Devops Project Instructions

Step 1:

- mkdir home/<username>/jenkins

Step 2:

- mkdir home/<username>/Desktop/DockerComposeFile
- Transfer docker-compose.yml to DockerComposeFile folder
- Open the terminal on DockerComposeFile and enter: sudo docker-compose config
- The terminal should print the content of docker-compose.yml

- In order to activate the docker-compose file we need to enter the command: sudo docker-compose up -d
- Enter the command sudo docker ps to make sure the containers are up.

Step 3:

- Enter the command: sudo docker container exec <container_id> sh -c "cat /var/jenkins_home/secrets/initialAdminPassword"
- Copy the initial password and open your browser on: localhost:8080
- Paste the initial password, install recommended plugins and go through the registration process.

Step 4:

- Create a new job.
- Choose git under Source Code Management and paste tindog repository url under the url section.
- Under Build Triggers choose Poll SCM and write: * * * * *
- Choose execute shell under Build and write the command: cp -r css images index.jsp ~
- Save the job (No need to build it yet).

Step 5:

- Install SiteMonitor plugin and create a new job under the name "monitor" (not mandatory but it's a suitable name).
- Go to Post-build Actions and choose Monitor Site.
- In the URL section, write: localhost:8888/status/ and save the job (No need to build it yet).

Step 6:

- Go back to the first job and add the post-build action: Build other projects.
- Write the name of the second job we created, monitor, in the Projects to build section.
- Choose "Trigger only if build is stable" and save the job.

Step 7:

- Build the job and make sure everything is fine, you can go to the monitor job and check if our webapp is up.
- Go to localhost:8888/status to see the webapp for yourself...

Step 8:

- Go to your tindog folder. (Important! the original folder. the one you uploaded to git)
- Go to images and replace the "iphone6.png" image with the one attached to the mail.
- open the terminal in tindog folder and enter the command "git status" to see the changes.
- Enter the following commands one after the other:
    - git add .
    - git status
    - git commit -m "change image"
    - git push -u origin master
- Enter your GitHub account details to complete the process.

Step 9:

- Go back to our first Jenkins job and check if it responded to the change.
- If we see that a new build has started and completed successfully we should be able to see the change in our webapp.
- Go to localhost:8888/status (or refresh the page if it open...) to see it yourself