



USING POWER AUTOMATE WITH OFFICE APPS

Ynte Jan Kuindersma

Access Usergroups - Europe
Online

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Who am I?



Ynte Jan Kuindersma
Power BI Developer
Groningen, Netherlands

 info@birdautomation.nl

<http://www.birdautomation.at>

- Freelance software developer
- MS Access, MS SQL server, .NET, Excel, Power BI, VBA
- Microsoft Certified Data Analyst (DA-100)
& Microsoft Certified: Fabric Analytics Engineer Associate (DP-600)
- Public speaker at Power Platform events



The problem I am solving (perhaps)

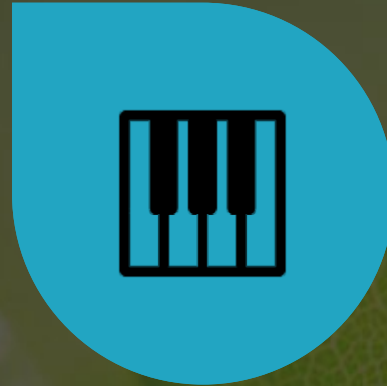
- The Outlook objects & VBA divorce?
- Automating a lot of other applications outside the Microsoft bubble from MS Office & VBA
- GRAPH without the hassle?
 - Well, I did not get the authentication working..



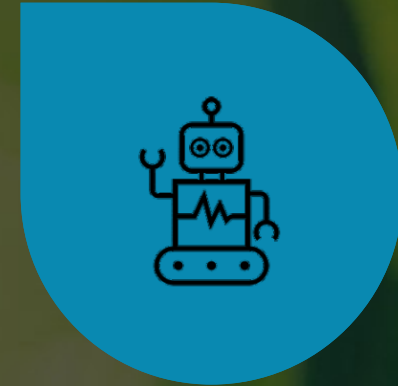
Power Platform



POWER BI



POWER APPS



POWER
AUTOMATE

DATAVERSE

Can YOU use it? Yes!

- Basic use included in Microsoft 365 Business & E?
- Premium license \$15 / €14 per month
 - HTTP request trigger
 - SQL Server



You already
have it...

Where to find it?

- <https://make.powerautomate.com>
- <https://www.microsoft365.com>
- <https://portal.office.com>

Building blocks

- Triggers
 - This starts a flow
- Actions
 - The things a flow can do for you
- Controls
 - The logic, loops, variables, transformations to control the steps in a flow

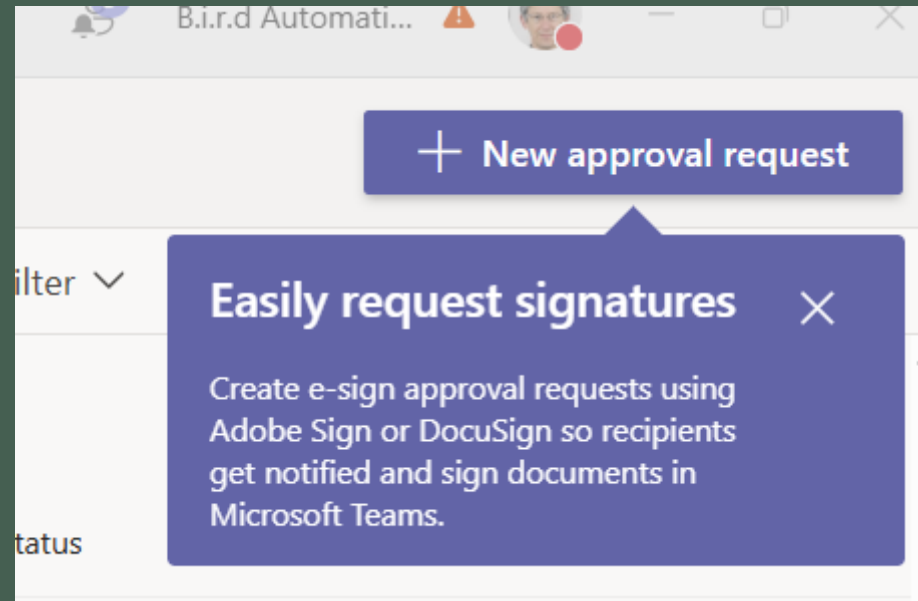
3 Types of Triggers

- Scheduled
 - Every morning at 9:00: sending an email to all the colleagues
- Automatic
 - When an email from the boss is coming in, respond with a nice greeting back (Tip: use GPT in the flow)
- Manual (Instant)
 - Someone pushes a “button” or sends a http request to the flow

Just some Actions

- Send mail Outlook & Gmail & any other mail-api
- Create a new contact or meeting request
- Post something in Teams or LinkedIn
- Iterate over a SharePoint List / Excel sheet / SQL table / Dataverse / Oracle
- Work with the Office suite (Word, Excel, Onedrive, Teams, Outlook)
- Sign documents with Adobe Sign
- Interact with Chat GPT
- Call Azure Functions for extra power
- Start and monitor Approvals

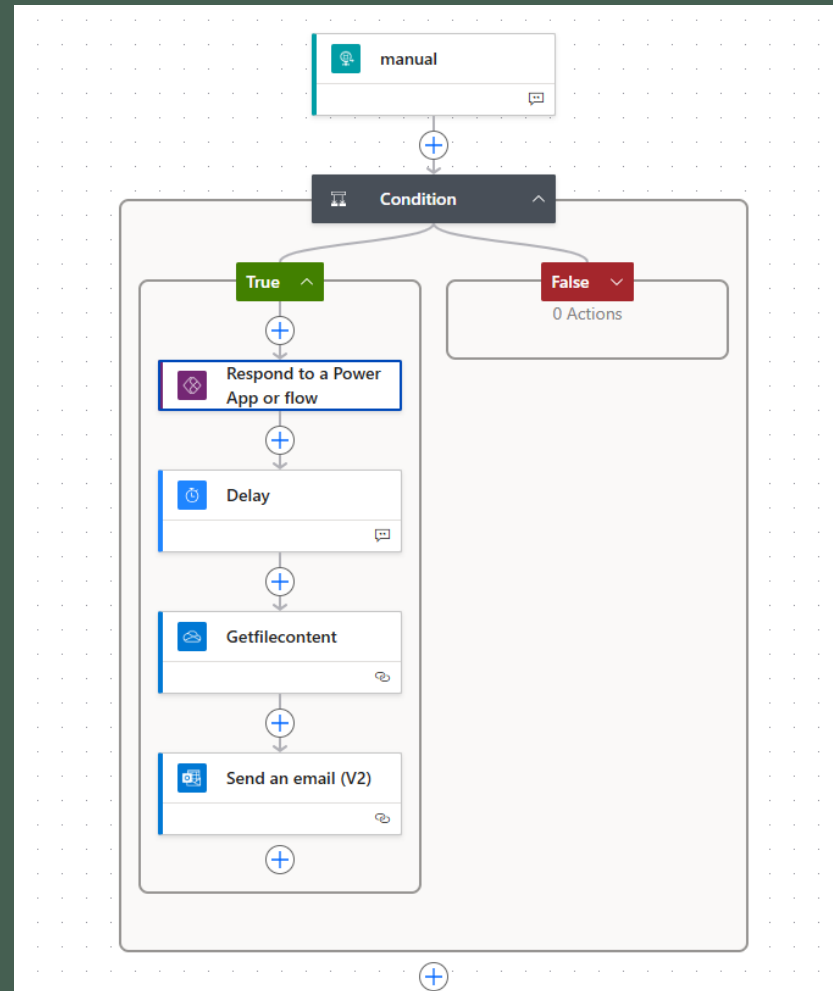
And Approvals



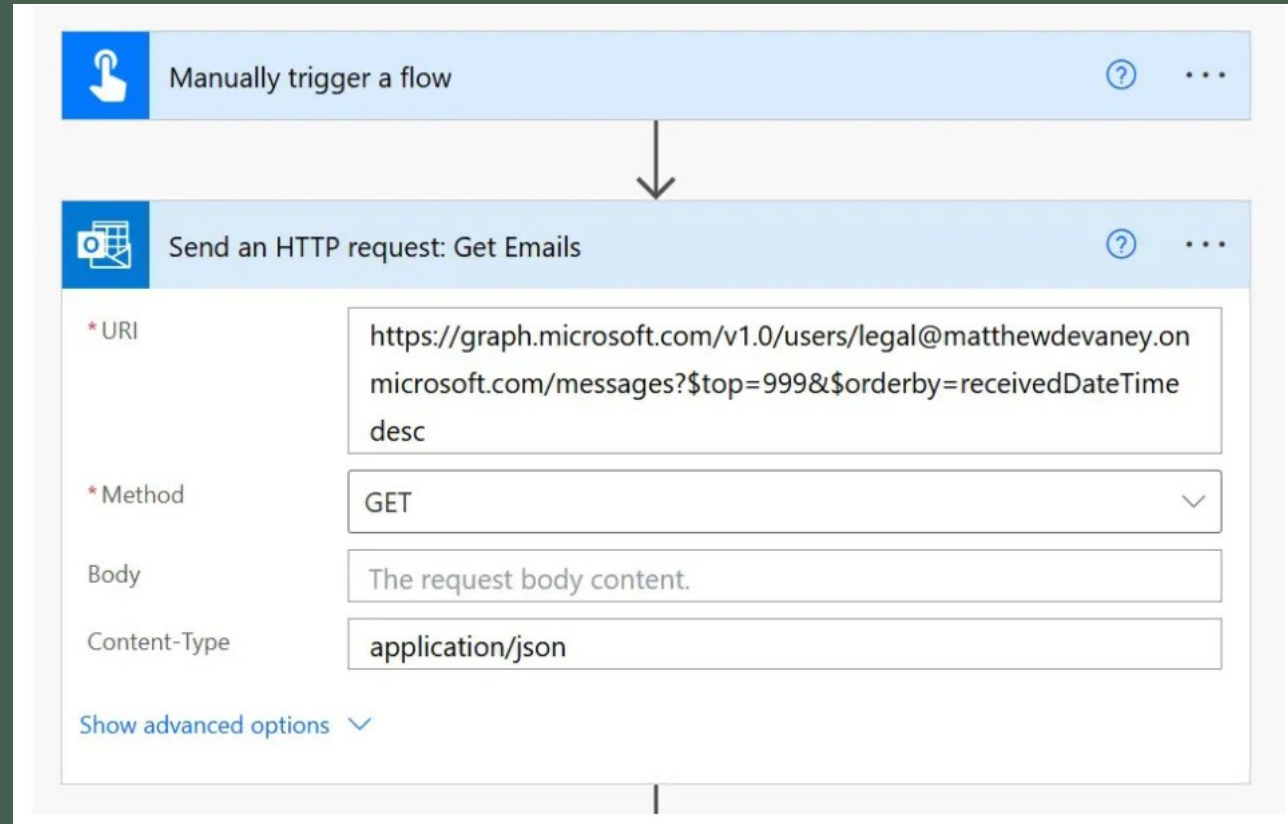
Controls

- Variables
 - String, Number, Array, Object
- Loops
 - For Each / Do Until
- Conditions
 - If Then
- Parse JSON
- Select

What does it look like?



What does a Grapgh call look like?



The image shows a screenshot of a Power Automate flow configuration. The first step is 'Manually trigger a flow'. An arrow points down to the second step, 'Send an HTTP request: Get Emails'. The configuration for this step is as follows:

* URI	<code>https://graph.microsoft.com/v1.0/users/legal@matthewdevaney.onmicrosoft.com/messages?\$top=999&\$orderby=receivedDateTime desc</code>
* Method	GET
Body	The request body content.
Content-Type	application/json

At the bottom of the configuration area, there is a link 'Show advanced options' with a downward arrow.

<https://www.spguides.com/send-an-email-with-attachments-in-power-automate/>

Let me show you how it works..

- Demo

How to call a flow from VBA using VBA-WEB with a payload?

```
Sub push_meeting()
```

```
    Dim Body As New Dictionary '(c) Tim Hall - https://github.com/VBA-tools/VBA-Web
```

```
    Body.Add "subject", "Subject " & Date
```

```
    Body.Add "Message", "Message"
```

```
    Body.Add "StartTime", "2025-04-11T17:00:00"
```

```
    Body.Add "EindTime", "2025-04-11T17:15:00"
```

```
    Body.Add "Required", "admin@donkarl.com"
```

```
    'This body will be posted:
```

```
    '{"subject":"Subject + Date","Message":"Message","StartTime":"2025-04-11T17:00:00","EindTime":"2025-04-11T17:15:00","Required":"admin@donkarl.com"}
```

```
    Dim endpoint As String
```

```
    'endpoint address of the Logic App
```

```
    endpoint = "https://prod-00.westeurope.logic.azure.com:443/workflows/38a9f8fd024104919d7de76308b920/triggers/default?api-version=2016-06-01"
```

```
    Dim Client As New WebClient '(c) Tim Hall - https://github.com/VBA-tools/VBA-Web
```

```
    Dim response As WebResponse '(c) Tim Hall - https://github.com/VBA-tools/VBA-Web
```

```
    Set response = Client.PostJson(endpoint, Body) '(c) Tim Hall - https://github.com/VBA-tools/VBA-Web
```

```
    Debug.Print response.Body
```

```
End Sub
```

How to post a payload?

Request Body JSON Schema

```
{
  "type": "object",
  "properties": {
    "subject": {
      "type": "string"
    },
    "Message": {
      "type": "string"
    },
    "StartTime": {
      "type": "string"
    },
    "EndTime": {
      "type": "string"
    },
    "Required": {
      "type": "string"
    }
  }
}
```

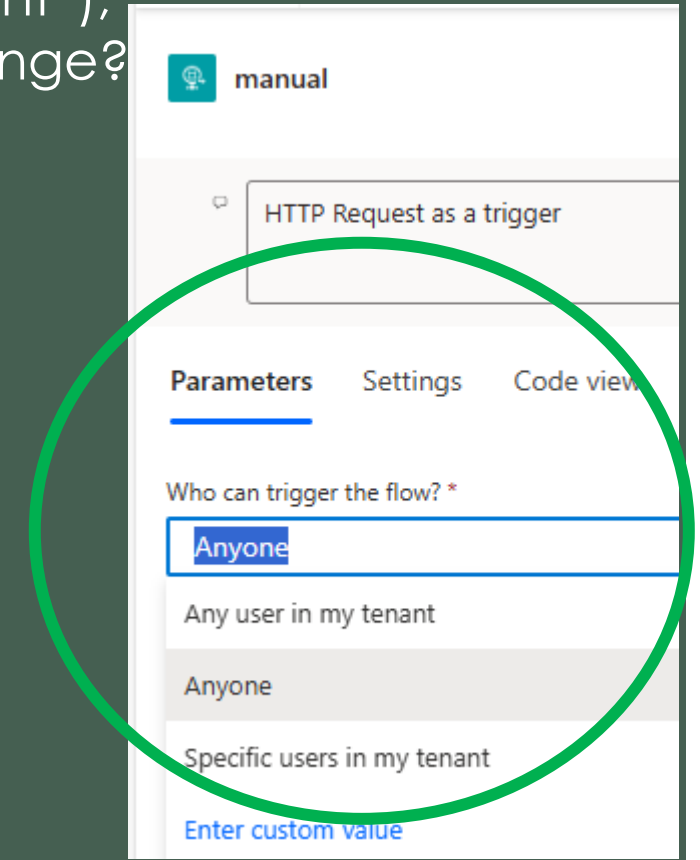
[Use sample payload to generate schema](#)

How to call a flow from VBA without VBA-WEB?

```
Sub flow()  
  
    Dim url As String  
    url = "https://prod-222.westeurope.logic.azure.com:443/workflows/057e59cb019749c4b00  
  
    Dim WinHttp As New WinHttp.WinHttpRequest  
  
    WinHttp.Open "POST", url, False  
  
    WinHttp.SetRequestHeader "Accept", "application/json"  
    WinHttp.SetRequestHeader "Content-Type", "application/json"  
  
    Dim postData As String  
    postData = "{""email"": ""example@example.com"", ""subject"": ""Meeting Reminder"", "  
    WinHttp.Send postData  
  
    |  
    Dim response As String  
    response = WinHttp.ResponseText  
    Debug.Print response  
  
End Sub
```

How about Security?

- Trigger can be protected by Entra ID (“Any user in my tenant”), **but I could not make it work**. Someone takes up the challenge?
- Trigger can be a public endpoint (“Anyone”) but then additional security can be added “handmade”
 - Client IP filter
 - Looking up username in a list of users (SharePoint / Entra / Contacts)
 - Reading environment variables from the client and posting it to the flow
 - `userName = Environ("USERNAME")`
 - `computerName = Environ("COMPUTERNAME")`





QUESTIONS?

Learn?

- <https://make.powerautomate.com/>
- <https://learn.microsoft.com/en-us/training/powerplatform/power-automate>
- <https://www.youtube.com/@RezaDorrani>
- https://www.youtube.com/results?search_query=power+automate
- Kevin Stratvert: <https://www.youtube.com/watch?v=dDO4Y4aDYXw>

← Back auge

Manually trigger a flow

Parameters Settings Code view About

	to	Please enter your input	...
	subject	Please enter your input	...
	amount	Please enter a number	...
	duedate	Please enter or select a date (YYYY-MM-DD)	...
	attach	Please select file or image	...

+ Add an input

 Manually trigger a flow



 Send an email (V2)



← Back auge

Collapse

Send an email (V2)



Parameters Settings Code view Testing About

To *



 to ×

Subject *

 subject ×

Body *

  Normal ▾ Arial ▾ 15px ▾ **B** *I* U    

you owe me money:  amount ×
plwase pay for:  duedate ×

Sensitivity

Sensitivity ▾

Advanced parameters

Showing 2 of 6 ▾

Show all

Clear all

Attachments

```
[
  {
    "Name":  attach name × ,
    "ContentBytes":  attach contentB... ×
  }
]
```



← Back http - mail with attachement from onedrive

 manual

HTTP Request as a trigger

Parameters Settings Code view About

Who can trigger the flow? *

Anyone

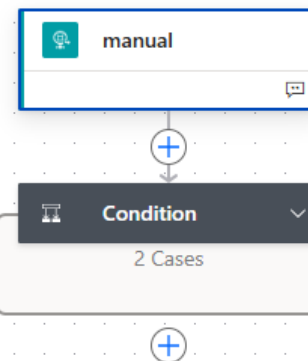
HTTP URL

https://default1be102d4eb884d62b989e6ee733112.1d.environment.api.powerplatformfor...

Request Body JSON Schema

```
{
  "type": "object",
  "properties": {
    "email": {
      "type": "string"
    },
    "subject": {
      "type": "string"
    },
    "mailbody": {
      "type": "string"
    },
    "attachfile": {
      "type": "string"
    },
    "attachfilebytes": {
      "type": "string"
    },
    "username": {
      "type": "string"
    }
  }
}
```

[Use sample payload to generate schema](#)



Parameters

Settings

Code view

About

Condition expression *

Provide the values to compare and select the operator to use.

Or ▾

OneDrive X

contains ▾

B.i.r.d Automation

...

Choose a value

is equal to ▾

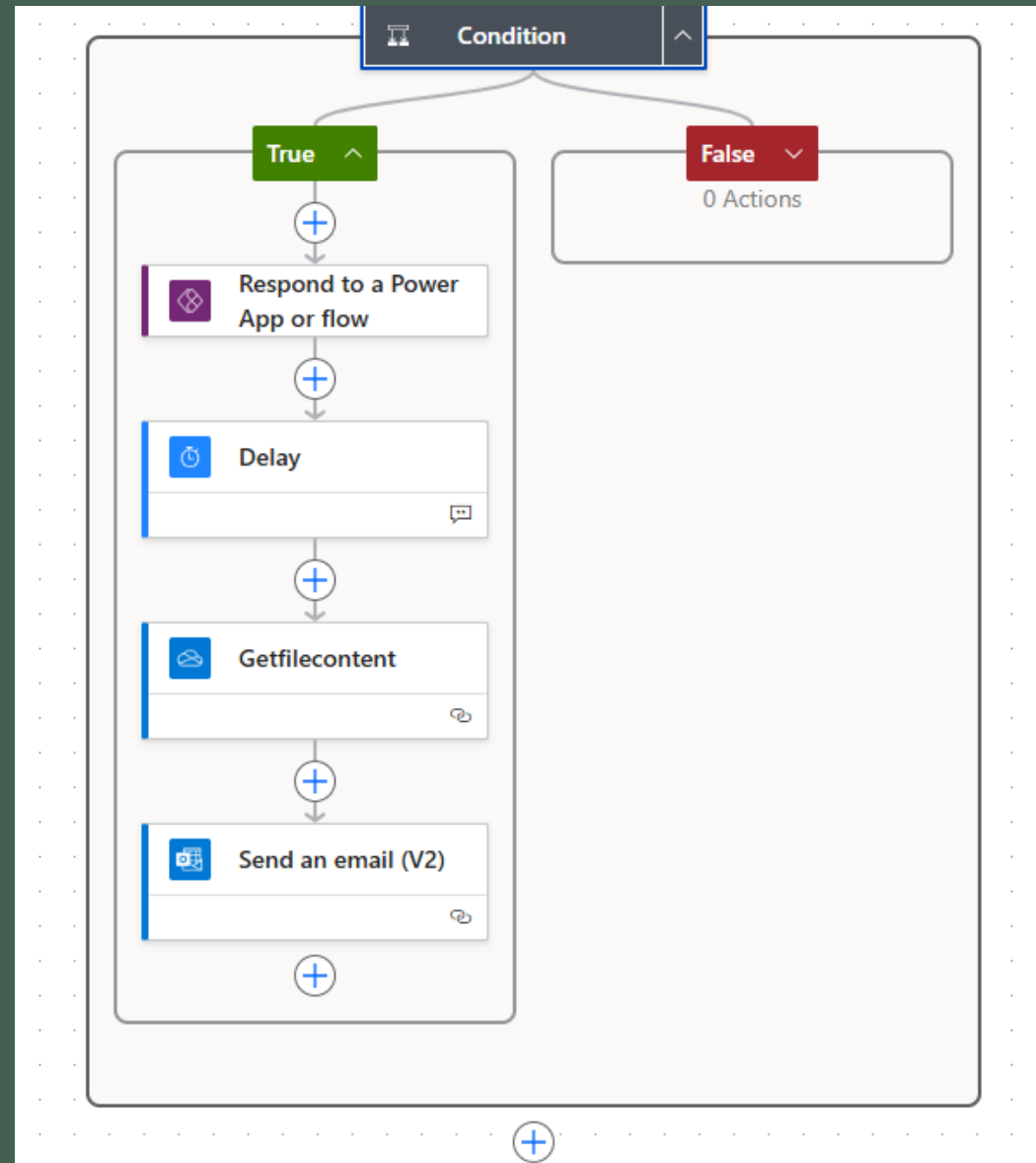
Choose a value

...

+

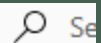
Add row

▾





Power Automate



Se



Back

http - mail with attachement from onedrive



Respond to a Power App or flow



Parameters

Settings

Code view

About



status

ok



file

attachfile X



Add an output