# Module 6 Topic 3

# Worksheet

**Apply Task:**

**Analysing Monolithic vs. Microservices Architectures**

## MINI PRESENTATION

The mini presentation will be your next submission after the mini project, but you are already advised to start thinking about presenting. Here you will need to prepare only a maximum of **4 slides** with no speaker notes required.

Prepare a short presentation to explain your findings and recommendations to relevant stakeholders, emphasising how the microservices architecture style enables better adaptability to change and supports business objectives
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- **Step 1:** Select a **monolithic** application architecture from your organisation or a well-known case study. Analyse the limitations and challenges of this monolithic architecture in terms of flexibility, scalability, and resilience. Consider factors such as code complexity, deployment processes, and the impact of changes on the entire system.

- **Step 2:** Research the key characteristics and benefits of **microservices** architectures, such as loose coupling, independent deployability, and technology diversity.

- **Step 3:** Based on your analysis, propose a microservices-based architecture that addresses the limitations of the monolithic approach. Identify the main services, their responsibilities, and the communication patterns between them.

- **Step 4:** Create a comparison slide that highlights the benefits of the proposed microservices architecture over the monolithic approach. Consider aspects like development agility, scalability, fault isolation, and alignment with business goals.