

## Objective

Create a containerized app that returns the average close of a stock ticker for the last 5 trading days. Utilize the free Alpha Vantage API and return the average close of Stock Ticker GOOG for the last 5 trading days as a simple text result.

API Documentation: <https://www.alphavantage.co/documentation/>

Get API Key: <https://www.alphavantage.co/support/#api-key>

## Requirements

1. The container should be based on a Linux distribution of your choice.
2. The container should include all the necessary dependencies and libraries to run the script.
3. The app should make an API call to the Alpha Vantage API to retrieve stock data for GOOG.
4. The app should calculate the average close for the last 5 trading days.
5. The app should return the average close as output in a simple text format.
6. The app can be written in the language of your choice.
7. The container should include a README file that describes how to build and run the container, as well as any other necessary information.

## Evaluation Criteria

Your submission will be evaluated based on the following criteria:

1. **Functionality** - Does your script make an API call to Alpha Vantage and return the average close of Stock Ticker GOOG for the last 5 trading days as a simple text result?
2. **Code quality** - Is your code well-organized, readable, and maintainable? Are you using appropriate libraries and modules?
3. **Exception Handling** - Is your code resilient, how does it handle errors?
4. **Containerization** - Is your container well-organized and efficient? Are you using best practices for creating container images?
5. **Documentation** - Is your README file clear and concise? Does it include all the necessary information for building and running the container?

## Submission

1. Create a new Git repository to hold your container and script.
2. Create a README file that describes how to build and run the container.
3. Include any necessary dependencies, libraries, or configuration files in the repository.
4. Test your container and script to ensure they are functioning as expected.
5. Share the link to your Git repository with your recruiter.