313-Recitation 2: Docker and Compose

Goal: During this recitation, we will make sure everyone is comfortable with using Docker and show an alternative method for running Docker containers, using Docker Compose.

Activity 1: Make sure you can run Mayan EDMS
Ensure that you can run the Mayan EDMS using the Docker examples provided at this URL:
https://docs.mayan-edms.com/topics/docker.html#docker-image

Activity 2: Create a Docker Compose configuration for running Mayan EDMS

1. Create a service compose file that will run the required services (mayan-edms and mayan-edms-postgres)
https://docs.docker.com/compose/gettingstarted/#step-3-define-services-in-a-compose-file
2. Your compose file must have a section in each service for the different parameters used to start the containers, as specified in the Mayan EDMS documentation
https://docs.mayan-edms.com/topics/docker.html#docker-image
   a. -e is for environment variables, one required for each -e
   b. -v is for mounted volumes, one required for each -v
   c. -p is for port forwarding
   d. a section is required for the restart strategy
   e. a name must be specified
   f. an image must be specified
   g. Hint: the MAYAN_DATABASE_HOST value will have to be changed
   h. Bonus: one container (service) may have to be started before the other to prevent a race condition, which? Can you make the configuration ensure that happens?
3. To get credit, submit your docker-compose.yaml in GitHub Classroom.
https://classroom.github.com/a/YDP-HPpu

Template to get you started:
https://gist.github.com/cmeiklejohn/fa47fd1bc1da638bc49f3e1d342b8d09