

VectraNetwork en Termux

Installation and execution guide on Android

This guide explains how to install and run the Vectrad node of VectraNetwork on an Android device using Termux. It is geared towards users with little command-line experience. It is recommended to follow the steps in the order shown.

Prerequisites

Requisito	Detalles
Android movile	arm64 / aarch64 architecture (most modern mobile phones)
Termux	Install from F-Droid (recommended) or Play Store
Internet access	To install packages and connect to the Vectra network
File .tar.gz	VectraNetwork binary for Linux arm64

Step 1 - Install Termux and grant storage permissions

Download Termux from F-Droid (<https://f-droid.org>). Once installed, open the application and run the following commands to update the packages and grant access to the device's storage:

```
pkg update && pkg upgrade
termux-setup-storage
```

Warning: When you run termux-setup-storage, a pop-up window will appear requesting storage permission. You must click Allow to access the files on the device.

Step 2 - Download the .tar.gz file

Download the VectraNetwork-linux-arm64.tar.gz file from the project's official website. You can download it from Termux using wget, or from your mobile browser (it will be saved in your Downloads folder).

Option A - Download from Termux:

```
cd ~/storage/downloads wget
https://url-oficial-de-vectra/VectraNetwork-linux-arm64.tar.gz
```

Option B - Already downloaded with the browser:

```
# Verify that the file is in Downloads ls
~/storage/downloads/
```

Step 3 - Unzip the file

Navigate to the folder where the file is located and extract it:

```
cd ~/storage/downloads tar -xzf
VectraNetwork-linux-arm64.tar.gz ls #
The extracted folder should appear.
```

After extracting, you will see a folder called VectraNetwork-linux-arm64. Inside, you should find the vectrad binary and a libs folder with the necessary libraries.

Step 4 - Install proot-distro and Ubuntu

The vectrad binary is compiled for standard Linux, but Termux is not a full Linux distribution. It is necessary to install proot-distro, which creates an Ubuntu environment within the device.

```
pkg install proot-distro
proot-distro install ubuntu
```

Once Ubuntu is installed, enter the environment with:

```
proot-distro login ubuntu
```

If the Ubuntu environment has started successfully, the prompt will change to: root@localhost:~#

Step 5 - Copy the files to the home directory

Android storage does not allow direct execution of binaries (noexec restriction). It is necessary to copy the binary and libraries to the Ubuntu environment's home directory, where execution is permitted.

```
# Copy the binary "cp"
/storage/emulated/0/Download/VectraNetwork-linux-arm64/vectrad ~/vectrad

# Copy the libraries folder cp -r
/storage/emulated/0/Download/VectraNetwork-linux-arm64/libs ~/libs
```

If the file was downloaded to DCIM or another folder, adjust the path accordingly. Example:
/storage/emulated/0/DCIM/VectraNetwork-linux-arm64/vectrad

Step 6 - Prepare the libraries

The libs folder may contain a libc.so.6 file that conflicts with the system file. It must be removed before proceeding. The library path is configured below:

```
# Remove the conflicting libc if it
exists

rm ~/libs/libc.so.6

# Configure the export library path
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:~/libs
```

To make the configuration permanent, add it to the .bashrc file: echo
'export LD_LIBRARY_PATH=\$LD_LIBRARY_PATH:~/libs'
>> ~/.bashrc

Step 7 - Create the data folder and run Vectrad

```
# Create data folder (example: nodeA)

mkdir ~/nodeA

# Give execution permissions

chmod +x ~/vectrad

# Execute the core

./vectrad \
--datadir /root/nodeA \
--bind 0.0.0.0 \
--port 8333 \
--rpcport 8332 \
--loglevel info \
--addnode bilbao1-node.duckdns.org:8333
```

It is recommended to create a specific folder for the node data. Next, grant execute permissions to the binary and start the node. If the node starts successfully, log messages will begin to appear on the screen and the node will connect to the VectraNetwork.

Quick Reference - Most Used Commands

```
# Entering the Ubuntu environment from Termux

proot-distro login ubuntu

# Configure libraries (if not in .bashrc)

export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:~/libs

# Execute node

./vectrad --datadir /root/nodeA --bind 0.0.0.0 --port 8333 --rpcport 8332
--loglevel info --addnode bilbao1-node.duckdns.org:8333

# Exiting the Ubuntu environment

exit
```