Design and Develop

a Serverless Event-Driven Microservice-Based Solution

Workshop Introduction

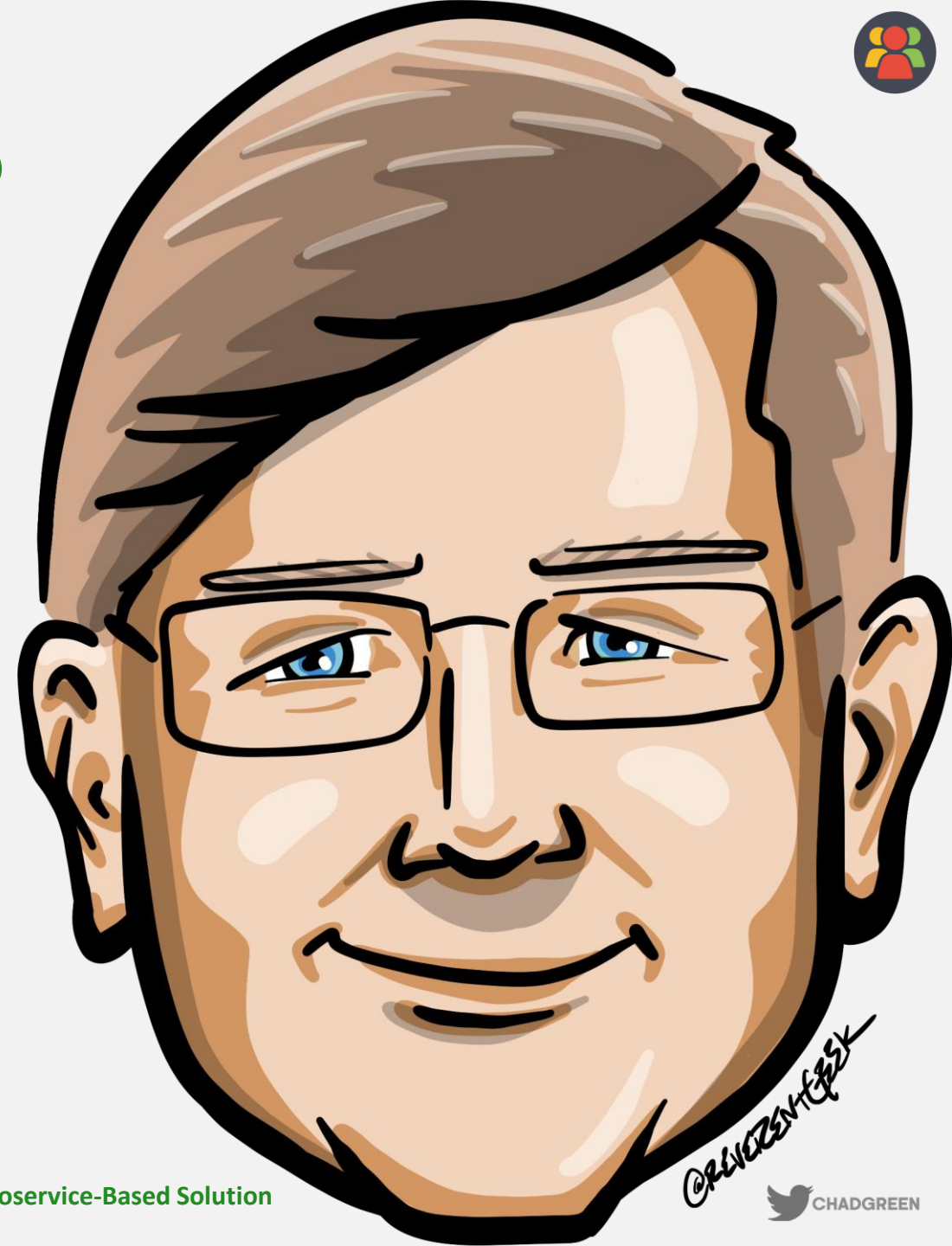Design and Develop a Serverless Event-Driven Microservice-Based Solution

Who is Chad Green?

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in ChadwickEGreen

Design and Develop a Serverless Event-Driven Microservice-Based Solution

Attendee Introductions

Design and Develop a Serverless Event-Driven Microservice-Based Solution

Workshop Overview

Design and Develop a Serverless Event-Driven Microservice-Based Solution

Agenda

- Introduction (5 minutes)
  - Welcome and Overview

Agenda

- Introduction (5 minutes)

- Prologue (1 hour)
  - Introduction to Microservices
  - Introduction to Event-Driven Architecture
  - Introduction to Serverless
  - Overview of Azure Serverless
  - Introduction to Infrastructure as Code and Terraform

Agenda

- Introduction (5 minutes)

- Prologue (1 hour)

- Serverless Design Patterns (30 minutes)
  - Overview of common serverless design patterns
  - How to apply these patterns in real-world scenarios

Agenda

- Introduction (5 minutes)

- Prologue (1 hour)

- Serverless Design Patterns (30 minutes)

- Business Scenario (45 minutes)
    - Cool Revive Technologies and the business scenario
    - Discussion on how to architect a solution for the business scenario

Agenda

- Introduction (5 minutes)
- Prologue (1 ...
- Serverless D...
- Business Sce...
- Hands-On La...

Hands-On Labs
- Predictive Ingredient Replacement System
- Real-Time Inventory Management System
- Data Analytics Pipeline
- Maintenance Alert System
- Contactless Pouring and Customization System
- Cost Optimization System
- User Interface System

Agenda

- Introduction (5 minutes)

- Prologue (1 hour)

- Serverless Design Patterns (30 minutes)

- Business Scenario (45 minutes)

- Hands-On Labs (3 hours)

- Additional Topics (45 minutes)
  - Serverless Security Best Practices
  - Monitoring and Troubleshoot Serverless Applications
  - Scaling and Performance Optimization

Agenda

- Introduction (5 minutes)

- Prologue (1 hour)

- Serverless Design Patterns (30 minutes)

- Business Scenario (45 minutes)

- Hands-On Labs (3 hours)

- Additional Topics (45 minutes)

- Wrap-Up and Q&A (15 minutes)
  - Recap of the day
  - Open discussion and Q&A

Schedule

Segment	Duration	Start Time	End Time
Introduction	5 minutes	8:45	8:50
Prologue	55 minutes	8:45	9:45
Serverless Design Patterns	30 minutes	9:45	10:15
Morning Break	30 minutes	10:15	10:45
Business Scenario	45 minutes	10:45	11:30
Hands-On Labs (Part 1)	45 minutes	11:30	12:15
Lunch	1 hour	12:15	13:15
Hands-On Lab (Part 2)	1.5 hours	13:15	14:45
Afternoon Break	30 minutes	14:45	15:15
Hands-On Lab (Part 3)	30 minutes	15:15	15:45
Additional Topics	30 minutes	15:45	16:30
Wrap-Up and Q&A	15 minutes	16:30	16:45

Code of Conduct

- Respect and Inclusion

- Professional Behavior

- Confidentiality

- Collaborating and Listening

- Conflict Resolution

- Compliance with Laws and Policies

- Safety and Well-Being

- Feedback and Improvement

PROLOGUE

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