



# **SNS COLLEGE OF TECHNOLOGY**

**Coimbatore-35**

**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with  
'A++' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University,  
Chennai



## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

### **19ECT213- IoT SYSTEM ARCHITECTURE**

II ECE / IV SEMESTER

UNIT 3 – CLOUD PLATFORMS FOR IoT

### **TOPIC 4 --Cloud Services:IFTTT Study of IoT Cloud Platforms**



# Cloud Services:IFTTT Study of IoT Cloud Platforms

- If This Then That (IFTTT) is defined as a web-based automation platform that enables users to connect different web applications and services to automate tasks and create new functionality.
- It helps create simple, conditional statements known as applets, which changes in other applications or services can trigger.
- <https://ifttt.com/onboarding/services>



# Cloud Services:IFTTT Study of IoT Cloud Platforms

- An IoT cloud is a massive network that supports IoT devices and applications. This includes the underlying infrastructure, servers and storage, needed for real-time operations and processing.
- IFTTT helps connect different apps and devices. When you sign up for a free account, you can enable your apps and devices to work together to do things they couldn't otherwise do.
- It reduces costs, saves time, and simplifies maintenance by allowing one integration to connect with multiple services and products. Additionally, it provides opportunities to build relationships with developer communities and gain insights into future product innovations.



# Cloud Services:IFTTT Study of IoT Cloud Platforms

- IFTTT helps connect different apps and devices. When you sign up for a free account, you can enable your apps and devices to work together to do things they couldn't otherwise do.
- For example, you can back up your Instagram photos to Dropbox, have your lights turn on when you enter your home, or automatically remind a Slack channel about a meeting.



# Cloud Services:IFTTT Study of IoT Cloud Platforms



- Here's how it works:
- Create a free account.
- Browse the IFTTT website or app to find something that interests you.
- Connect the services that are involved in the Applet or connection.
- Find more Applets and connections, and repeat!
- Applets and connections can be built by services or users from the Developer Dashboard. You also have the power to create something custom for yourself! Go to [ifttt.com/create](https://ifttt.com/create) to combine two services and make your own Applet!



# Cloud Services:IFTTT Study of IoT Cloud Platforms

- Integrating with IFTTT offers significant advantages over in-house builds. It reduces costs, saves time, and simplifies maintenance by allowing one integration to connect with multiple services and products.
- Additionally, it provides opportunities to build relationships with developer communities and gain insights into future product innovations.
- You've decided to connect your products with other services and products, but there is one more major decision that you have to make: choose the way of building integration.
- Many people choose in-house builds, but without having considered their disadvantages.



# Cloud Services:IFTTT Study of IoT Cloud Platforms



How to Integrate with IFTTT?

To integrate your products with IFTTT services, start by creating your service and submitting it for review. Once approved, create connections to enable actions, triggers, and queries. Finally, publish your connections to make them available for users and developers to integrate with your products.

-



# Cloud Services: IFTTT Study of IoT Cloud Platforms



- Ref : <https://www.youtube.com/watch?v=vHk3nbnqxHo>







## Some cool ideas

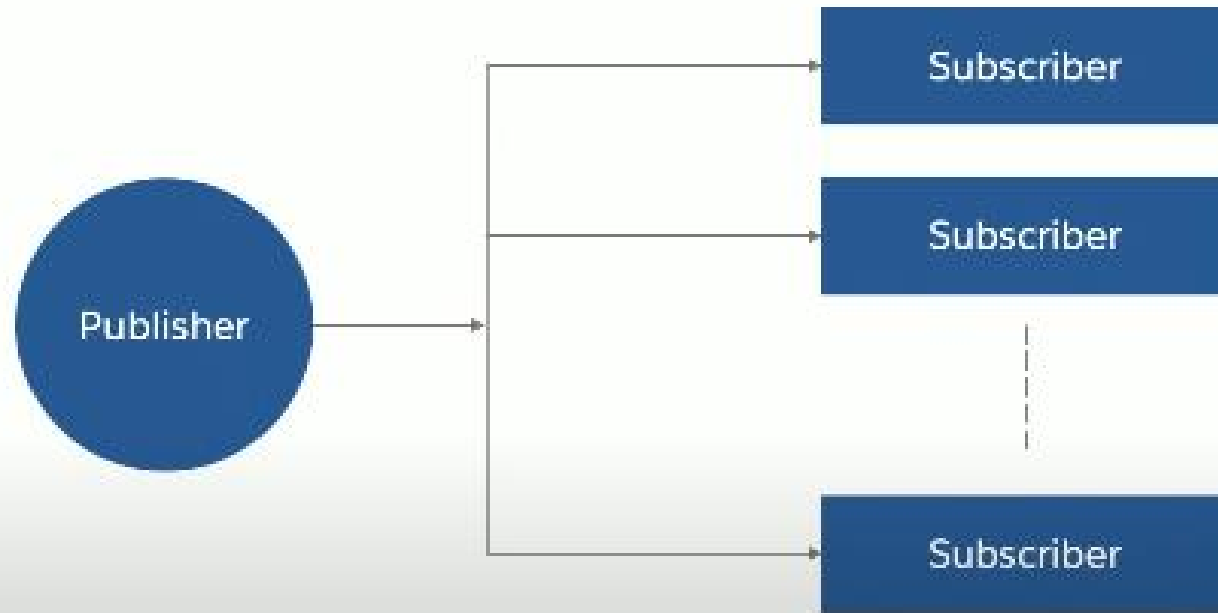
- Flicker Philips Hue Bulbs in Blue when an Opportunity is Won.
- Create a Case in Salesforce when a user tweets with hashtag #badservice
- When you post a picture on Instagram, put it on Chatter as well
- Post Daily Weather Report on Chatter
- Ok Google, Read me my tasks from Salesforce





# Connectivity Mechanism

## Publish and Subscribe





If this, then that



  
**IFTTT**



If this, then that



Apps

IFTTT



Devices



if  then 

New tweet from search for  
Hatchbuck

Send an email from  
alryear@hatchbuck.com







# Integration Architecture with Salesforce



External Services



# Integration Architecture with Salesforce







IFTTT

My Applets

Activity

Search


atopalli


# Applets for photography



## Recommended for you

  
**My Blogger posts to twitter**

  
**Log your completed Uber trips in a spreadsheet**







  
**A reminder to drink water**



IFTTT My Applets Activity Search atopalli

Filter services

### Appliances

 Appkettle	 Brilliant Smart	 Etekcity Switch	 G Smart	 GE APPLIANCES COOKING GE Appliances Cooking	 GE APPLIANCES DISHWASHER GE Appliances Dishwasher
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IFTTT

My Applets

Activity

Search

atopalli





IFTTT



My Applets



Activity



Search



atopalli

My Applets > Twitter



## Twitter settings

[View activity log](#)

### Account Info

Connected as: **adityanaag**

Status: **active**

Edit connection

Disconnect Twitter



My Applets [▶](#) Salesforce



## Salesforce settings

[View activity log](#)

### Account Info

Connected as: [Aditya Naag Topalli](#)  
URL: <https://playful-bean-xDrod5-dev-ed.my.salesforce.com/0052v00000VvOHAAN>  
Status: active

[Edit connection](#)

[Disconnect Salesforce](#)




https://ifttt.com/services/salesforce/settings

IFTTT My Applets Activity Search

My Applets > Salesforce

aditya

- New Applet
- Services
- Settings
- Sign out



## Salesforce settings

[View activity log](#)

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### Account info

Connected as: **Aditya Naag Topalli**

URL: <https://playful-bear-x0rod5-dev-ed.my.salesforce.com/0052v000000VxCHIAAN>

Status: **active**

[Edit connection](#)

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[Disconnect Salesforce](#)



IFTTT



My Applets



Activity



Search



atopalli

## New Applet

# if this then that

Want to build your own service? [Build on the platform](#)

[About](#)

[Help](#)

[Jobs](#)

[Terms](#)

[Privacy](#)

[Trust](#)






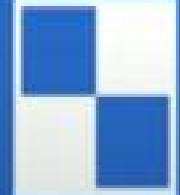
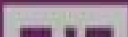





Build your own service and Applets



Back

# Choose a service

Step 1 of 6

 Twitter	 Date & Time	 RSS Feed	 Email	 Phone Call (US only)	 Delicious
					





### **New tweet by you**

This Trigger fires every time you post a new tweet.

### **New tweet by you with hashtag**

This Trigger fires every time you post a new tweet with a specific hashtag.

### **New tweet by you in area**

This Trigger fires every time you post a tweet at a location you specify.

### **New mention of you**

This Trigger fires every time you are @mentioned in a tweet.

### **New follower**

This Trigger fires every time a new user starts following you.

### **New link by you**

This Trigger fires for every link you tweet. If your tweet has multiple links, it will fire multiple times.

### **New liked tweet by you**

This Trigger fires every time you like a tweet.

### **New tweet by a specific user**

This Trigger fires every time the Twitter user you specify tweets.

### **New tweet from search**

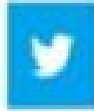
This Trigger fires every time a new tweet matches your search query. NOTE: limited to 15 tweets per check.

### **New tweet by anyone in area**

This Trigger fires every time anyone posts a tweet at a location you specify.



← Back



## Complete trigger fields

Step 2 of 6

### New tweet from search

This trigger fires every time a new tweet matches your search query. NOTE: limited to 15 tweets per check.

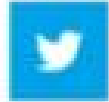
Search for

Use Twitter's search operators for advanced search. For example: ("twitter" "followFriday")

Create trigger



← Back



## Complete trigger fields

Step 2 of 4

### New tweet from search

This Trigger fires every time a new tweet matches your search query. NOTE: limited to 15 tweets per check.

Search for

#tdx19

Use the following operators for advanced search. For example: ("twitter" "followfriday")

Create trigger



IFTTT

My Applets

Activity

Search

@stopall

< Back

## Choose action service

Step 3 of 6

safe  
HUB6

SAFE By HUB6



Samsung Air Purifier



TomTom SetNav



Samsung Room Air Conditioner



Salesforce



Samsung Robot Vacuum



← Back



## Choose action

Step 4 of 6

### Post Chatter message

This Action will post a new message on your Chatter feed or in a group.

### Post Chatter file

This Action will post a file on Chatter. NOTE: 30 MB file size limit.

### Post Chatter link

This Action will post a link on Chatter.

### Advanced: Insert a Record

This Action will insert a record into any SObject and set up to five fields on the new record.

Don't see what you're looking for?

Suggest a new action



https://sns.com/instat/...new-tweet-from-search-then-advanced-insert-a-record?id=8

Step 5 of 6

### Advanced: Insert a Record

This Action will insert a record into any SObject and set up to five fields on the new record.

SObject

Loading... ▾

Field Name 1

@UserName : Text (via Twitter) | LinkToTweet

The name of the field from the SObject definition on Salesforce. **Add Ingredient**

Field Value 1

TweetEmbedCode <br>  
<br>  
CreatedAt <br>  
via Twitter https://twitter.com/



Subject and set up to five fields on the new record.

**SObject**

Case

**Field Name 1**

Subject

The name of the field from the SObject definition on Salesforce. **Add Ingredient**

**Field Value 1**

((Text))

The value of the field. **Add Ingredient**

**Field Name 2**

@UserName Text (via Twitter) **LinkToTweet**

The name of the field from the SObject definition on Salesforce. **Add Ingredient**



https://sns.edu/track?new\_tweet\_from\_search\_then\_advanced\_insert\_a\_record?tab=1

App Store | Developer | My Applets | Activity | Search | atopall

[← Back](#)

## Review and finish

Step 6 of 6

works with



https://sns.edu/track?new\_tweet\_from\_search\_then\_advanced\_insert\_a\_record?tab=1

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works with

Receive notifications when this Applet runs

**Finish**





**IFTTT**

My Applets

Activity

Search

atopalli

My Applets > Twitter

If New tweet from search for #tdx19, then insert a Record

by atopalli

[Learn more](#)

On



- Ref : <https://www.youtube.com/watch?v=vHk3nbnqxHo>