Managing Complex Cloud Operations in a Distributed Software Environment

In a land of microservices and multi-tenant applications developers move more of day-to-day operations into the cloud to take advantage of scalability, on demand cloud operations, and security to mention a few. This brings some flexibility when it comes to selecting the resources to hand out jobs, since different customers and processes have different needs, some may have on premise hardware to respect internal security concerns, others may hire on-demand cloud resources to scale with workload. Either way, to comply with customer demands and needs we must be able to secure the data foundation for services we provide for the customer.

Create a fullstack web application for creating, maintaining, and validating the configuration used in our distributed data pipelines. The application should provide a user-friendly interface to minimize potential misconfiguration and human errors.
The students will get a first person view of how the Aqua Culture industry innovates with digital tools.

The solution should be built as a containerized application that can be deployed to our existing architecture in Kubernetes. The students can decide how to design the application architecture as long as the technology is compliant with containerized hosting. We can provide the best guidance if the students align with our technology that are .NET 6, Angular, MSSQL, Docker, and Kubernetes, but no prior knowledge of the technologies is required.

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