Distributed Systems TDA596 Pre-Assignment

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1 Task 1

Task 1 handles the basic python exercises given by Google

1) Went through the basic Python course given by Google.

2) Went through the three basic tasks and I have included the three files (string1.py, list1.py and wordcount.py).

2 Task 2

This is task 2, answering six questions about the Seattle platform.

1) A platform for networking and distributed systems meant to test and run code for a distributed system of machines.

2) A vessel is a virtual machine that the code can be run on.

3) The language is RePy which is a modification of Python. It is a scaled down version of Python to make sure some modules can not be used with it. This is because of security issues.

4) The full command is "python <path to repy.py><path to restrictions file><path to source file>" where <path to repy.py>points towards the installation of repy. <path to restrictions file>points towards the restrictions.test file and <path to source file>points towards the actual source file we want to run.

5) To run a program with the Vessels (Virtual Machines), one have to first start the manager seash that is used with Seattle. This is started with the command "python seash.py".

After this one has to log in with a key that was obtained at the Seattle Clearinghouse website. Both the public and the private key has to be placed in the directory where seash is run. The commands to load these through seash is first "loadkeys user" where user is the username. Followed by the command "as user". Having done this the user can locate the computers that are at disposal for him/her.

This is done with the command "browse". To get access to these machines the user has to enter the command "on browsegood", after which a program can be run. A program is then run with the command "run ex.repy" where ex.repy is the program to be run.

6) This command is used together with setting up a webserver. The command makes it possible for us to wait and listen for a connection on the chosen ip and port. When a connection has been found on the ip with the

port, it will call hello.