

## Tutorial 0x0008

## Task 1: Stack Based Buffer Overflow Analysis using gdb

Implement the code given below.

```
#include <string.h>
#include <stdio.h>
int main(int argc, char** argv)
         argv[1] = (char*)"ABCDEFGHIJKLMNOPQRSTUVWXYZ";
         char buffer[8];
         strcpy(buffer, argv[1]);
printf("Buffer Address :%p\n", buffer);
return 0;
```

Save the code as "day8 ex1.c" and generate executable output and

```
Compile: gcc -fno-stack-protector -z execstack day8 ex1.c -o
day8_ex1
```

- I. Load the program to gdb-peda and analyse the code
- II. What is the value expected to be in the RIP register at the end of the execution of this program?
- III. Replace the vulnerable strcpy() with strncpy() and analyse how this will eliminate the buffer overflow vulnerability