KOENIG step forward

Microsoft Solutions Partner
Microsoft Cloud Training Services

KOENIG SOLUTIONS · COURSE OUTLINE

# 40529: Microsoft Cloud Workshop: High Performance Computing

Learn to design and build a high-performance, real-time data solution using Azure Database for PostgreSQL Hyperscale, Databricks and Kafka.

**2** MODULES

**8** TOPICS

## COURSE OVERVIEW

This workshop centres on a customer case study involving real-time data processing with Azure Database for PostgreSQL Hyperscale. It begins with a whiteboard design session in which a proof of concept solution is designed and presented. A hands-on lab then covers connecting to and setting up the database, adding secrets to Key Vault and configuring Azure Databricks, sending clickstream data to Kafka for real-time processing, rolling up real-time data in PostgreSQL, and creating advanced visualizations in Power BI.

## WHO THIS COURSE IS FOR

**Data Engineers** | **Solution Architects** | **Database Administrators** | **BI Developers** | **Cloud Engineers**

## LEARNING OBJECTIVES

- Analyse a customer case study to identify solution requirements
- Design a proof of concept for real-time data processing
- Present a proposed solution to stakeholders
- Configure Azure Database for PostgreSQL Hyperscale connections
- Configure Azure Key Vault secrets and Azure Databricks
- Implement real-time clickstream data processing with Kafka
- Apply rollup logic to real-time data in PostgreSQL
- Build advanced visualizations in Power BI

COURSE SYLLABUS

# 2 Modules, 8 Topics

01

## Whiteboard Design Session - Real-time Data with Azure Database for PostgreSQL Hyperscale

**LESSONS**

Review the customer case study · Design a proof of concept solution · Present the solution

02

## Hands-on Lab - Real-time Data with Azure Database for PostgreSQL Hyperscale

**LESSONS**

- Connect to and set up your database
- Add secrets to Key Vault and configure Azure Databricks
- Send clickstream data to Kafka and process it in real time
- Rollup real-time data in PostgreSQL
- Create advanced visualizations in Power BI

WHAT IS INCLUDED

## Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

## Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

## Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

### Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

Visit koenig-solutions.com | info@koenig-solutions.com