

Redmi Note 8

Codename: ginkgo

To find product name : fastboot getvar product

Telegram groups:

t.me/rn8discussions

t.me/RedmiNote8Official

Forum XDA

<https://forum.xda-developers.com/redmi-note-8>

TWRP

<https://forum.xda-developers.com/redmi-note-8/how-to/guide-unlocking-bootloader-twrp-rooting-t4031831>

- TWRP Official :

<https://forum.xda-developers.com/t/recovery-official-twrp-teamwin-recovery-redmi-note-8.4301393/>

Unlocking phone

<https://forum.xda-developers.com/t/guide-all-about-unlocking-bootloader-twrp-and-rooting-redmi-note-8-8t.4031831/>

USB Debugging (with security)

This requires root, shell access with su, and a way to edit text files as root. I used Termux and an android root file manager that can edit text files.

First, run the following command (su first, to switch to root):

```
setprop persist.security.adbinstall 1
```

If you also want to enable "USB debugging (Security settings)", for granting permissions, simulating UI input, etc. via ADB, run the following command too:

```
setprop persist.security.adbinput 1
```

Next, we need to edit the file

```
/data/data/com.miui.securitycenter/shared_prefs/remote_provider_preferences.xml
```

so that MIUI actually lets us do these things:

Add the following line to the XML file (with all the other ones, before the closing tag):

```
<boolean name="security_adb_install_enable" value="true" />
```

TWRP

Was in TWRP 3.3.1-9

To install the correct TWRP version, check the "base" of the TWRP indicated after the version number. E.G. :

`twrp-3.6.2_9-0-ginkgo.img` is a base Android 9-0

`twrp-3.5.2_10-2-ginkgo.img` is a base Android 10-2

`twrp-3.7.0_12-1-ginkgo.img` is a base Android 12-1

Some Android versions cannot decrypt your data folder because of incompatibility issues. Simply downgrade to a lower Android base TWRP.

- Enter Fastboot to install latest TWRP

```
# To check current recovery tool (with phone powered up)
adb reboot recovery

# Boot to recovery
adb reboot bootloader
```

```
# Confirm correctly in fastboot
fastboot devices
# Install latest TWRP
cd "/home/wes/Documents/Cellulaires-ROMs/Redmi Note 8"
fastboot flash recovery twrp-3.7.0_12-1-ginkgo.img
# Shutdown phone then "Volume Up + Power" to enter recovery
fastboot reboot
```

First time installation

You might need to use Lineage OS recovery the first time to initialize a factory reset. Simply follow the instruction here : <https://wiki.lineageos.org/devices/ginkgo/install/variant1#installing-a-custom-recovery-using-fastboot>

Sideload the custom ROM rather than Lineage.

ArrowOS

- Boot in recovery
- Wipe data, cache, dalvik cache
- Flash latest android-11 firmware (Ginkgo | Willow)

```
adb push Arrow-v13.1-ginkgo-OFFICIAL-20230829-GAPPS.zip /sdcard
```

- Flash ROM zip
- Format data (if encrypted)
- Reboot
- Configure system manually
- Install Magisk for root

```
adb reboot recovery
adb sideload Magisk.v26.3.apk
```

No need to follow this, simply install by sideloading + app within OS

Since Redmi Note 8 has no ramdisk, a special guide is required.

- Install the Magisk app from the official git repo.
- Push installed recovery locally : `adb push twrp-3.7.0_12-1-ginkgo.img /sdcard/Documents/`
- Execute Magisk app
- Press the Install button on the Magisk card.

- Enable "Recovery Mode" under Options
- Choose "Select and Patch a File" under Method, and select the local recovery image.
- Retrieve the patched image locally : adb pull
/sdcard/Download/magisk_patched_[random_strings].img
- Reboot in fastboot and flash recovery : fastboot flash recovery
/path/to/magisk_patched.img
- Configure Magisk
 - Settings/Systemless hosts
 - Settings/Zygisk
- Install Magisk Modules

microG installer : https://github.com/nift4/microg_installer_revived

safetynet fix : <https://github.com/kdrag0n/safetynet-fix>

```
# microG
adb push microG_Installer_Revived.zip /sdcard/Documents/
# Google safetynet fix
adb push safetynet-fix-v2.4.0.zip /sdcard/Documents/
```

- Install EasySSHFS
<https://github.com/bobrofon/easysshfs/releases>
adb push easysshfs-0.5.10-release-signed.apk /sdcard/Documents/
- Install neo-backup
<https://github.com/NeoApplications/Neo-Backup/releases> adb push
Neo_Backup_release_832.apk /sdcard/Documents/

Reconfigure some apps

Some apps require to re-login after restoration :

- Banks (Wise ; Desjardins)
- eMails (Proton ; Tutanota ; etc)
- Social apps (Instagram ; Viber ; Signal ; Telegram ; etc)
- Music (Deezer)
- xMatters

Some interesting modules

<https://github.com/Magisk-Modules-Repo/ssh>

Lineage OS

<https://wiki.lineageos.org/devices/ginkgo/variant1/>

Boot to Fastboot/bootloader

```
adb reboot bootloader
```

Flash vbmeta file (to disable boot security feature)

```
fastboot --disable-verity --disable-verification flash vbmeta vbmeta.img
```

Flash and boot to recovery TWRP

```
fastboot flash recovery twrp-3.3.1-9-ginkgo-mauronofrio.img  
fastboot boot twrp-3.3.1-9-ginkgo-mauronofrio.img
```

Format Data

```
TWRP > Wipe > Format Data (not in advanced mode) - No reboot to system
```

Reboot in recovery

```
TWRP > Reboot > Recovery
```

Wipe again

```
TWRP > Wipe > Advanced > Cache, data, dalvik, system
```

Flash Disable_DM-Verity_ForceEncrypt

```
https://forum.xda-developers.com/android/software/universal-dm-verity-forceencrypt-t3817389/
```

Flash ROM

Flash Magisk

Reboot to ROM

Reboot to recovery

Generate and Install Smali Patcher module in Magisk

Flash nanodroid setup (to configure nanodroid) - doesn't works.

Flash nanodroid

Source:

<https://forum.xda-developers.com/showpost.php?p=81403899&postcount=37>

Install smali patcher for signature spoofing

<https://forum.xda-developers.com/apps/magisk/module-smali-patcher-0-7-t3680053>

Baseband

Version

Firmware	Baseband (BAR_GEN_PACK)
V11.0.8.0.PCOMIXM	1.252721.1.260983.1
V11.0.7.0.PCOMIXM	1.246073.2.252721.1
20.1.16 (China)	1.241207.1.242935.1
V11.0.6.0.PCOMIXM	1.239860.1.241207.1
V11.0.3.0.PCOMIXM	1.223797.1.225109.3

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