CS-1660 Final project

Main Application:

1. Python based
2. Flask to serve the html template
3. Each text is a hyperlink to a specific service running on docker

Rstudio:

1. rocker/verse

<https://ropenscilabs.github.io/r-docker-tutorial/02-Launching-Docker.html>

<https://support.rstudio.com/hc/en-us/articles/360021594513-How-to-run-RStudio-professional-products-inside-Docker-containers>

<https://www.andrewheiss.com/blog/2017/04/27/super-basic-practical-guide-to-docker-and-rstudio/>

<https://www.andrewheiss.com/blog/2017/04/27/super-basic-practical-guide-to-docker-and-rstudio/>

Spyder:

1. official binder website

<https://hub.docker.com/r/compdatasci/spyder-desktop>

IBM SAS:

<https://www.pdesas.org/Profile/Account/Login>

<https://github.com/sassoftware/sas-container-recipes>

<https://documentation.sas.com/?docsetId=containers&docsetTarget=n08crk346hlahon17mj16pmdj8t5.htm&docsetVersion=9.4&locale=en>

<https://github.com/govcloud/docker-sas4c>

Orange:

<https://github.com/acopar/orange-docker>

<https://hub.docker.com/r/acopar/orange-docker>

Jupyter notebook:

1. jiz156/jupyter-no-token

<https://hub.docker.com/r/jupyter/datascience-notebook/ßß>

Tabluau:

<https://www.tableau.com/products/linux>

<https://sso.online.tableau.com/public/idp/SSO>

https://github.com/tableau/tableau-docker-samples

Apache spark:

<https://jupyter-docker-stacks.readthedocs.io/en/latest/using/specifics.html#apache-spark>

<https://hub.docker.com/r/spydernaz/apache-spark>

<https://github.com/big-data-europe/docker-spark>

<https://hub.docker.com/r/harisekhon/spark>

https://github.com/big-data-europe/docker-hadoop-spark-workbench

Apache Hadoop:

<https://snapcraft.io/install/novnc/debian>

<https://www.edureka.co/blog/install-hadoop-single-node-hadoop-cluster#:~:text=There%20are%20two%20ways%20to,NodeManager%20on%20a%20single%20machine.&text=The%20multi%20node%20cluster%20is,organizations%20for%20analyzing%20Big%20Data>.

<https://hub.docker.com/r/apache/hadoop/dockerfile>

<https://github.com/HariSekhon/Dockerfiles>

<https://github.com/zhanghengdashuaibi/k8simages/blob/master/hadoop/Dockerfile>

<https://github.com/big-data-europe/docker-hadoop>

<https://www.michael-noll.com/tutorials/running-hadoop-on-ubuntu-linux-single-node-cluster/>

<https://hadoop.apache.org/docs/current/hadoop-yarn/hadoop-yarn-site/DockerContainers.html>

<https://www.youtube.com/watch?v=dLTI2HN9Ejg>

<https://clubhouse.io/developer-how-to/how-to-set-up-a-hadoop-cluster-in-docker/>

Tensorflow:

Terminal

<https://github.com/tensorflow/tensorflow/tree/master/tensorflow/tools/dockerfiles>

Markdown:

<https://www.markdownguide.org/tools/codimd/>

<https://hackmd.io/s/codimd-docker-deployment>

<https://stackedit.io/app#>

<https://jbt.github.io/markdown-editor/>

<https://github.com/tinyclub/markdown-lab>

SonaruCube & SonarScanner:

Scanner image :sonarsource/sonar-scanner-cli

Install scanner for python only

Install both cube and scanner in one container

Congifure the scanner to point to the sonar cube

VScode:

<https://github.com/cdr/code-server>

<https://github.com/caesarnine/data-science-docker-vscode-template>

<https://binal.pub/2019/04/running-vscode-in-docker/>

Git:

helloword git:

<https://github.com/dbarnett/python-helloworld>

<https://github.com/tsl0922/ttyd/wiki/Example-Usage>

notepad++:

<https://notepad-plus-plus.org/downloads/v7.9.1/>

other links:

<https://stackoverflow.com/questions/59705817/why-group-name-docker-is-not-created-on-installation-of-docker-on-mac>

semi-easy way of getting graphical output from a Docker container without having to run an sshd daemon:

<https://stackoverflow.com/questions/25281992/alternatives-to-ssh-x11-forwarding-for-docker-containers>

<https://stackoverflow.com/questions/50326335/display-host-computer-with-tkinter-from-a-python-app-run-on-docker>

<http://www.mit.edu/~arosinol/2019/08/06/Docker_Display_GUI_with_X_server/>

how to open a url using python:

<https://stackoverflow.com/questions/4302027/how-to-open-a-url-in-python>

dockernize react application:

<https://mherman.org/blog/dockerizing-a-react-app/>

Install application in docker:

<https://www.2daygeek.com/install-run-applications-inside-docker-containers/>

<https://medium.com/@joaolggross/how-to-install-and-execute-jupyter-notebook-on-ubuntu-18-04-d5b37159bd8e>

xquartz docker:

<https://medium.com/@mreichelt/how-to-show-x11-windows-within-docker-on-mac-50759f4b65cb>

docker app:

<https://github.com/docker/app>

worth to look at

<https://blog.jessfraz.com/post/docker-containers-on-the-desktop/>

More Docker Doodlings – Accessing GUI Apps Via a Browser from a Container Using Guacamole:

<https://blog.ouseful.info/2016/05/04/more-docker-doodlings-accessing-gui-apps-via-a-browser-from-a-container-using-guacamole/>

Running GUI Applications inside Docker Containers:

<https://medium.com/@SaravSun/running-gui-applications-inside-docker-containers-83d65c0db110>

Running GUI Applications on Docker in Linux:

<https://www.geeksforgeeks.org/running-gui-applications-on-docker-in-linux/>

Docker compose tutorial:

<https://www.youtube.com/watch?v=fqMOX6JJhGo>

Disable jupyter notebook’s password and token:

<https://stackoverflow.com/questions/41159797/how-to-disable-password-request-for-a-jupyter-notebook-session>

tkinter hyperlink:

<https://stackoverflow.com/questions/23482748/how-to-create-a-hyperlink-with-a-label-in-tkinter>

multi-stage build:

<https://docs.docker.com/develop/develop-images/multistage-build/>

link two container:

<https://www.youtube.com/watch?v=DJLm5myZiLw>

web terminal:

<https://xtermjs.org/>

<https://github.com/xtermjs/xterm.js/>

<https://github.com/rabchev/web-terminal>

https://www.youtube.com/watch?v=g-h761c8JSY

<https://github.com/tsl0922/ttyd/wiki/Example-Usage>

novnc:

<https://github.com/theasp/docker-novnc>

<https://hub.docker.com/r/theasp/novnc>

cmd, entrypoint difference:

<https://phoenixnap.com/kb/docker-cmd-vs-entrypoint#:~:text=ENTRYPOINT%20is%20the%20other%20instruction,to%20the%20docker%20run%20command>.

Run multiple

https://www.virtualbox.org/wiki/Mac%20OS%20X%20build%20instructions

questions:

show the progress to get some feedback

how to run docker compose inside a docker compose

how to run two applications in one image

how to add functionalites to an existing image

share the same environment

form –0 level = 1

where to figure the system requirements or dependencies of the OS or application.

<https://docs.sonarqube.org/latest/analysis/scan/sonarscanner/>