Implementing Azure Storage Tables and Queues
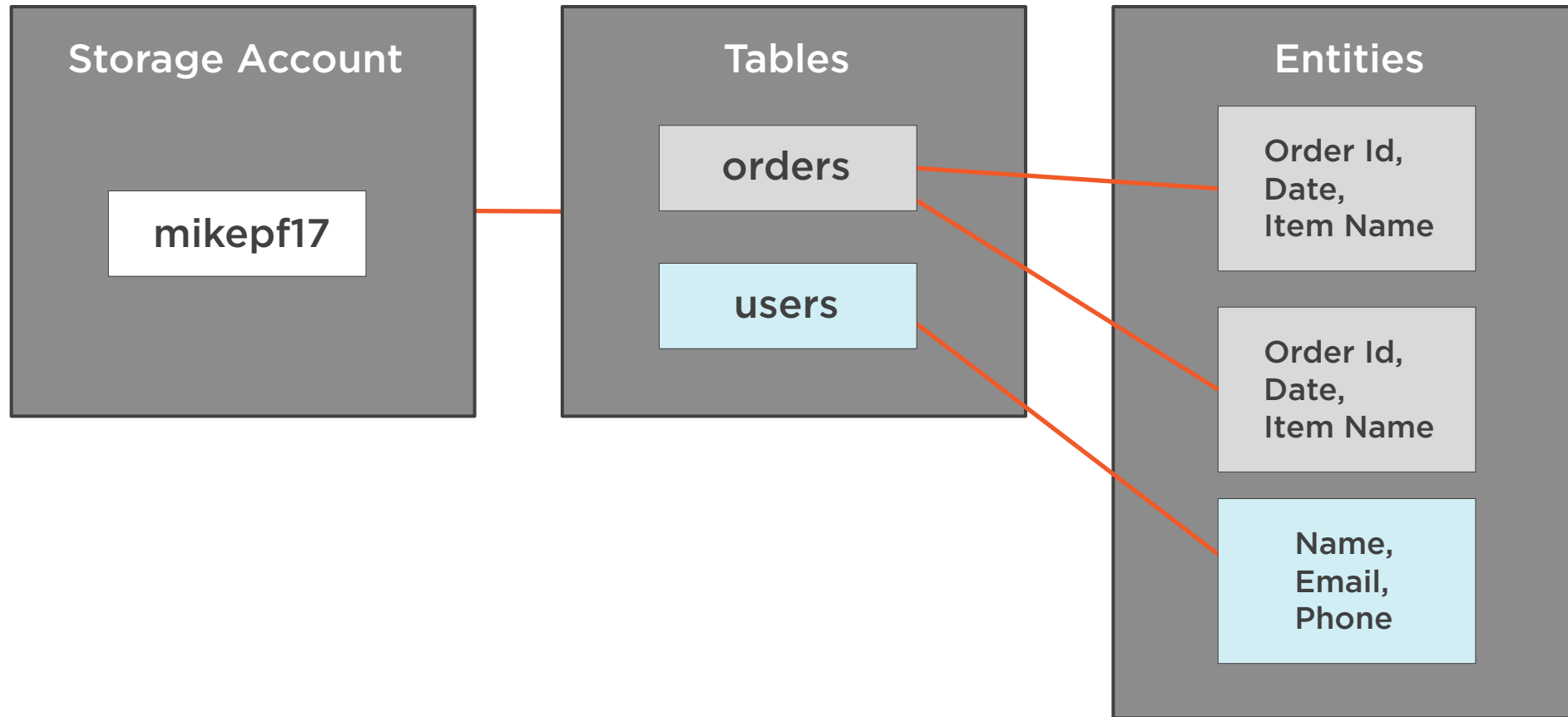
Mike Pfeiffer
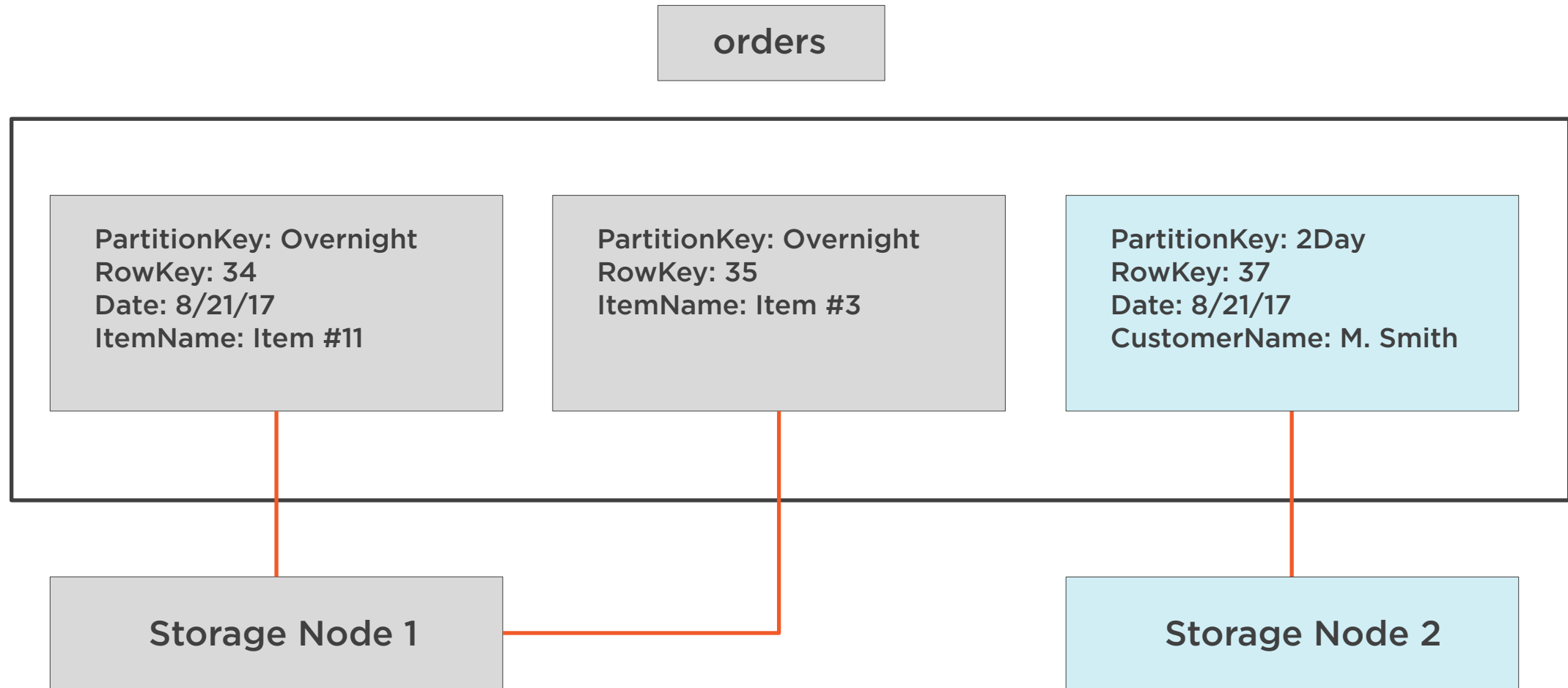
@mike_pfeiffer   linkedin.com/in/mpfeiffer

Understanding Azure Table Storage

Storage Account

mikepf17

Tables

orders

users

Entities

Order Id,
Date,
Item Name

Order Id,
Date,
Item Name

Name,
Email,
Phone

Understanding Azure Table Storage

orders

PartitionKey: Overnight	PartitionKey: Overnight	PartitionKey: 2Day
RowKey: 34	RowKey: 35	RowKey: 37
Date: 8/21/17	ItemName: Item #3	Date: 8/21/17
ItemName: Item #11		CustomerName: M. Smith

Storage Node 1

Storage Node 2

Understanding Azure Queue Storage

Web Server   **Database Server**

User   Virtual machine   Virtual machine   SQL database
                                                           (generic)
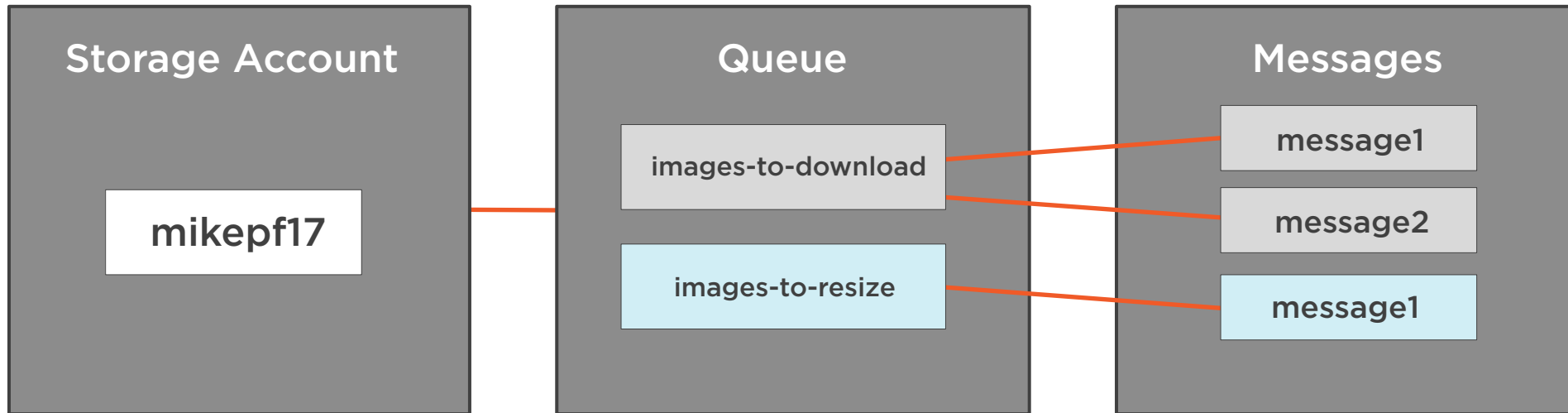
Frontend service   Backend service

Tightly coupled architecture

Understanding Azure Queue Storage

User

Web Server

Virtual machine

Frontend service

Storage queue

Task queue

Database Server

Virtual machine

SQL database (generic)

Queue Listener

Backend service

Loosely coupled architecture

Understanding Azure Queue Storage

Web Server

Frontend service

User

Storage queue

Task Queue

Database Server

Virtual machine

SQL database
(generic)

Queue Listener
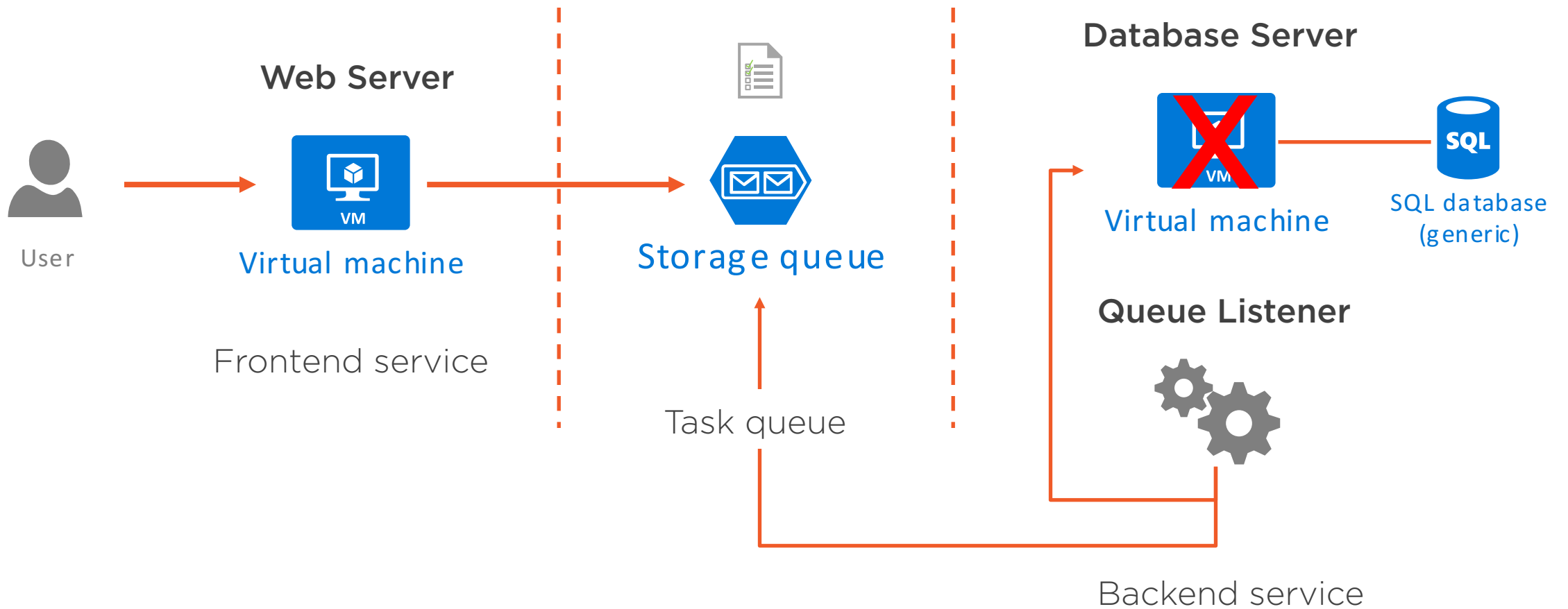
Backend Service
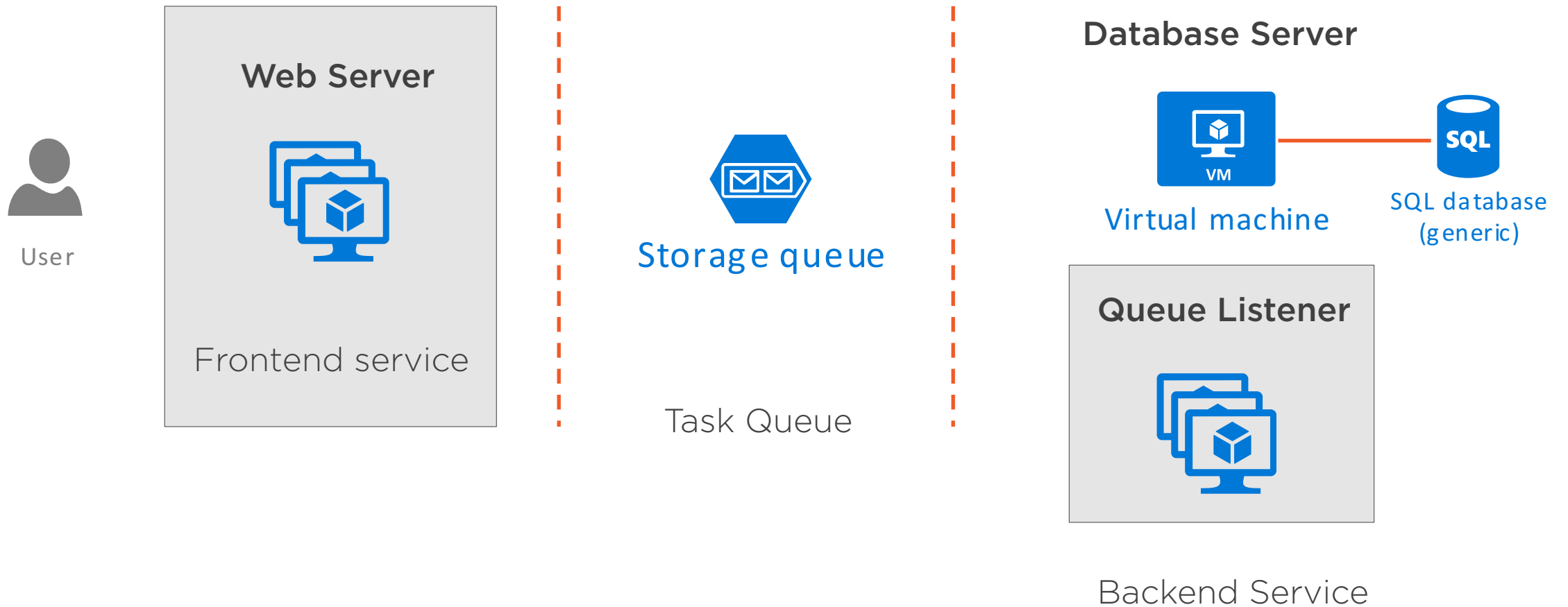
Independent scaling

Inserting Messages into the Queue

Web Server

Queue Listeners

Virtual machine

Storage queue

Frontend service

Task queue

Backend service
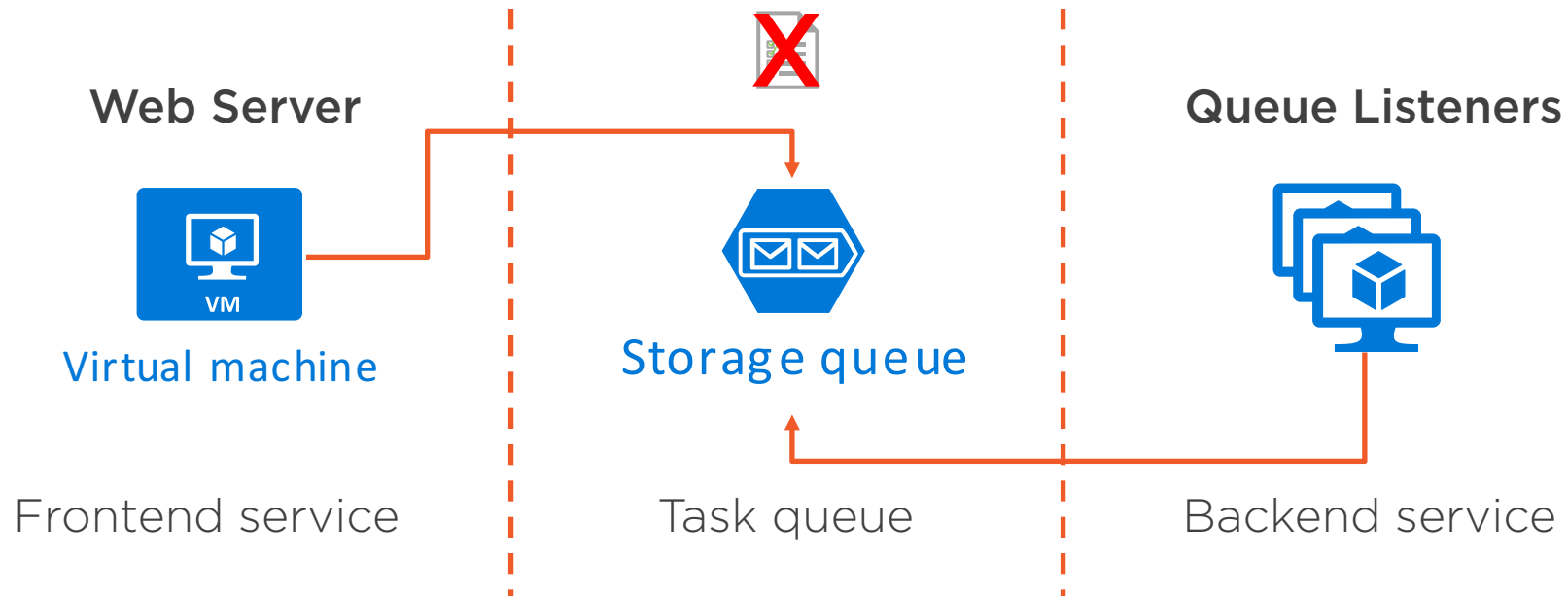
Summary

Table Storage PartitionKey and RowKey

Create, Read, Update, Delete Entities in Table Storage

Azure Storage Queue Insert and Retrieval

Scaling Tables and Queues