Here's a precise cross-debugging workflow for ARM on x86\_64:

Compilation Stage:

# Compile with debugging symbols

arm-linux-gnueabi-gcc -g -o main sample.c

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Debugging Setup:

# Start QEMU with GDB server enabled

qemu-arm -g 1234 -L /usr/arm-linux-gnueabi ./main

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Start a new terminal to debug

# Start multiarch GDB

gdb-multiarch ./main

# Inside GDB

(gdb) set architecture arm

(gdb) target remote localhost:1234