DP-203: Data Engineering in Microsoft Azure, Part 1 of 7: Azure Cloud and Data Engineer

page 1

Meet the expert: Eshant Garg has 16 years of extensive professional experience with expertise in Database and Business Intelligence Solutions, Advanced Analytics, Design and Solution Architect, Reporting, and Cloud Computing Technologies (Azure & Database and Business Intelligence Solutions, Advanced Analytics, Design and Solution Architect, Reporting, and Cloud Computing Technologies (Azure & Database and Business Intelligence Solutions, Advanced Analytics, Design and Solution Architect, Reporting, and Cloud Computing Technologies (Azure & Database and Business Intelligence Solutions, Advanced Analytics, Design and Solution Architect, Reporting, and Cloud Computing Technologies (Azure & Database and Business Intelligence Solutions, Advanced Analytics, Design and Solution Architect, Reporting, and Cloud Computing Technologies (Azure & Database and Business Intelligence Solutions).

As a developer and architect, he has worked closely with customers, users, and colleagues to support business solutions across a variety of industries including healthcare, insurance, finance, and government ranging from small companies to fortune 500 companies.

Prerequisites: AZ-900 Azure Fundamentals is very helpful but not required. A Candidate for the exam must have strong knowledge of data processing languages such as SQL, Python, or Scala, and they need to understand parallel processing and data architecture patterns.

Runtime: 06:07:25

Course description: The DP-203 Exam is measured in Four domains: Design and implement data storage (40-45%), Design and develop data processing (25-30%), Design and implement data security (10-15%), and Monitor and optimize data storage and data processing (10-15%).

This course covers an introduction to Data Engineering, as well as Data Storage with Non-Relational Data Stores.

Course outline:

Course Overview

- Introduction
- Course Introduction
- DP-203 Exam Info
- How to use Azure Portal for Free
- Summary

Create Azure Free Subscription

- Introduction
- Create Azure Free Subscription
- Azure Portal Overview
- Delete Resources And Set Budget
- Summary

What is a Data Engineer?

- Introduction
- How Did Data Engineer Profile Evolve
- Data Engineer Role And Responsibility
- · Data Engineer Technologies
- Summary

Azure Storage Services Overview

- Introduction
- Learning Objectives
- Azure Storage Services
 Overview
- Demo: Provision Azure Storage Account
- Summary

Data Redundancy Options

- Introduction
- Data Redundancy Options
- · Blob Storage

- Access Tiers
- Summary

Table Storage

- Introduction
- Table Storage
- Queue Storage
- File Share Storage
- Demo: File Share Storage
- Disk Storage And Demo
- Summary

Cosmos DB

- Introduction
- How Cosmos Db Evolved
- · Cosmos Db Features
- Cosmos Db Multi-Model APIs
- Summary

Provision Cosmos DB Account

- Introduction
- Provision Cosmosdb Account
- Database Containers And Items
- Throughput And Request Units
- Summary

Horizontal Scalability

- Introduction
- Horizontally Scalable
- What Is Partitioning And Partition Key
- Dedicated Vs Shared Throughput
- Dedicated vs. Shared Throughput

Summary

- PartitioningIntroduction
- Avoiding Hot Partition
- Single Partition Vs Cross
- Partition
- Composite Key
- Partition Key Best Practice
- Demo: Insert And Query Data In Your Cosmos Db
- Summary

Time to Live

- Introduction
- Time To Live
- Globally Distribution
- Multi-Master
- · Manual vs. Automatics Failover
- · Manual Vs Automatics Failover
- Summary

Manual vs. Automatic Failover

- Introduction
- Manual Vs Automatics Failover
- Manual vs. Automatics Failover
- 5 Consistent Level
- Azure Cli
- Pricing
- Summary

Cosmos DB Security

- Introduction
- Cosmos Db Security

- What Is Data Lake
- · How Data Lake Gen 2 Evolved
- Blob Vs Lake
- Data Lake Security
- Summary

High Availability and Disaster Recovery

- Introduction
- HA and DR
- Azure Storage HA and DA Options
- Cosmos Db HA and DA Options
- Summary

