

MOC Simple GUI: GII

Abstract

The Massachusetts Open Cloud (MOC) needs a simple intuitive GUI for its public cloud marketplace. Our goal is to provide a tool to enhance the user experience by automating mundane but complicated steps to use cloud resources as well as presenting to our users all available cloud services including but not limited to network routing and ability to choose between virtual machine (OpenStack instances) and container technologies.

OpenStack Horizon is inadequate to serve naive users who lack basic cloud knowledge and to whom the cloud is simply a tool to get computing results for their scientific research for example. This MOC marketplace GUI serves to be a simpler tool streamlining the cloud experience. It can be used by itself or alongside Horizon. Developing a new GUI from scratch can be both time-consuming and challenging. A collaboration with the Cyverse's Atmosphere/Troposphere project has helped accelerate the development of the MOC GUI.

BIO

Lucas H. Xu graduated from Boston University in May 2016 with double majors in computer science and statistics. Currently, he works at Massachusetts Open Cloud as a software engineer, leading the GII (MOC Simple GUI) project.