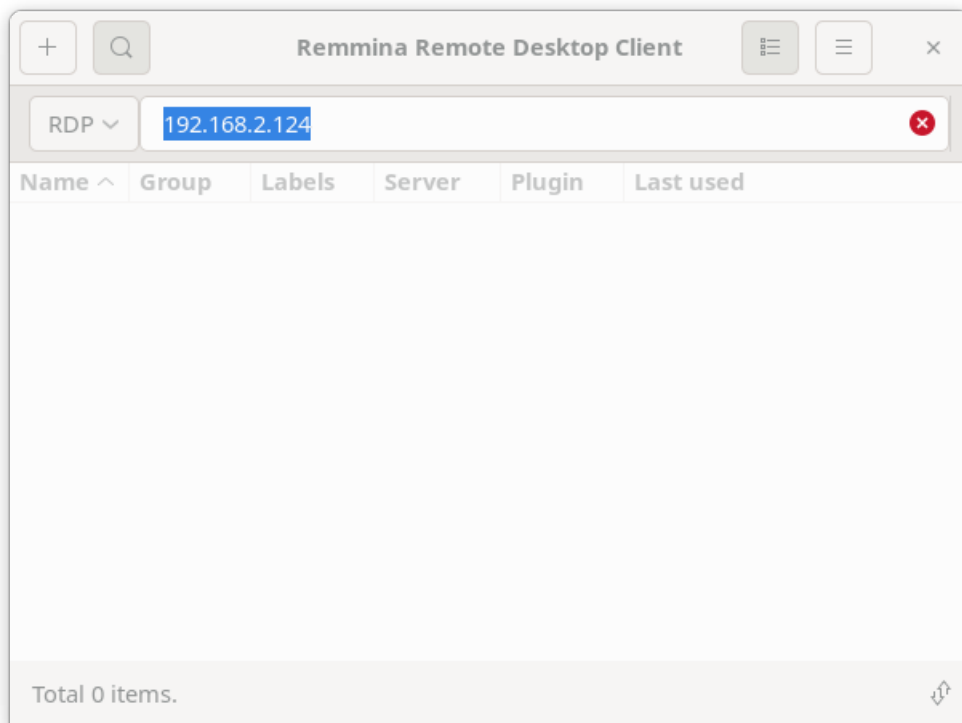
→ Check what IP is assigned to the board:

ifconfig.

→ On the Host PC, open the RDP client.

Remmina.

→ Use that IP in the RDP client and press Enter.

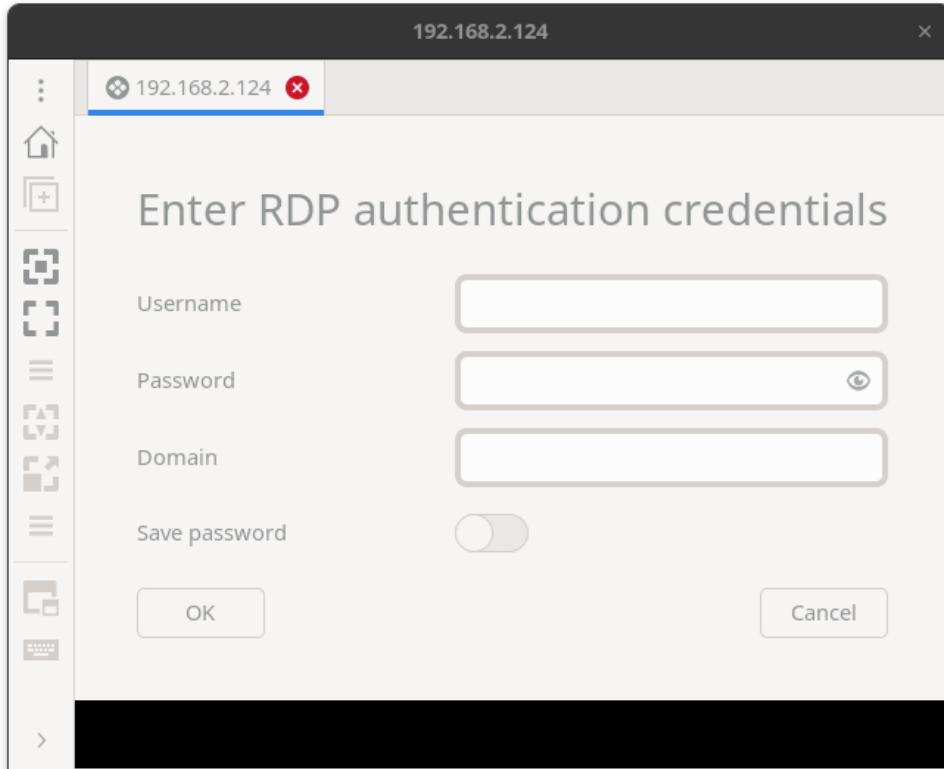


Remmina App

→ When asked for username and password just press OK

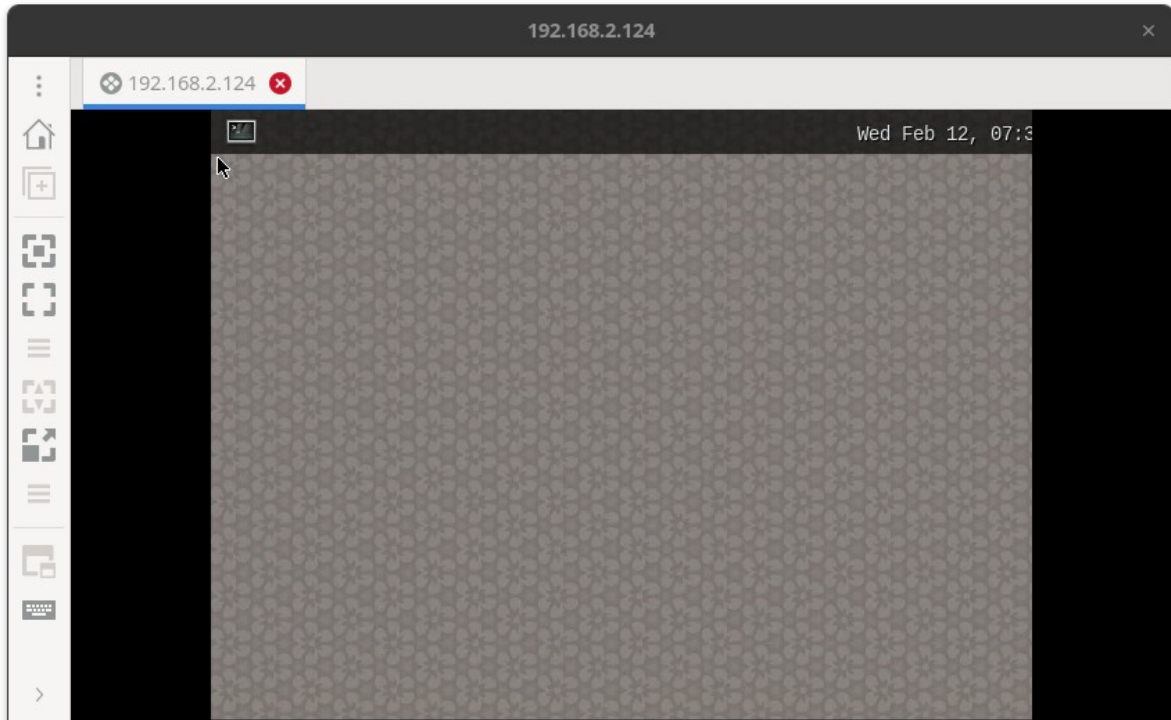


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Login to Yocto

→ You should now see the Yocto's Desktop shell



Remote Yocto Desktop shell



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Revision overview list

Revision number	Description changes
0.1	Initial

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