# Search Change Tracking Tool

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## Introduction

The Search Change Tracking Tool is used as a workbench to run queries against hosts like Fusion, SOLR, and PCF. It will capture the top 12 results from each query to each host specified. The result are stored so they can be compared and analyzed. During the comparison of the results a record will be created that contains differences in result counts, query times, and result order.

To get started simply login.

## Login Screen

Each login provides a workbench that is specific to that user name. Use any value for user name that does contain spaces or special characters. Just characters and/or numbers.

\*use the value in user name as the password. They must match.

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## System Management

All scripts are defined as “assets” under the system tab. There are scripts to load queries, compare queries, summarization and exporting. The system “admin” can modify the assets. All users can view the assets.

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The assets are attached to a “test” and used based on the action for the test. A screenshot of a computer

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Each test has assets attached. Some of the assets can be invoked for a test by using the “Runner” tab. The Runner uses the “currently” selected test to provide a dynamic form for “invokable” assets. The form is based on the “command line” options that are given to the asset when it is ran. The command line is defined in the test for each asset. The assets may contain many “options” that are exposed in the command line when the test is setup.

Once the options are set, you can simply push the “Run” button which will start the execution of the script. You cannot cancel the script once it is running. The application also shows the output of any traces that generated by the asset that is running.

Some key notes are that the form is rebuild every time you change the “current” test or you change the “script” (asset) you want to run.

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## Running a Test

To run a test you need at least one query. The queries can be loaded directly into the test by selecting the “Build Sample” script on the “Runner Tab”. The Build Sample provides a “CVS Data” field that accepts lines of queries.

For example, take a column of queries from a queries report and paste into the “cvsData” field on the form and press “Run”. The queries will be loaded into the current test.

Once the script completes (you will see notification in the status box) select the “Extract Results” script option and press “Run”. The queries will be ran against both the hosts in the test extraction script. The results will be stored as associated records for each query.

After the script completes, select the “Summarize Results” script and press “Run”. The summarization script will process the results for each query in the test. The results from both hosts will be merged into a single summarization record. The summarization record will also include the “delta” (difference) between both query times and result counts.

Analyzer Results

Once all scripts have been run for a test, you can go to the “Test Results” tab to analyze the results. There are four tabs that will help you look at the results of the test.

The first tab, “Sample Queries” will display all the queries in the test. You can click the “Compare” option to review a side by side comparison of the results for a single query.

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The second tab, “Details”, will display the results of the details asset for the current test. The details asset will provide counts for total queries, total results, and min and max query times.

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The third tab, “Compare Results”, displays the “interpret” asset in the current page. It compares the results from the two different hosts in the test. It will change background color from green if it matches, yellow if it kind of matches, and red if it does not match at all. The red lines between the left and right side show matching products.

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The fourth tab, “Summarize Results”, displays the summary records for each of the queries. The “delta” is displayed for qtime and result counts. The “mscore” (matching score” is also displayed. When looking for big differences in results, sort by the mscore, or the deltas to locate the “big” differences sooner.

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Finally, you can write notes with each query that is stored in the feedback for each query.

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