



CS 470 Module Two Assignment Two Guidelines and Rubric

Overview

This lesson will complete your work with containers by introducing Docker Compose to allow orchestrating multiple containers as a logical unit. You will bring up the entire stack in three containers working together to serve a full stack application.

Prompt

Compose multiple containers working together (front and back) and orchestrate their functions. You will follow the [CS 470 Module Two Assignment Two Guide](#) to complete these tasks. Specifically, you must address the following rubric criteria:

- Using docker-compose, create 1) a shared network, 2) a backend script for containers, and 3) a frontend script for containers.
- Run the container orchestration.

What to Submit

- Submit the Docker-compose YAML file to Brightspace.
- Submit the following screenshots to Brightspace:
 - docker-compose images command output
 - LoopBack explorer frontend running in the container, adding a new question
 - Angular frontend running in the container, showing the previously entered question
 - MongoDB showing question collection
 - Docker ps -a (output)

Module Two Assignment Two Rubric

Criteria	Proficient (100%)	Needs Improvement (75%)	Not Evident (0%)	Value
Network	Correctly creates a docker virtual network	N/A	Does not attempt criterion	20
Backend Scripts	Correctly authors docker-compose YAML script with no syntax errors	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include syntax errors.	Does not attempt criterion	30
Frontend Scripts	Correctly authors docker-compose YAML script with no syntax errors	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include syntax errors	Does not attempt criterion	30
Run Orchestrated Containers	Creates and runs orchestrated containers using the authored Dockerfiles	Shows progress toward proficiency, but with errors or omissions; areas for improvement may include improving orchestration.	Does not attempt criterion	20
Total:				100%