

Home Exercise

This exercise requires the use of Docker, Mongo, RabbitMQ, C# and .net Core on Linux.

Find 5 publicly available rest api services.

Mission:

Build a Micro Services architecture to get data from the above api URL's by priority and store the replies in Mongo.

Each request object will have a url and priority (1 to 5, 5 is lower)

The solution should consist of 3 Micro Services:

- a) A service request generator of the api services and random priority.
- b) A service which performs the request by priority and saves the response to a queue.
- c) A service which listens for api response results and stores the response to Mongo.
This should include id, url, priority, timestamp, http error code and the response.

Build mechanism to fetch multiple request objects from the queue and execute each object in parallel (up to n configurable tasks in parallel).

There will probably be question and decisions you need to ask/make. In short, write them down and answer by yourself giving your thoughts and options.

Also, note the issues if any you encounter on the way. There may be technologies u are not familiar/experienced with and will need to learn, less u know too.

Please share a private git repository with the solution and any necessary documentation to run.