A straightforward strategy to get your Shiny app online, securely and continuously updated.

Github, Docker-compose, EC2 version

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Introduction

This is the first in a series of posts offering suggested strategies for leveraging open source technologies to provide straightforward solutions to one of the central challenges in the practice of data science, i.e. how to effectively communicate analysis results to clients and collaborators. The list of open-source technologies (software stack) we suggest for employment is: linux, R, Shiny, Docker, Git, and Caddy. In this post we'll make use of two cloud services: Github and Amazon Web Service (AWS). Further posts will describe alternate constructions, e.g. using the low cost cloud service: Hetzner.

Also described in other posts are strategies that avoid Github and docker-compose. This approach provides a simpler initial construction, but a more labor intensive updating process.

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