Compiling and running the RISC-V Test

Step 1(Tool Chain setup in Ubtunu VM):

Download RISC-V GNU Tool Chain with
```
$ git clone https://github.com/riscv/riscv-gnu-toolchain
```

cd into the file via the terminal

configure the RISC-V GNU Tool Chain run:
```
$ sudo apt-get install autoconf automake autotools-dev curl python3
python3-pip libmpc-dev libmpfr-dev libgmp-dev gawk build-essential
bison flex texinfo gperf libtool patchutils bc zlib1g-dev
libexpat-dev ninja-build git cmake libglib2.0-dev
```

Install and link the newlib:
```
./configure --prefix=/opt/riscv
```

Run the Makefile with:
```
make
```

Step 2(Make arbitrary c file):

Here's a sample:
main.c
```
#include <stdio.h>
#include <string.h>
int main(int argc, char *argv[]){
  printf("Congratulations on getting your first flag!!\n");
}
```

Step 3(Compile the c file):

Compile the c file with:
riscv64-unknown-elf-gcc -o main.elf main.c

Note the output file must be a .elf file to be run directly as a challenge

Step 4(Create a challenge GitHub repo):

1. Create a dojo.yml file:

Sample:

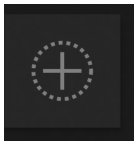
```
id: example
//Challenge name
name: Example Dojo

description: |
  This is an [example dojo](https://github.com/pwncollege/example-dojo).
  Fork this repository, and create your own dojo!

type: example
//module name and challenge name
modules:

  - id: main
    name: main
    description: The first module in this example dojo.

    challenges:
      - id: main
        name: main
        description: This is main.
```

2. Create a directory folder
3. Store the compiled c file in the directory folder
4. Push to GitHub

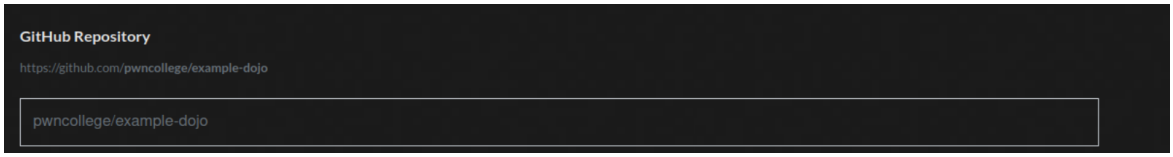
Step 5(Adding & Running the challenges):

1. Go to http://pwniot.cacti.academy/
2. Login as admin (username: admin password: admin)
3. Click Dojos

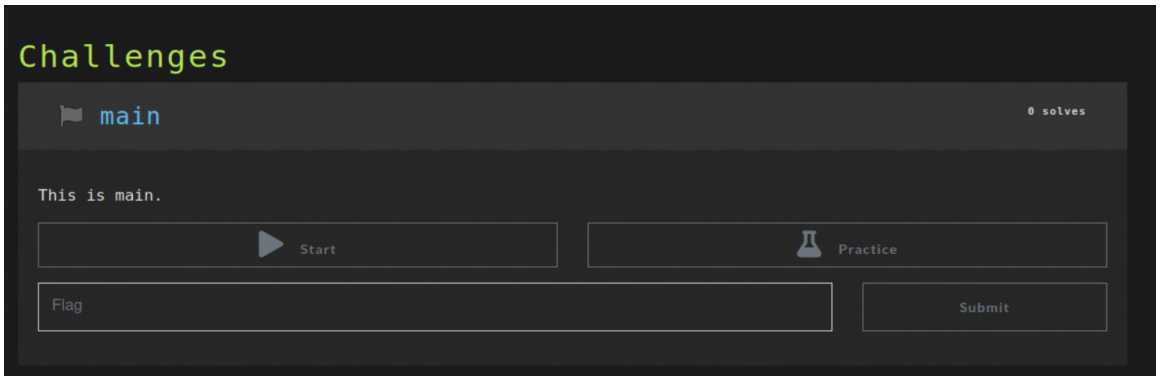
4. Click the (+) button



5. Add your github repo

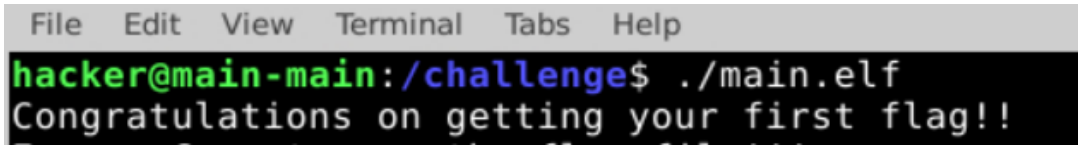


6. Click the corresponding challenges and modules
7. Start the challenge



8. Go to Workspace(Vscode) or Desktop(VM). Pick the one you prefer
9. Run cd /challenge
10. Do ls to see a list of challenges
11. Run the challenge using ./challenge_name.elf
12. Check the corresponding output

    Ex:



Sample RISC-V Challenge Repo:

https://github.com/AnUnknownStranger/AnUnknownStranger-RISCV