

# INTERNSHIP PROJECT

## PROJECT REPORT

### TWITTER LOGIC APPS

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# ABSTRACT

This report shows how fast you can create business transactions with the power of Azure Logic Apps.

We will understand more about the key concepts of Serverless architecture and Modern Workflow tools as we go through the demonstration of the workflow process, created exclusively by Logic Apps.

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# INTRODUCTION

Azure Logic Apps is an Integration Platform as a Service (iPaaS). It is a consumption-based billing service, which requires an Azure Subscription to build and run logic apps. More recently, the Logic Apps team has also released, in the preview, a dedicated capacity version called Integration Service Environment (ISE). Azure Logic Apps is part of the Azure Integration Services platform, which includes Azure API Management Service Bus, and Event Grid.

Azure Logic Apps ISE includes VNet connectivity which allows customers to create direct connections to their on-premises assets without the use of an on-premises data gateway. It also includes the ability to have static outbound IP addresses, custom inbound domain names, isolated storage, scale out/in capabilities with a flat cost billing model.

Logic Apps simplifies how you design and build scalable solutions for app integration, data integration, system integration, enterprise application integration (EAI), and business-to-business (B2B) communication, whether in the cloud, on premises, or both.

Few workloads you can automate with logic apps:

- Process and route orders across on-premises systems and cloud services.
- Send email notifications with Office 365 when events happen in various systems, apps, and services.
- Move uploaded files from an SFTP or FTP server to Azure Storage.
- Monitor tweets for a specific subject, analyze the sentiment, and create alerts or tasks for items that need review.

To build enterprise integration solutions with Azure Logic Apps, you can choose from a growing gallery with 200+ connectors, which include services such as Azure Service Bus, Functions, and Storage; SQL, Office 365, Dynamics, Salesforce, BizTalk, SAP, Oracle DB, file shares, and more. Connectors provide triggers, actions, or both for creating logic apps that securely access and process data in real time.

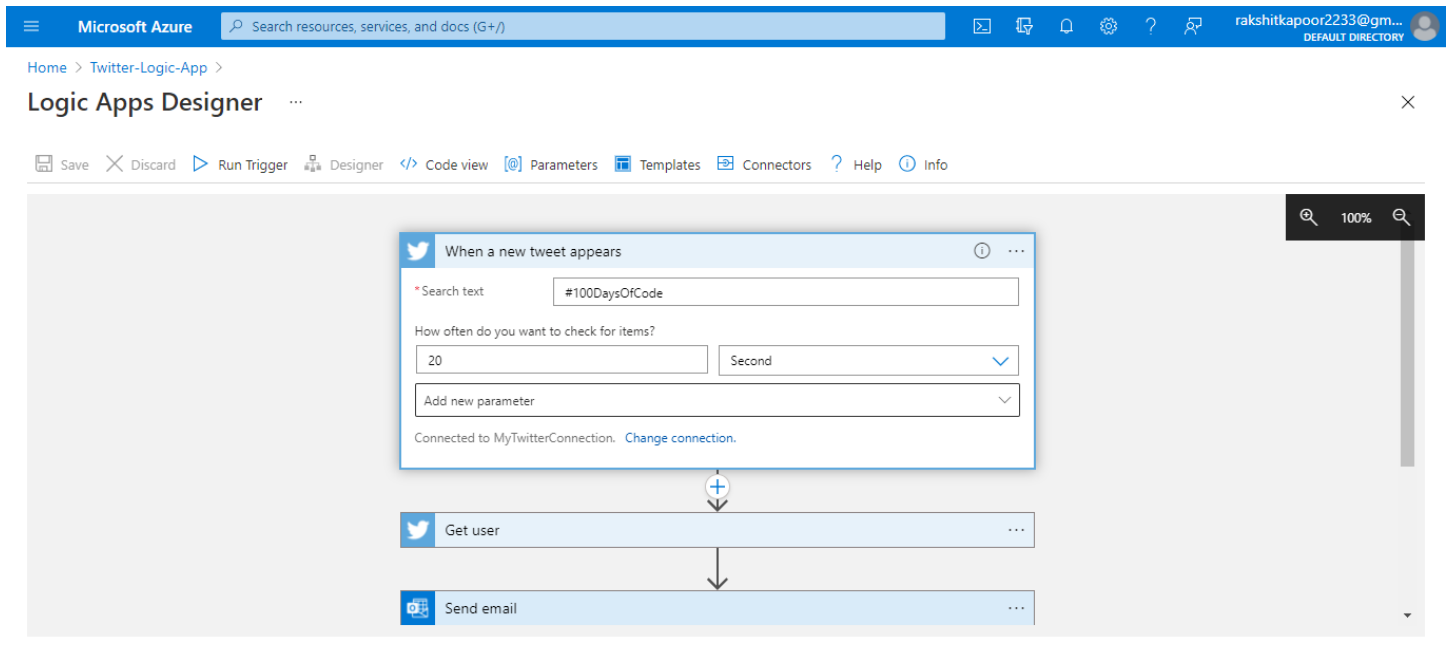
# OBJECTIVE

*Using Azure logic apps to monitor recent tweets on Twitter. The app sends email notification when new tweets are posted matching a search term with complete detail of the tweet including the complete description, followers, followed by and the username as well.*

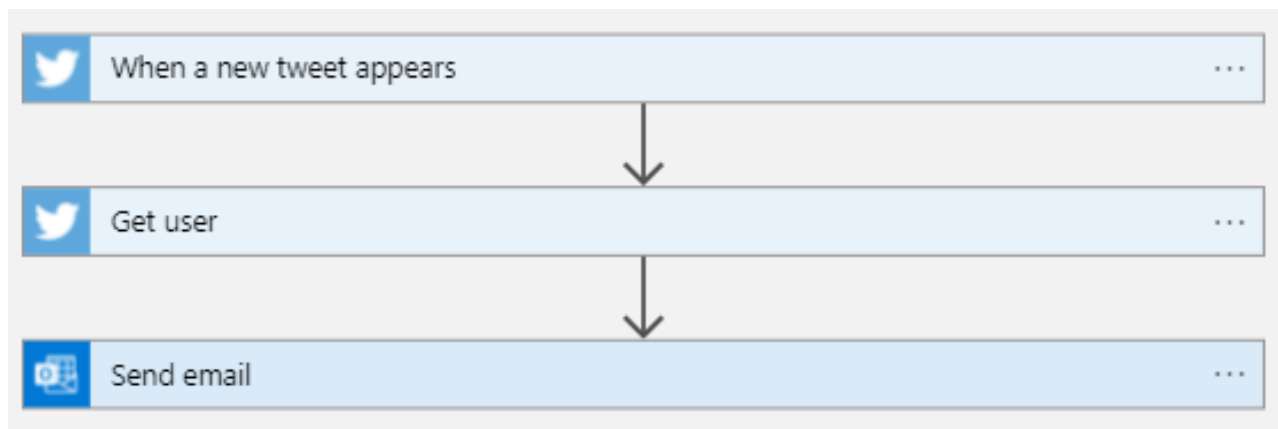
# PREREQUISITES

- Azure Logic Apps
- Outlook
- Twitter

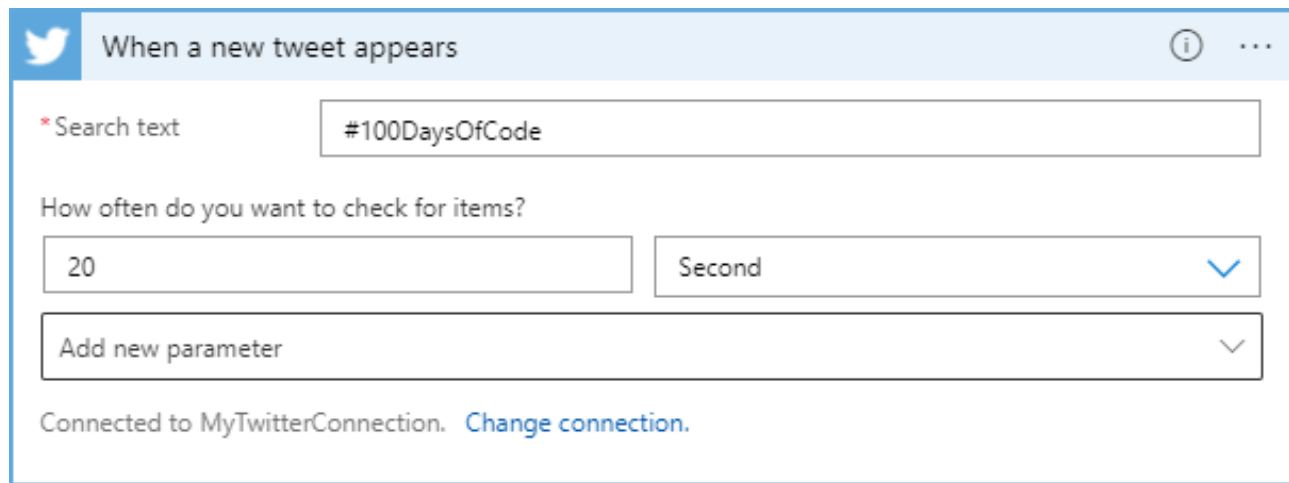
# APPLICATION WORKING



This is the window of Logic App Designer

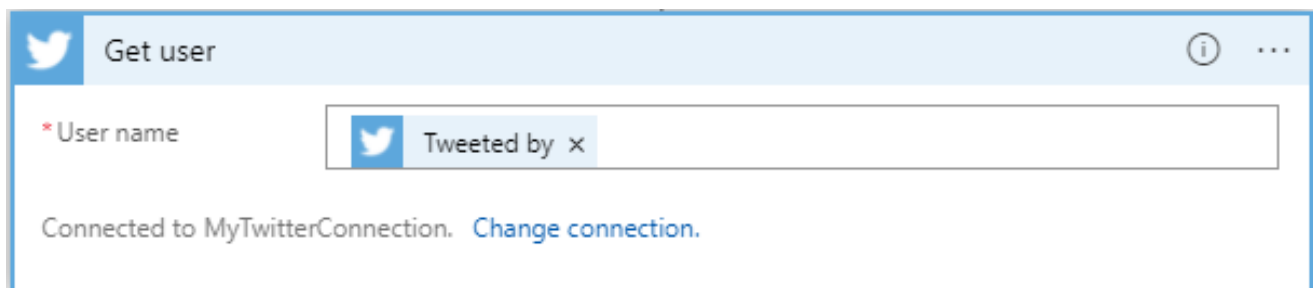


Complete Flow of Logic App



The screenshot shows a configuration window titled "When a new tweet appears" with a Twitter logo on the left and an information icon on the right. The main content area includes a search text field containing "#100DaysOfCode". Below this is a section titled "How often do you want to check for items?" with a numeric input field set to "20" and a dropdown menu set to "Second". At the bottom of this section is a button labeled "Add new parameter". The footer of the window states "Connected to MyTwitterConnection." with a link to "Change connection."

When a new Tweet appears for the #100DaysOfCode it will check for it for 20 seconds



The screenshot shows a configuration window titled "Get user" with a Twitter logo on the left and an information icon on the right. The main content area includes a user name field with a dropdown menu set to "Tweeted by". The footer of the window states "Connected to MyTwitterConnection." with a link to "Change connection."

It retrieves the username of the tweet

Send email

\*Body

Tweet: Tweet text x

----

Tweeted at: CreatedAt x

https://twitter.com/ Tweeted by x /status/ Tweet id x

---

Tweeted by: User name x

Description: Description x

Followers: Followers count x

Friends: Friends count x

\*Subject

New tweet from Name x

\*To

rakshitkapoor2345@gmail.com

CC

rajatkp11@gmail.com; vanshikaaa1009@gmail.com

Add new parameter

Connected to Outlook.com. [Change connection.](#)

This will send the mail to the specified person with complete details about the tweet as shown.

Microsoft Azure

Search resources, services, and docs (G+)

Home >

Twitter-Logic-App

Logic app

Run Trigger

Refresh

Edit

Delete

Enable

Update Schema

Clone

Open in mobile

Export

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Development Tools

Logic app designer

Logic app code view

Versions

API connections

Quick start guides

Settings

Workflow settings

Authorization

Introducing the new portable Logic Apps runtime that supports local development and debugging. Click to learn more. →

Essentials

Resource group (change) : Logic-App-Twitter

Location : South India

Subscription (change) : Azure for Students

Subscription ID : 6144f08b-cd62-4457-8781-7f023c60ba00

Definition : 1 trigger, 2 actions

Status : Disabled

Runs last 24 hours : 0 successful, 0 failed

Integration Account : -- --

Get started

Runs history

Trigger history

Metrics

All

Start time earlier than

Pick a date

Pick a time

Specify the run identifier to open monitor view directly

Status	Start time	Identifier	Duration	Static Results
✓ Succeeded	7/14/2021, 5:33 PM	08585753426509598160809154065CU31	863 Milliseconds	
✓ Succeeded	7/14/2021, 5:33 PM	08585753426509598161809154065CU27	1.33 Minutes	
✓ Succeeded	7/14/2021, 5:33 PM	08585753426509598162809154065CU31	7.01 Seconds	
✓ Succeeded	7/14/2021, 5:33 PM	08585753426509598163809154065CU25	683 Milliseconds	

When a new tweet appears 1s

INPUTS Show raw inputs >

Search text

#100DaysOfCode

OUTPUTS Show raw outputs >

Headers

Key	Value
Pragma	no-cache
Transfer-Encoding	chunked
Retry-After	3600

Body

```

{
  "TweetText": "RT @TEWriters2: Pay us to do or write your \n#Accou",
  "TweetId": "1426132269370596280",
  "CreatedAt": "Fri Aug 13 10:43:23 +0000 2021",
  "CreatedAtIso": "2021-08-13T10:43:23.000Z",
  "RetweetCount": 2,
  "TweetedBy": "Bills_Bot",
  "Retweeted": false
}

```

Get user 1s

INPUTS Show raw inputs >

User name

Bills\_Bot

OUTPUTS Show raw outputs >

Name

Bills Bot

Location

Jammu And Kashmir

User name

Bills\_Bot

Description

I'm a Bot 🤖, retweets #100daysofcode #30daysofcode. Created by @sof

Show more >

Send email 0s

INPUTS Show raw inputs >

To

nakshitskapoor2345@gmail.com

Subject

New tweet from Bills Bot

Body

Tweet: RT @TEWriters2: Pay us to do or write your  
#Accounting  
#Essaypay  
#Econometrics  
#javascript  
#WomenkhaCode  
#Assignment  
#100DaysOfCode

Show more >

OUTPUTS Show raw outputs >

Status code

200

Headers

Key	Value
Pragma	no-cache
x-request-id	4ac70609-0810-...
Strict-Transport-Security	max-age=31536...

Complete information of a single tweet



### New tweet from Bills Bot



Rakshit Kapoor <rakshitkapoor2233@gmail.com>

4:13 PM

To: rakshitkapoor2345@gmail.com Cc: rajatkp11@gmail.com; vanshikaaa1009@gmail.com

Tweet: RT @TEWriters2: Pay us to do or write your

#Accounting

#essaypay

#Econometrics

#javascript

#WomenWhoCode

#Assignment

#100DaysOfCode

#Ess...

----

Tweeted at: Fri Aug 13 10:43:23 +0000 2021

[https://twitter.com/Bills\\_Bot/status/1426132269379596289](https://twitter.com/Bills_Bot/status/1426132269379596289)

---

Tweeted by: Bills\_Bot

Description: I'm a Bot 🤖, retweets #100daysofcode #30daysofcode. Created by @sofibilal193.

Followers: 330

Friends: 1

## Mail Received Format

# CONCLUSION

Think about all the infrastructure changes you might end up needing, provisioning more resources and installing and configuring a lot of features in your servers.

With the help of Azure Logic Apps and Azure Functions, adding another step is as simple as, well, adding another step to an intuitive diagram interface, one that visually represents your workflow, allowing even business users to make changes and adequate the workflow to its needs, no infrastructure changes required.

That is the true power of serverless offers from Azure, delivering more value in significantly less time, in an intuitive and straightforward way.

# REFERENCES

- [\[Azure Logic Apps Documentation\]](#)
- [\[Azure Event Grid Documentation\]](#)
- [\[Azure Serverless Computing\]](#)
- [\[Serverless Concepts\]](#)