**FULLSTACK ACADEMY AWS DEVELOPER CAPSTONE**

**Project Workflow:**

* I created a repository on GitHub at the following URL: <https://github.com/kendrick8596/developer-capstone.git>
* Imported the code from the provided repository into my repository
* created a dev-sandbox branch from the main branch
* I constructed a CloudFormation template in YAML
  + I added the following resources
    - EC2 instance
    - EBS volume
    - Security group with ports 80, 443, and 22 open
    - Imported a security key
  + The created stack deployed the resources successfully

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* Verification of the resources:

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Description automatically generated***Deployed EC2 Instance: WebApp***

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***Deployed Security Group: capstone-sg***

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***Imported Key Pair: capstone-project-dev***

* Once the EC2 instance was deployed, I used ssh to get into the instance and performed the following
  + ssh -i capstone-dev.pem ec2-user@<instance public IP>
  + updated the instance: sudo yum update -y
  + installed docker and git: sudo yum install -y docker git
  + started docker service: sudo service docker start
  + added ec2 user permissions: usermod -a -G docker ec2-user
* Cloned the remote repository with the following commands:
  + sudo git remote add origin <https://github.com/kendrick8596/developer-capstone.git>
  + verified the remote origin was set with: sudo git remote -v

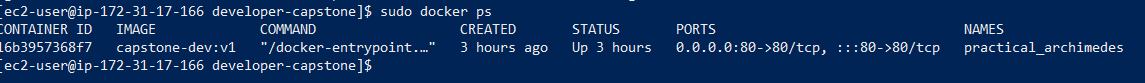
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* Made and pushed the following changes to the dev-sandbox branch
  + made updates to faq.html
  + made update to the index.html
  + changes were pushed to github with the following commands:
    - git status > see modified files
    - git add > stages the files to commit
    - git commit -m <comment to show changes>
    - git push origin <branch>
* Created the DockerFile using NGINX
* Created the image and container

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* I tested the application using the curl command: curl <public IP>:80
* Tested in the browser and viewed successful changes to the .html files
* I then pushed the DockerFile and the README.md file to the repository
* I was then able to push the docker image to docker hub using the following commands:
  + sudo docker tag <container id> docker\_hub\_username/docker\_repository:<tag>
  + sudo docker push docker\_hub\_username/docker\_repository:<tag>

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* Verified image in docker hub and link to repository
  + https://hub.docker.com/repository/docker/konkurus/fullstack-capstone-developer/general

A screenshot of a web browser

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