Cloud Project

Objective: To execute code in target machine.

Keywords:

1. Target Machine: This is the machine from which we will get the code into source machine. The code execution will take place on this machine.
2. Source Machine: This is the machine from which we will make changes in the code. From this machine, we should have the capabilities to execute the code in target machine.

Steps to follow:

1. **Get the code from target to source machine.**
2. **Make the changes in the code.**
3. **Send code back to the target machine.**
4. **Execute the code on target.**

1) Get the code from target to source machine.

- **a.** Make a shared folder on target machine.
- **b.** Sync it with GitHub.
- **c.** Write a script that can update the contents of shared folder on GitHub.
- **d.** Once the code is updated on GitHub, start listening for remote connection, so that connection can be established with source machine.
- **e.** This script(target.py) should do:
  - **i.** Update the contents of folder with GitHub.
  - **ii.** Start listening for connections.

2) Make the changes in the code.

- **a.** Now the code is on GitHub, now from GitHub, get the code into source machine using a script.
- **b.** Make changes to the code.

3) Send code back to the target machine.

- **a.** This step will automatically be performed when we try to execute the code on target machine.
- **b.** The idea is, we will have a script in source machine, as an input, we file give file name to the script. Now script(source.py) will take care of these things:
  - **i.** Upload new code on shared GitHub repo from source machine.
  - **ii.** Command the remote(target) to download the code from GitHub.
  - **iii.** Command the remote(target) to execute the downloaded code.
  - **iv.** Get the outputs of the terminal and show it to the source machine.
  - **v.** (This part can be done by the client-server files which I showed in the library)