1. Consider we are designing a microservice oriented application, which will expose an API for third parties consume and also be able to integrate its microservices or external applications asynchronously.

Which are the components of this application

Choose the best option

* Domain or business logic
* Database access logic
* Application integration logic
* Presentation components
* **All of the mentioned**

1. Consider you are designing your product using microservices, as you want to be able to add any new feature by developing it quickly and also any feature can be discarded very easily if it is not needed.

Which feature or microservices does this representation?

Choose the best option

* Autonomy
* Agility
* Decoupling
* **All of the above**

1. You are developing a large system using microservice architecture. You know that your system will be sold in a few months to another company and such setting as the dataset credentials and network location will change. You need to prepare your system for it.

Which pattern can help you to do it?

Choose the best option

* **Externalized configuration**
* Server-side service discovery
* Client-side service discovery
* Self-registration

1. Consider we are using multiple docker compose files to handle several environments in our microservice application. If we are using Visual Studio with docker support, by default the Compose will read which file?

Choose the best option

* Docker-compose.yml
* Docker-compose.override.yml
* Docker-compose.vs.debug.g.yml
* **Option 1 & 2**
* Option 1 & 3

1. You are designing the microservices communication in your system. You would like to use asynchronous messaging to communicate between services when you need to make some collaborative tasks.

Which of the following technologies represents a way to organize an Asynchronous Messaging pattern in your system?

Choose the best option

* RabbitMQ
* Spring Gateway
* JDBC (por confirmar)
* Apache Kafka
* More than one example above provides this feature

1. Consider we are using versioning to enable a Web API to indicate the features and resources that it exposes. A client application can then submit requests to a specific version of a feature or resource.

What are the different approach to implement versioning?

Choose the best option (Cual es major, eso no se aun)

* URI versioning
* Query string versioning
* Header versioning
* Media type versioning
* **All of the mentioned**

1. Assume you are storing data in the containers using docker files.

Which of the docker volumes from docker host behaves like virtual folders that only exist in the host memory and are never written to the filesystem?

Choose the best option

* **Tmpfs mounts**
* Azure storage
* volumes
* bind mounts

1. Consider a situation where you can mix and match languages and technologies to the needs of each microservice and still have them talking to each other. Each might have a different architecture pattern as each subsystem is context boundary and requirements are usually different.

What is this type of system called?

Choose the best option

* **Multi-architectural pattern**
* **Polyglot microservices**
* Bounded Contexts
* **Option 1 & 2**
* Option 1 & 3

1. You develop a microservice architecture for your system. One of the microservices is supposed to receive information from another microservice by execution of GET request.

Regarding microservice patterns, what type of communication is this?

Choose the best option

* Applicant event
* Messaging
* Domain-specific protocol
* **Synchronous call**