

Installation of HarmonyOS



Installation steps of HarmonyOS

step 1 – Check Device Compatibility

Use the “My Huawei” app or visit Huawei’s official website to check if your device supports HarmonyOS.

Only proceed if your device is listed as compatible to avoid errors or instability.

Step 2 – Update "My Huawei" App and Create a Huawei ID

Update the “My Huawei” app via AppGallery to ensure you have the latest version.

If you don’t have a Huawei ID, register with your name, phone/email, and verify it to enable access to updates.

Step 3 – Navigate to HarmonyOS and Download

Open the updated “My Huawei” app, go to the HarmonyOS section, and choose your device’s update version.

Tap “Download” and ensure you're connected to Wi-Fi to complete the process smoothly.

Step 4 – Back Up Your Data

Use Huawei Cloud or external storage (PC, USB OTG) to back up photos, contacts, apps, and important files.

You can also use HiSuite to perform a full system backup before proceeding.

Step 5 – Install HarmonyOS

Go to Settings > System & Updates > Software Update and tap “Install” if the package is ready. The device will reboot, install the system, and automatically start HarmonyOS after 10–30 minutes.

Step 6 – Post-Installation Verification

After the reboot, check Settings > About Phone to confirm HarmonyOS is installed. Restore your backup, explore new features, and check for any additional updates.

- Although HarmonyOS is not natively available on Windows PCs but can be tested through DevEco Studio’s emulator.
Installation may fail midway due to system requirements, incomplete SDK setup, or lack of virtualization support. So I tried to download, install and do system call implementation through DevEco but it stopped me in half way of installing DevEco. The following are steps to install and snipped pictures of installing DevEco until it stopped working:

Step 1 – Install DevEco Studio

Download DevEco Studio from the [Huawei Developer website](#).
Run the installer and complete the setup process on your computer.

Step 2 – Set Up the Development Environment

Open DevEco Studio and use the SDK Manager to install HarmonyOS SDK packages.
Ensure all required tools like JDK, CMake, and GN are properly configured.

Step 3 – Create a New HarmonyOS Project

Start a new project using a HarmonyOS template in ArkTS or Java.
Set the project name and target device to generate the project files.

Step 4 – Launch the Emulator

In Device Manager, create and start a virtual device with the desired specifications.
Wait for the HarmonyOS emulator to fully boot up.

Step 5 – Build and Run the App

Click “Run” to compile and deploy your app on the emulator.
Use the virtual environment to test and debug your HarmonyOS application.

```
HP@DESKTOP-RSE93IU UCRT64 ~
$ pacman -S mingw-w64-ucrt-x86_64-gcc~
error: target not found: mingw-w64-ucrt-x86_64-gcc~

HP@DESKTOP-RSE93IU UCRT64 ~
$ pacman -S mingw-w64-ucrt-x86_64-gcc
resolving dependencies...
looking for conflicting packages...

Packages (16) mingw-w64-ucrt-x86_64-binutils-2.44-1
mingw-w64-ucrt-x86_64-crt-git-12.0.0.r509.g079e6092b-1
mingw-w64-ucrt-x86_64-gcc-libs-14.2.0-2
mingw-w64-ucrt-x86_64-gettext-runtime-0.23.1-1 mingw-w64-ucrt-x86_64-gmp-6.3.0-2
mingw-w64-ucrt-x86_64-headers-git-12.0.0.r509.g079e6092b-1
mingw-w64-ucrt-x86_64-isl-0.27-1 mingw-w64-ucrt-x86_64-libiconv-1.18-1
mingw-w64-ucrt-x86_64-libwinpthread-git-12.0.0.r509.g079e6092b-1
mingw-w64-ucrt-x86_64-mpc-1.3.1-2 mingw-w64-ucrt-x86_64-mpfr-4.2.1-2
mingw-w64-ucrt-x86_64-windows-default-manifest-6.4-4
mingw-w64-ucrt-x86_64-winthreads-git-12.0.0.r509.g079e6092b-1
mingw-w64-ucrt-x86_64-zlib-1.3.1-1 mingw-w64-ucrt-x86_64-zstd-1.5.7-1
mingw-w64-ucrt-x86_64-gcc-14.2.0-2

Total Download Size: 65.83 MiB
Total Installed Size: 518.74 MiB

:: Proceed with installation? [y/n]
```

```
mingw-w64-ucrt-x86_64-libwinpthread-git-12.0.0.r509.g079e6092b-1
mingw-w64-ucrt-x86_64-mpc-1.3.1-2 mingw-w64-ucrt-x86_64-mpfr-4.2.1-2
mingw-w64-ucrt-x86_64-windows-default-manifest-6.4-4
mingw-w64-ucrt-x86_64-winthreads-git-12.0.0.r509.g079e6092b-1
mingw-w64-ucrt-x86_64-zlib-1.3.1-1 mingw-w64-ucrt-x86_64-zstd-1.5.7-1
mingw-w64-ucrt-x86_64-gcc-14.2.0-2

Total Download Size: 65.83 MiB
Total Installed Size: 518.74 MiB

:: Proceed with installation? [y/n] y
:: Retrieving packages...
mingw-w64-ucrt-x86_64-binu... 6.0 MiB 236 KiB/s 00:26 [#####] 100%
mingw-w64-ucrt-x86_64-head... 6.3 MiB 214 KiB/s 00:30 [#####] 100%
mingw-w64-ucrt-x86_64-gcc-... 1022.7 KiB 202 KiB/s 00:05 [#####] 100%
mingw-w64-ucrt-x86_64-isl-... 1453.5 KiB 43.1 KiB/s 00:34 [#####] 100%
mingw-w64-ucrt-x86_64-zstd... 642.3 KiB 81.8 KiB/s 00:08 [#####] 100%
mingw-w64-ucrt-x86_64-libi... 725.4 KiB 44.6 KiB/s 00:16 [#####] 100%
mingw-w64-ucrt-x86_64-mpfr... 535.7 KiB 74.9 KiB/s 00:07 [#####] 100%
mingw-w64-ucrt-x86_64-mpc-... 128.3 KiB 238 KiB/s 00:01 [#####] 100%
mingw-w64-ucrt-x86_64-gmp-... 430.1 KiB 190 KiB/s 00:00 [#####] 74%
mingw-w64-ucrt-x86_64-gcc-... 10.3 MiB 484 KiB/s 01:10 [#####] 23%
mingw-w64-ucrt-x86_64-gett... 111.9 KiB 34.2 KiB/s 00:05 [#####] 35%
mingw-w64-ucrt-x86_64-crt-... 3.1 MiB 101 KiB/s 00:14 [#####] 68%
mingw-w64-ucrt-x86_64-zlib-1.3.1-1-anyMiB 270 KiB/s 02:16 [#####] 45%
Total ( 8/16) 30.7 MiB 855 KiB/s 00:42 [#####] 46%
```

```
HP@DESKTOP-RSE93IU UCRT64 ~
$ gcc --version
gcc.exe (Rev2, Built by MSYS2 project) 13.2.0
gcc.exe (Rev2, Built by MSYS2 project) 14.2.0
Copyright (C) 2024 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

-bash: syntax error near unexpected token `Rev2,'

HP@DESKTOP-RSE93IU UCRT64 ~
$ |
```