



# Cymptom<sup>©</sup>

Assume nothing.  
Question everything.

Candidate Task

## MSRPC using Python

In the following task you're going to use MSRPC protocol (Microsoft implementation of DCERPC) in order to write a system for managing accounts of a remote Windows machines (both local and domain accounts).

In specific, you will use MS-SAMR interface API which provides managements functionality for an account store or directory. You will find any information regarding the interface in the following [link](#).

You are **not** required to implement the whole MS-SAMR interface. Most of the work was already done for you by [Impacket](#) project. The project contains an implementation for most MSRPC interfaces with examples and test cases.

Your system should support the following functionality:

1. Create a new local user\group
2. Retrieve all users\groups
3. Delete a user\group

The command will be received by the user and the system will operate accordingly.

For start, try to implement a piece of code for the following [example](#). This example emphasizes the sequence of methods required in order to create a user account on a remote system. You will need to understand each function, how does it work, and the relevant structures involved.

Next, extend it to fully support all the functionality required.

### Requirements

- You should be using Python 3.6+
- You are required to write your code using OOP concepts
- Try to document your code as much as possible

Good luck!