

**I&M Inter University Cyber Security Contest - 20th November 2020**

**Theme: Back to Basics**

Dear All,

Welcome to I & M Inter University Cyber Security Contest, 2020. This is an instruction manual on how to start and finish the contest. There are **FOUR FLAGS** in total to be captured. Once you capture a Flag, you send the Flag contents, i.e. “Flag1.XXXXXXXXXXXXXXXX” to [elijahsyoyi2010@gmail.com](mailto:elijahsyoyi2010@gmail.com) and cc [iso@imbank.co.ke](mailto:iso@imbank.co.ke).

The expected solutions are in the following format:-

Flag1=Flag1.XXXXXXXXXXXXXXXX

Flag2=Flag2.XXXXXXXXXXXXXXXX

Flag3=XXXXXXX

Flag4=Flag4.XXXXXXXXXXXXXXXX

Your reference point is the file manager at “http://10.50.240.97/filemanager” where all the necessary details, hints and resources for each flag are hosted. The idea is you solve Flag1, send the flag to [iso@imbank.co.ke](mailto:iso@imbank.co.ke), then you proceed to the second one until the fourth flag.

You don’t necessarily have to go in order from solving Flag1 to 4. You can solve in random order. Only the final flag depends on solving the first three. However, if you can solve it without the first solving the first three flags, then that is good as well…

The details are in the file manager, named as Flag1, up to Flag4.

The theme of this year is “Back to Basics”. The original definition of a hacker is “a computer expert who uses his/her own methodology and knowledge, to achieve a goal or solve a problem by use of non- standard means. The key points are non-standard means and problem solving. In this test, knowledge of common tools within security distributions such as Kali-Linux is good, and are definitely tested in this challenge. However, they are not necessarily a must. I am interested in how you approach and solve a problem completely outside the box using your own thinking and how you can research a solution to a problem within a short period of time. You are allowed to do research on the Internet on how you can solve a problem. I have designed the challenge to be as cross-platform as possible, hence conducive for all operating systems. If you have a Mac, you will just be ok…

**Awarding of marks:-**

In the case where the fourth flag is captured, the following will be the marking scheme:-

|  |  |
| --- | --- |
| 1st to capture Flag4 | Position 1: 1000 points |
| 2nd to capture Flag4 | Position 2: 995 points |
| 3rd to capture Flag4 | Position 3: 990 points |

In cases where Flag4 is not captured at all or only captured by one or two player(s), then the following matrix will be used to determine the winners:-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1st Capture | 100 | 200 | 300 | 400 |
| 2nd Capture | 80 | 185 | 290 | 390 |
| 3rd Capture | 60 | 170 | 280 | 380 |
|  | Flag1 | Flag2 | Flag3 | Flag4(Inactive) |

All the best, and good luck.