I first opened ghidra and went to main 🡪 check\_password 🡪 then I found the string compare (strcmp)

A screenshot of a computer program

Description automatically generated

Next, I opened a terminal, and chmod +x ./l2\_aarch64

I then ran “qemu-aarch64 -L /usr/aarch64-linux-gnu/ -g 1234 •/12\_aarch64 fake\_fl

ag\_gianna” in one terminalA screenshot of a computer

Description automatically generated

I then opened another terminal and ran “gdb-multiarch -q --nh-ex 'set architecture aarch64' -ex 'target remote localhost: 1234'

A computer screen shot of a program

Description automatically generated

Next, I made a breakpoint at main (b\* main), and then I made the program continue © so it would break at main

A screen shot of a computer code

Description automatically generated

After that, I disassembled main to find check password

A screen shot of a computer program

Description automatically generated

I then made a breakpoint at check password (b\* check\_password) and then continued (c) the program and then I disassembled check\_password (disas check\_password) to find the string compare

A computer screen shot of a computer code

Description automatically generated

I then found the string compare in the check\_password disassembly

A screen shot of a computer screen

Description automatically generated

I then set a breakpoint at the string compare (strcmp) and continued the program (c) and then I checked the info registers to find the flag in check\_password

A screenshot of a computer

Description automatically generatedA screenshot of a computer code

Description automatically generated

I then examined x0 and x1 and found my fake flag as well as the actual flag

A black background with white text

Description automatically generated

I then checked to make sure I got the flag correct

A screen shot of a computer

Description automatically generated