

# Serverless Orchestration

A Serverless Hackathon focusing on LogicApps, FunctionApps, Cognitive Services, Queues and Storage

Milliman TechForum 2021

MARCH 22, 2021 VERSION 1.0

# Your Microsoft Team for Milliman



"KJ" Jones  
Account Executive



Srikanth Matcha  
Azure Infra Specialist



Patrick Link  
Data/AI Specialist



Dan Davis  
Partner Manager



Daniel Gres  
Account Technology  
Strategist



Mike Lee  
Cloud Architect  
Apps & Infra



Pushker Sahai  
Cloud Architect  
Data & AI



Megan Pietrzykowski  
Customer Success  
Acct Manager



# MICROSOFT TEAM FOR MILLIMAN

- + Kenneth (KJ) Jones [KJ.Jones@microsoft.com](mailto:KJ.Jones@microsoft.com), Account Executive (all Microsoft Products & Services)
- + Daniel Gres [danielgres@microsoft.com](mailto:danielgres@microsoft.com), Account Technology Strategist (Maximize your Microsoft investments and build your technology strategy)
- + Mike Lee [Lee.Mike@microsoft.com](mailto:Lee.Mike@microsoft.com), Azure Cloud Solution Architect (Azure Infra and Apps)
- + Shivashanker Bitla [shbitla@microsoft.com](mailto:shbitla@microsoft.com), Principal Data Architect (Data/Analytics, Databricks, SQL, CosmosDb)
- + Pushker Sahai [Pushker.Sahai@microsoft.com](mailto:Pushker.Sahai@microsoft.com), AI Architect (Cognitive Services, ML)
- + Srikanth Matcha [Srikanth.Matcha@microsoft.com](mailto:Srikanth.Matcha@microsoft.com), Azure Infra Specialist(Azure Infra, Windows Server, Sys Center)
- + Patrick Link [Patrick.Link@microsoft.com](mailto:Patrick.Link@microsoft.com), Data/AI Specialist (all things Data, on prem SQL)
- + Brian Keyes [bkeyes@microsoft.com](mailto:bkeyes@microsoft.com), DevOps Specialist(App Dev, GH, Containers)
- + Martha Diaz [Martha.Diaz@microsoft.com](mailto:Martha.Diaz@microsoft.com), Biz Apps Specialist (Dynamics, Power Plat)
- + Mike Eldridge [mikeld@microsoft.com](mailto:mikeld@microsoft.com), Modern Workplace Specialist (Desktop, M365, EMS)
- + Tonya Johnson [Tonya.Johnson@microsoft.com](mailto:Tonya.Johnson@microsoft.com) , Security Specialist (EMS, Azure Security, Compliance)
- + Support – open ticket through Azure portal first. Escalations to Megan Pietrzykowski [Megan.Pietrzykowski@microsoft.com](mailto:Megan.Pietrzykowski@microsoft.com), or Sanjeev Gogna [Sanjeev.Gogna@microsoft.com](mailto:Sanjeev.Gogna@microsoft.com)(LTS/MedInsight)

# Topics

Optional subtitle (delete this box if not using)

- LogicApps
- FunctionApps
- Cognitive Services (and other API calls)
- Queues
- Blob Storage

# Serverless Orchestration: High Level Flow

4 Challenges! (Don't need to finish all 4. Challenges can be performed in ANY ORDER, (EXCEPT Challenge 1 must be done first)...

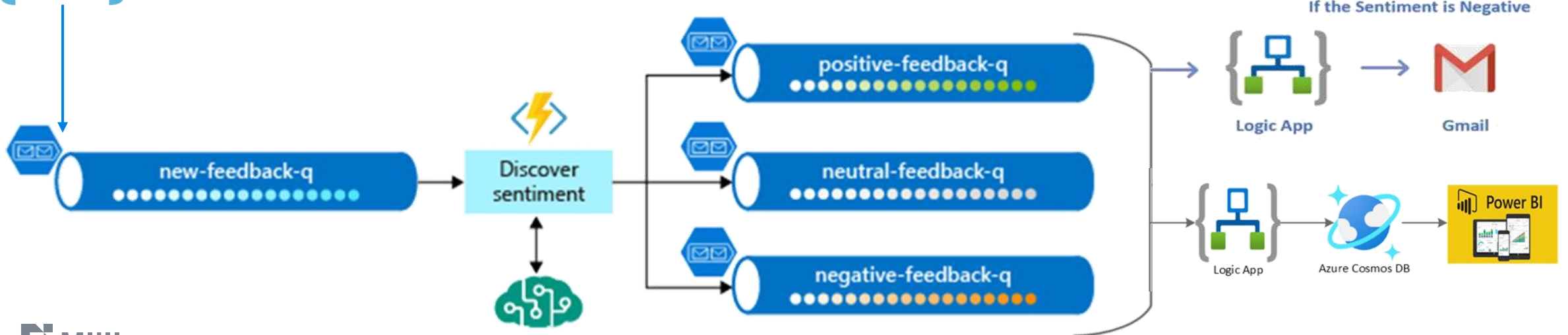
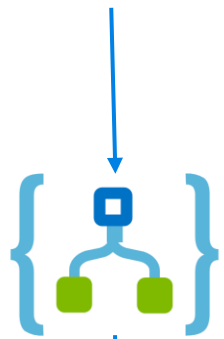


Challenge 1: Create a FunctionApp that takes incoming messages and tags them by sentiment

Challenge 2: Use a LogicApp to send all NEGATIVE messages to someone's inbox to deal with it...

Challenge 3: Use a LogicApp to Batch Process all incoming messages into an Input Queue

Challenge 4: Create a cool Dashboard showing you the sentiment overall

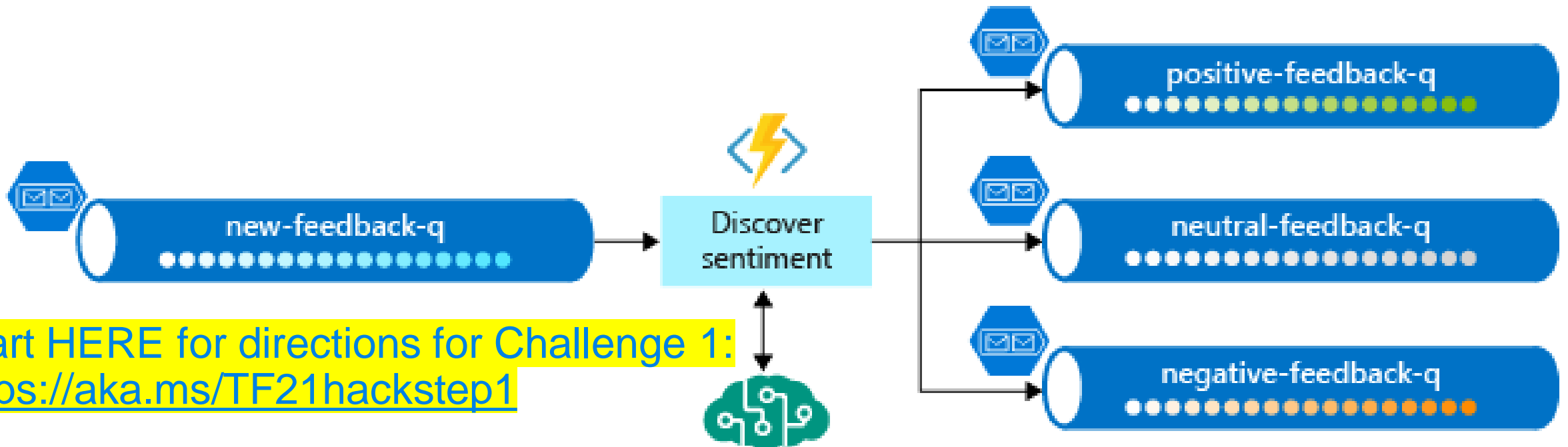


# CHALLENGE 1: FunctionApps & Queues

This challenge must be done first, but from there you can pick any of the other 3 challenges in any order

MAJOR GOALS FOR CHALLENGE 1:

- Creating a FunctionApp that pulls messages from a Queue
- calls a Cognitive Svcs API to do sentiment analysis to tag each message
- FunctionApp Sorts them into outbound queues (Positive, Neutral, or Negative) Sentiments



Start HERE for directions for Challenge 1:  
<https://aka.ms/TF21hackstep1>



# CHALLENGE 2: LogicApp to send Negative Feedback to Inbox


## MAJOR GOALS FOR CHALLENGE 2:

- Creating a LogicApp that takes each message in the Negative Queue
- Pulls out the relevant information
- Formats and puts it into an email for someone to respond to the Negative Message

Start HERE for directions for Challenge 2: <https://aka.ms/tf21serverlessCh2>




## Email Messages

 Compose


  


 Primary

 Social **26 new**

 Promotions **50 new**

 **Inbox** 540

 Starred

 Snoozed

☐  me

{"messageWithScore":{"originalMessage":"its bad","score":0.09089690446853638}}

☐  me

{"messageWithScore":{"originalMessage":"its bad","score":0.09089690446853638}}

# CHALLENGE 3: LogicApp to feed the new-feedback-q

MAJOR GOALS FOR CHALLENGE 3:

- Creating a LogicApp that feeds incoming messages one at a time
- Batch Feeds the relevant information to the “new-feedback-q”

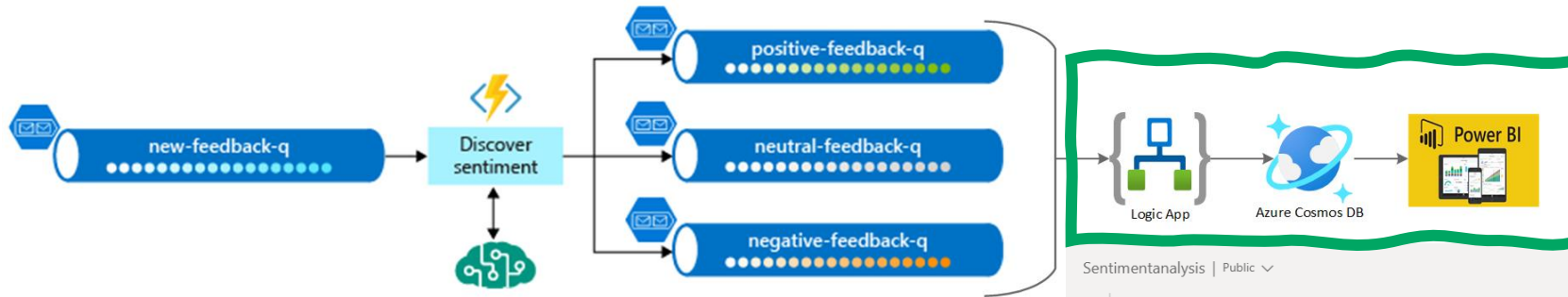
Start [HERE](#) for directions for Challenge 3: PRESENTED LIVE!



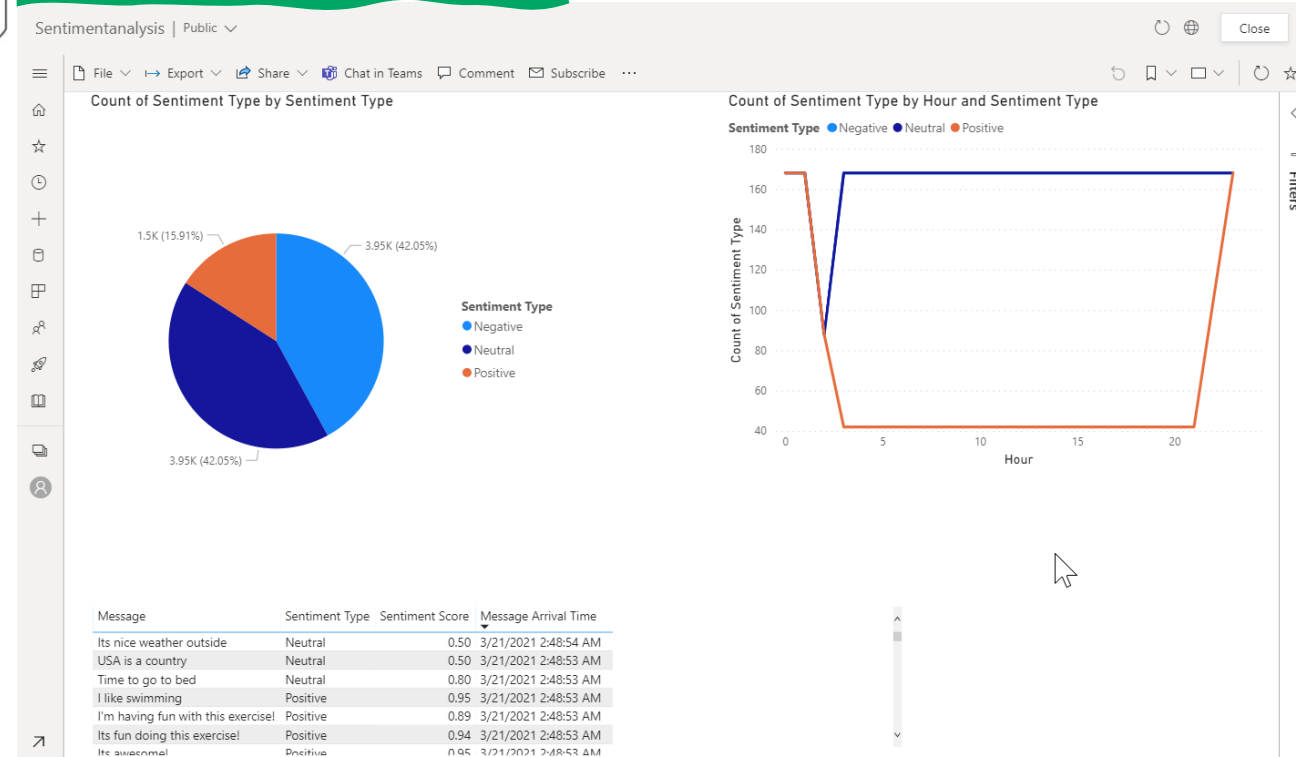


# CHALLENGE 4: LogicApp to Create a PowerBI Dashboard

- Creating a LogicApp that pulls all the tagged data from each queue
- Stores the semi-structured data into a CosmosDB instance
- Generates a cool PowerBI dashboard to show the results!



Start HERE for directions for Challenge 4:  
<https://aka.ms/tf21serverlessCh4>



# Start here: Challenge 1

[Discover sentiment in text with the Text Analytics API - Learn | Microsoft Docs](#)

<https://aka.ms/TF21hackstep1>

# LINKS TO ALL DIRECTIONS

- CHALLENGE 1: <https://aka.ms/TF21hackstep1>

- CHALLENGE 2: <https://aka.ms/tf21serverlessCh2>

MSFT FTE LINK TO DIRECTIONS: [https://microsoft-my.sharepoint.com/:w:/p/vramasubbu/ER6rPN5M9DJlruMhOdLrFgwBryB1HLpjPddT\\_fXOIjfnHg](https://microsoft-my.sharepoint.com/:w:/p/vramasubbu/ER6rPN5M9DJlruMhOdLrFgwBryB1HLpjPddT_fXOIjfnHg)

- CHALLENGE 3: [Live Overview!](#)

- CHALLENGE 4: <https://aka.ms/tf21serverlessCh4>

MSFT FTE LINK TO DIRECTIONS: <https://microsoft-my.sharepoint.com/:w:/p/kapildhanger/EQDROn-mt7hOsTLStlLwUpIBTTRsUw8fdBuLKY8OkGa-Dw>



# Thank you

**Presenter Name**

presenter.name@milliman.com