Preparation & Pre-assignment

TDA596 - Distributed Systems

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What is Seattle?

Seattle is a free and community-driven platform for networking and distributed systems. The global distribution of the Seattle network makes it ideal for applications such as: peer-to-peer networking and distributed systems. As a user on the Seattle network you can distribute your resources and programs on different machines spread all over the world.

What is a vessel in the Seattle framework?

A vessel is a resource that a user can acquire to execute a program on.

Which programming language is used to write programs to run on Seattle? How does it relate to Python? Explain brie y why it is used, instead of Python.

To write programs on Seattle repy is used, which is a restricted version of python. Many of the built-in function in python is not useable in repy in order to ensure cross platform compability and security for the end users.

Write the full command to run locally a program written in the language in the previous question?

python <path to repy.py> <path to restrictions file> <path to source file>

List all steps to run a program remotely in vessels.

1. python seash.py
2. loadkeys <username>
3. as <username>
4. browse
5. on browsegood
6. run <file.repy>

In the HelloWorld Example in the Repy tutorial (see https://seattle.poly.edu/wiki/RepyTutorial), what is this line "listencommhandle = waitforconn(ip,port,hello)" for?

It tries to establish a connection on localhost with port 12345 with a callback to the function hello which will be executed if the connection succeeded.