**TeamMCR:**

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**Fuzzing:**

Uploaded Fuzz.py to perfrom fuzzy test. We chose five functions from the component ‘scanner.py’.

They are ‘isValidUserName()’, ‘isValidPasswordName()’, ‘isValidKey()’, ‘ checkIfValidSecret()’, ‘checkIfValidKeyValue()’. Each function has been confined and only specified input can go through the execution. All functions’ input values are strings. The input and output values are shown below:

1. The ‘isValidUserName()’ takes a string as input, then checks the input value with constant values to see if it is getting any matching (constant values be treated as a substring of input string). After checking the input data format, if it’s a correct string type then continually execute to match strings. The return value is either ‘True’ or ‘False’.

2. The ‘IsValidpasswordName()’ function’s execution process is like the first one. The only difference is that using different constant comparison lists.

3. The ‘IsValidKey()’ is the same as the previous two functions.

4. The ‘CheckIfValidSecret()’ function’s input is a string too. It transformed input letters to lowercase and removed spaces if there were any. Then do matching and return ‘True’ or ‘False'.

5. The ‘CheckIfValidKeyValue()’ function’s logic is similar to the first one above.

**Results:**

No bugs were detected. Obtained correct results. Below are the screenshots.

**A screenshot of a computer

Description automatically generated**

**Forensics:**

We have implemented Logging\_4c.py it has the giveMeLoggingObject()function that provides a way creation of logging object using logging module. Function sets up a basic configuration for the logging object, including the format of log message and the file to which the logs will be written.

All the logs got stored in the logger.log.

**A screenshot of a computer

Description automatically generated**