

Android Root

Rooting the Device

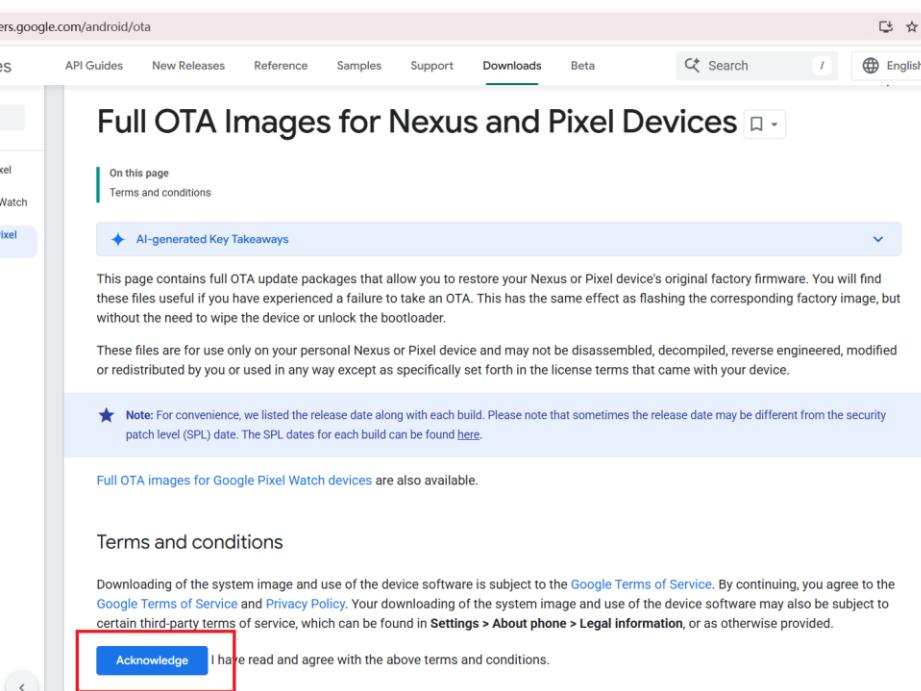
Note: Rooting allows system-level modification. Please proceed carefully and back up your data before starting.

Part 1. Unlock Bootloader

1. Go to Settings → About Phone → Build Number.
2. Tap it 7 times to enable Developer Options.
 - o Go to Settings → Developer Options → OEM Unlocking, turn it ON.
 - o Connect your phone to a PC with ADB installed.
 - o Run the following commands in terminal:
adb reboot bootloader
fastboot flashing unlock
 - o Use the phone's volume keys to confirm unlock.

Part 2. Flash Magisk Patched Boot Image

- o Download the correct factory image for your phone model.
<https://developers.google.com/android/images>



The screenshot shows a web browser displaying the Google Developers website at developers.google.com/android/images. The page title is "Full OTA Images for Nexus and Pixel Devices". On the left, there's a sidebar with links like "Factory Images for Nexus and Pixel Devices", "Factory Images for Google Pixel Watch Devices", "Full OTA Images for Nexus and Pixel Devices" (which is highlighted with a red box), "Full OTA Images for Google Pixel Watch Devices", and "Driver Binaries". The main content area has a heading "Full OTA Images for Nexus and Pixel Devices" with a dropdown menu. Below it, there's a section titled "On this page" with "Terms and conditions". A callout box labeled "AI-generated Key Takeaways" is overlaid on the page. The main text explains that these files allow restoring the original factory firmware without wiping the device or unlocking the bootloader. It also notes that the files are for personal use only. A note at the bottom states that release dates may differ from security patch levels. A blue "Acknowledge" button with a red border is overlaid on the "Terms and conditions" section, with the text "I have read and agree with the above terms and conditions." to its right.

- o Extract the boot.img file.
- o Patch it using the Magisk App on the phone.
- o Transfer the patched file back to your PC and flash it:
fastboot flash boot magisk_patched.img
- o Reboot your device

Part 3. Verify Root Access

- o Open Magisk App.

- It should show “Installed” with the latest version number.
- You can also install Root Checker from Google Play to verify.

BCR Installation Guide (Magisk Version)

Part 1. Download BCR.zip

Go to our Github download the BCR.zip file.

Part 2. Open Magisk → Modules → Install from Local Storage

1. Go back to Magisk main screen.
2. Tap **Modules** (bottom navigation bar).
3. Tap **Install from local storage**.
4. Select the BCR ZIP file you downloaded earlier.
5. Wait for the installation to finish, then **reboot** the device.

LSPosed Installation Guide (Zygisk Version)

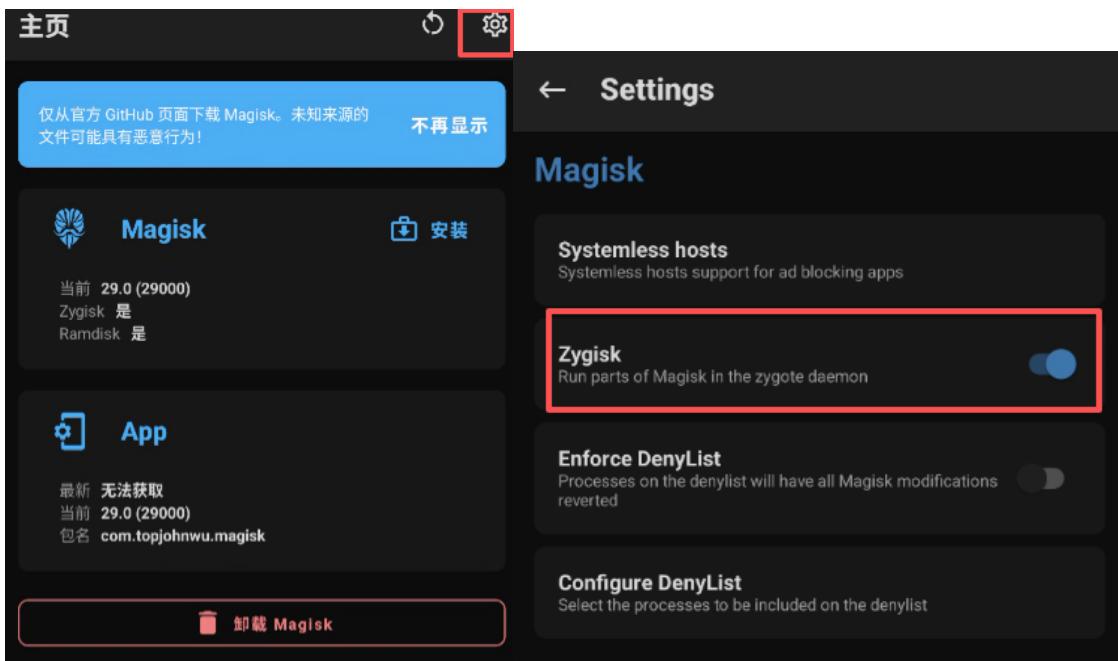
Part 1. Download LSPosed Module (Zygisk Version)

Go to our Github download the LSPosed compressed file.

 CODING_STYLE_GUIDE.md	Create CODING_STYLE_GUIDE.md	2 months ago
 Dify.postman_collection.json	Update Dify.postman_collection.json	last month
 LSPosed-v1.10.2-7182-zygisk-release.zip	Upload the zoomhook module apk and Lsposed framework ...	1 minute ago
 MultimodalMonitoringIntegration.zip	Connect the Dify to Zoom backend, and some minor bug fix	3 days ago
 README.md	Add Official Coding Style Guide for Android Development	2 months ago
 ZoomHook.apk	Upload the zoomhook module apk and Lsposed framework ...	1 minute ago

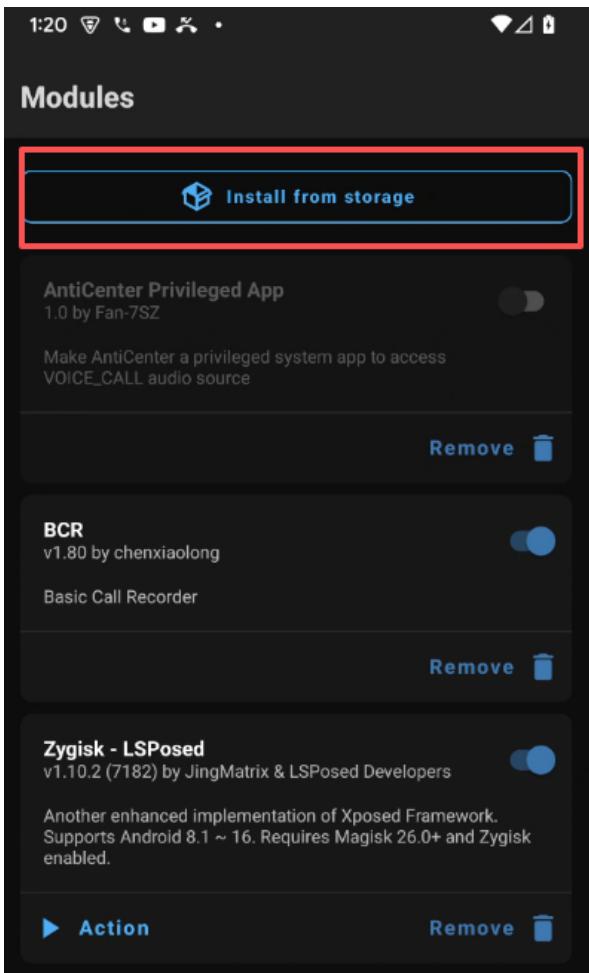
Part 2. Open Magisk → Settings → Enable Zygisk

1. Open Magisk App.
2. Tap the Settings icon () on the top-right corner.
3. Scroll down and find Zygisk.
4. Turn it ON (toggle switch).
5. Reboot your phone to apply the change.



Part 3. Open Magisk → Modules → Install from Local Storage

6. Go back to Magisk main screen.
7. Tap **Modules** (bottom navigation bar).
8. Tap **Install from local storage**.
9. Select the LSPosed ZIP file you downloaded earlier.
10. Wait for the installation to finish, then **reboot** the device.



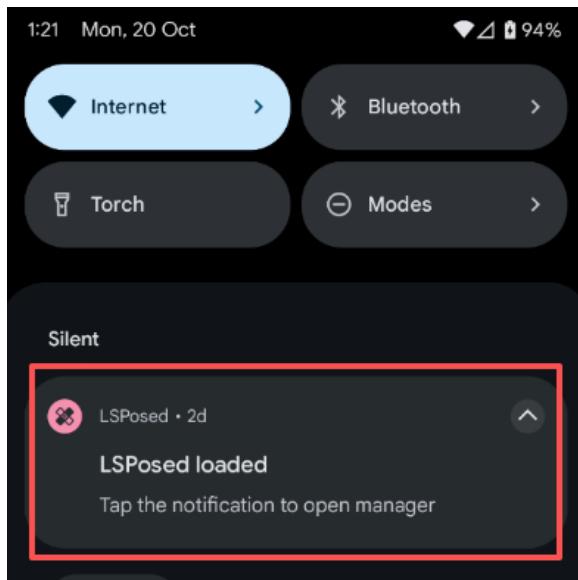
Part 4. After Reboot → Verify LSPosed Loaded Successfully

Once the phone reboots, check the **notification bar**.

You should see a notification:

" LSPosed has been loaded."

If the notification doesn't appear, you can manually open LSPosed Manager by dialing this code in the phone dialer: ***#*#5776733#*#***



Part 5. Check LSPosed Activation Status

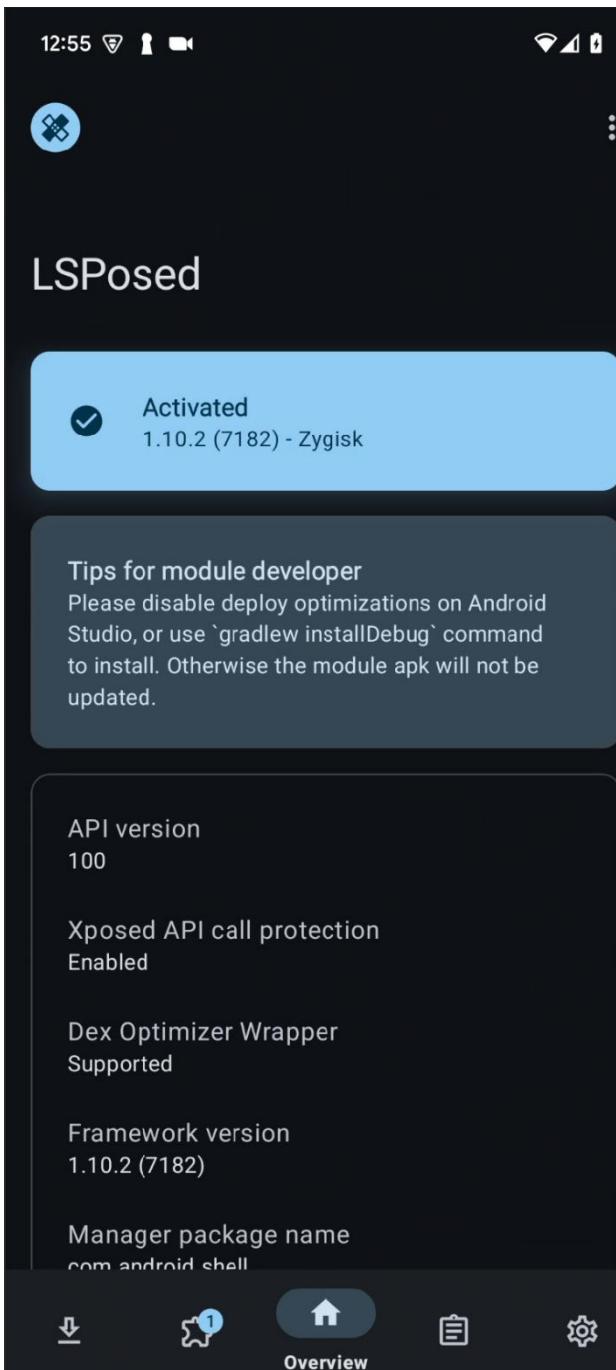
Open LSPosed Manager (Click LSPosed in the notification bar) → Main Page.

If it shows:

Activated

Version: 1.10.2 (7182) -Zygisk

then the installation was successful! 🎉



ZoomHook Installation & Configuration Guide

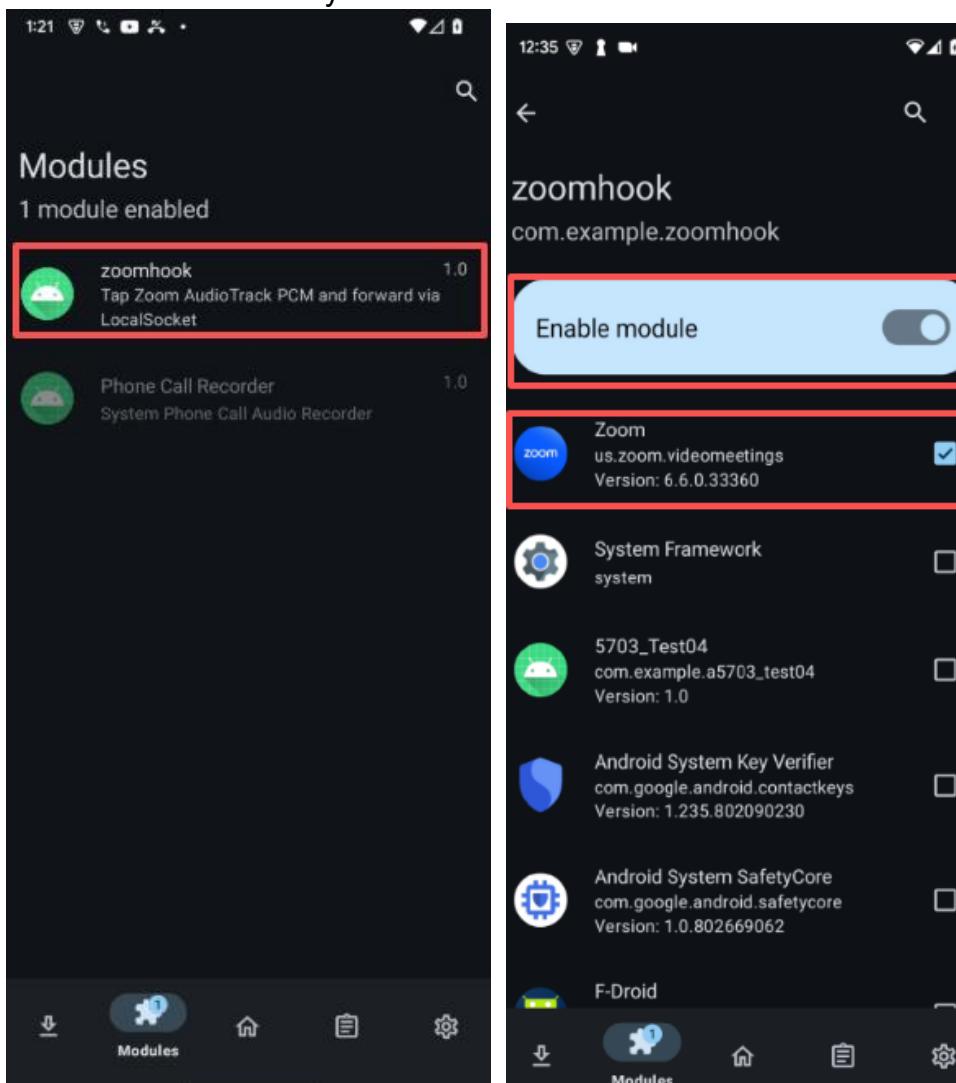
Part 1. Download and Install ZoomHook

1. Go to our **GitHub repository** and download the latest **ZoomHook APK file**.
2. Open the APK file on your phone and install it directly (you may need to allow “Install from unknown sources”).

.DS_Store	RD dependency	last month
CODING_STYLE_GUIDE.md	Create CODING_STYLE_GUIDE.md	2 months ago
Dify.postman_collection.json	Update Dify.postman_collection.json	last month
LSPosed-v1.10.2-7182-zygisk-release.zip	Upload the zoomhook module apk and Lsposed framework ...	28 minutes ago
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README.md	Add Official Coding Style Guide for Android Development	2 months ago
ZoomHook.apk	Upload the zoomhook module apk and Lsposed framework ...	28 minutes ago

Part 2. Enable ZoomHook in LSPosed

1. Open the **LSPosed Manager** app.
2. Go to the **Modules** tab — you will see the **ZoomHook** module listed.
3. Tap on **ZoomHook**.
4. Turn on the “**Enable module**” switch.
5. In the list of apps, **check only the Zoom app** (us.zoom.videomeetings) to apply the hook exclusively to Zoom.



Part 3. Verification

After enabling ZoomHook for the Zoom app:

- Launch Zoom and join any meeting.
- The module will automatically start **capturing both uplink and downlink audio** through the internal PCM hook.
- Our **ZoomCapService** will then detect these PCM files, convert them to WAV, and send them to the backend for analysis.

 Tip: You can check whether ZoomHook is active by looking for its log output or confirming that new PCM files appear under
`/sdcard/Android/data/us.zoom.videomeetings/files/ZoomAudio/`