LambdaUI

USER INTERFACE TO EXECUTE, MANAGE AND MONITOR JOBS ON CLOUDYCLUSTER
What is LambdaUI?

- “lambda” – Abstraction of functions
- Interface to the control terminal
- Abstraction of various functions & commands used to run/view jobs
- Automates script generation
- User need not know the commands/generation of scripts.
LambdaUI: Current Status

USER
- User sees the LambdaUI, gets to use different features.

WEB UI
- User-friendly WebUI. Provides options. Passes user parameters to Flask and obtains the result from Flask.

FLASK
- Takes data from the LambdaUI. Generates script file, calls necessary ccq commands and returns the result.

CCQ
- Receives commands from Flask and executes and returns the result.
CloudyCluster + LambdaUI

- Extending the CloudyCluster commands and function attributes to a UI.
- Covers more target users
- Time saving
- Moving from a terminal based application to a GUI world.
- Leave the generation of scripts to LambdaUI
Demo
Challenges

• Installing all required dependencies and making sure they work.
• Interfacing notebook widgets to CCQ client methods
• Conflict between AJAX and Flask
• Creating the bridge between back-end python code to the front-end Web interface.
Improvements

- Providing more job and execution information.
- Customizing features for job submissions.
- Providing a logout option.
- Providing visualizations for performance.
Developers

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