

Introduction:

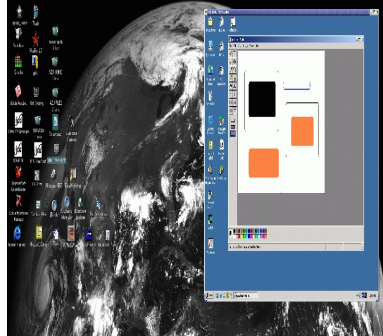
Many companies require testing for various project. This process can take up to many hours of manual labor. This project sets up a system in which one client system can test multiple applications on many server systems. In this project, three systems were used. The one client system implements various automation tools to accomplish the task. The practical use of this project is to reduce the time spent on testing. The project will show that the manual testing that originally takes hours to test on the two other systems can be reduced to just minutes using one system.

Background:

Companies have been trying to implement automated testing with their company for years. Many common problems that halt the continuation of this is a lack of knowledge in the area and the long time that it takes to set up automation. Years ago, automated testing was not practical for use. Currently, there are many tools for automation that makes automated system testing not only simple but extremely quicker to set up. The increased knowledge and simplicity of the automation process in key in automated system testing.

Automated System Testing Methods:

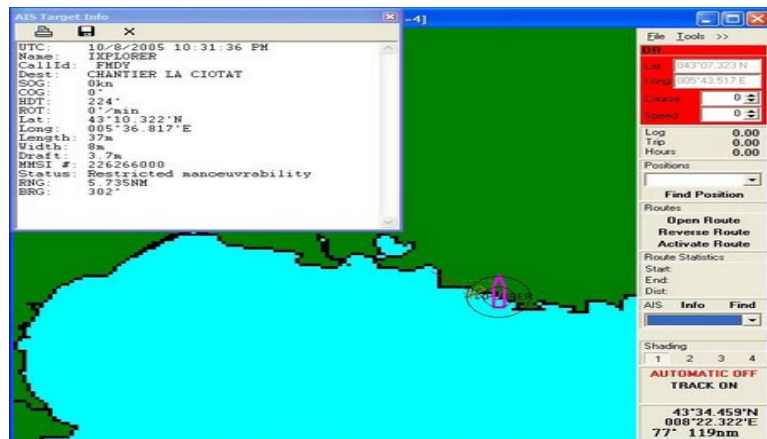
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The client system will use TightVNC to connect to the server systems. This will create a relationship between one client and one server. STAF/STAX will be used to connect the client to multiple servers and create the system. Later, VNCRobot will receive the orders from STAF/STAX and proceed with the testing. VNCRobot will automatically access TightVNC and the server systems. The SeaClear application will be tested and the results will be sent back to the client. The operator, will then be able to view the results within minutes of starting the testing.

Expected Results:

This project is expected to create a system in which applications on many servers can be tested through the use of one client. Although this can be done manually, the project is expected to reduce testing time from hours to minutes. In addition, the automation of the testing will not compromise the accuracy of the testing in any way.



Analysis:

The data collected was in the form of different tests. The main objective was first to have everything running properly. After setting up the environment that was needed to have everything working, I started to test different application before settling for the one that would mainly be used for the project. The application chosen for the official test was SeaClear. SeaClear was used because of its many variables that could be tested and automated.