**📌 Workshop Topic: "Advanced Event-Driven Architecture: CQRS & Saga Patterns in Azure"**

This builds on your first workshop and focuses on **real-world distributed transactions** in microservices.

**📜 Workshop Agenda**

**🔹 Session 1: Understanding CQRS & Saga Pattern**

✅ **Why CQRS?**  
✅ **How Saga Ensures Consistency in Distributed Systems**  
✅ **Azure Components for CQRS & Saga:**

* Azure Service Bus (Command Processing)
* Azure Event Grid (Event Publishing)
* Azure Durable Functions (Compensating Transactions)

**🔹 Session 2: Live Demo – Implementing CQRS in Azure**

🔹 **Scenario:** "E-commerce Order Processing System"  
🔹 **Architecture Overview**  
🔹 **Hands-on: Implementing CQRS**

* **Command Service:** Handles CreateOrderCommand
* **Query Service:** Reads data via OrderReadModel
* **Azure Functions & Cosmos DB for CQRS**

**🔹 Session 3: Implementing Saga Pattern for Order Processing**

✅ **Why Saga Instead of Two-Phase Commit?**  
✅ **Choreography vs. Orchestration Saga**  
✅ **Implementing Order-Payment-Inventory Workflow**

* **Step 1:** Order Service emits OrderCreatedEvent
* **Step 2:** Payment Service listens & processes payment
* **Step 3:** Inventory updates stock
* **Step 4:** If payment fails, Saga rolls back order

🔹 **Hands-on:** Build **Saga Orchestration** using **Durable Functions**

**📌 Expected Outcomes**

🚀 **Understanding of CQRS & Saga**  
🚀 **Hands-on Experience with Azure Durable Functions**  
🚀 **Real-world event-driven implementation**

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A diagram of a product

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Diagram of a process

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