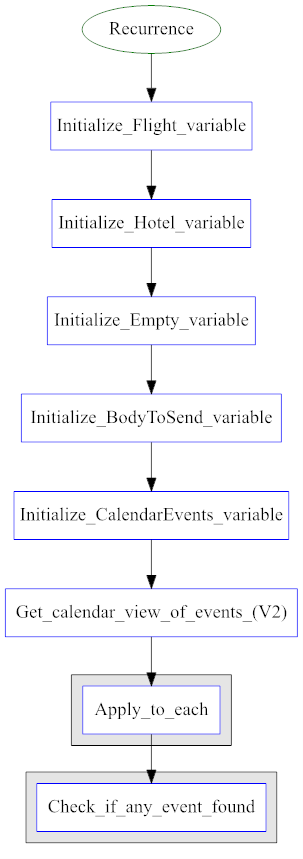
# Flow Documentation

|  |  |
| --- | --- |
| **Flow Name** | Email me with a list of upcoming Calendar events |
| **Flow ID** | e6b4e32f-c97d-4280-896b-57976ea698e3 |

## Flow Overview

The following chart shows the top level layout of the Flow. For a detailed view, please visit the section called Detailed Flow Diagram



## Connection References

The following connection references are used in this Flow:

### Office 365 Outlook

|  |  |
| --- | --- |
| **Connector** | [Office 365 Outlook](https://docs.microsoft.com/connectors/office365) |
| **ID** | b612ac9b883942f8bb974a9581ed70c1 |
| **Source** | Embedded |

### MSN Weather

|  |  |
| --- | --- |
| **Connector** | [MSN Weather](https://docs.microsoft.com/connectors/msnweather) |
| **ID** | shared-msnweather-0c1b1bed-03de-4ebb-9024-031e-c71a2cc1 |
| **Source** | Embedded |

### Office 365 Users

|  |  |
| --- | --- |
| **Connector** | [Office 365 Users](https://docs.microsoft.com/connectors/office365users) |
| **ID** | ecfeaa89c54a4d57b9e966f39c0b1bb8 |
| **Source** | Embedded |

## Trigger

|  |  |
| --- | --- |
| **Name** | Recurrence |
| **Type** | Recurrence |
| **Description** |  |
| **Recurrence Details** | |
| **frequency** | Week |
| **interval** | 1 |

## Actions

The following actions are used in this Flow:

### Get\_calendar\_view\_of\_events\_(V2)

|  |  |
| --- | --- |
| **Name** | Get\_calendar\_view\_of\_events\_(V2) |
| **Type** | ApiConnection |
| **Inputs** | |
| **host** | { "api": { "runtimeUrl": "https://flow-apim-europe-001-northeurope-01.azure-apim.net/apim/office365" }, "connection": { "name": "@parameters('$connections')['shared\_office365']['connectionId']" } } |
| **method** | get |
| **path** | /datasets/calendars/v2/tables/items/calendarview |
| **queries** | { "calendarId": "AAMkAGUxMmMwNDYxLTE2MWUtNDg4NS1hZTViLTQ0OGRiYTYxNjMxYQBGAAAAAAA9OrE7guxLRZawE4FUVzEDBwA85BmDcoplRqBtm4DAEgO5AAAAAAEGAAA85BmDcoplRqBtm4DAEgO5AAAAf\_AzAAA=", "startDateTimeOffset": "@{utcNow()}", "endDateTimeOffset": "@{addDays(utcNow(),6)}" } |
| **authentication** | @parameters('$authentication') |
| **Value** | { "host": { "api": { "runtimeUrl": "https://flow-apim-europe-001-northeurope-01.azure-apim.net/apim/office365" }, "connection": { "name": "@parameters('$connections')['shared\_office365']['connectionId']" } }, "method": "get", "path": "/datasets/calendars/v2/tables/items/calendarview", "queries": { "calendarId": "AAMkAGUxMmMwNDYxLTE2MWUtNDg4NS1hZTViLTQ0OGRiYTYxNjMxYQBGAAAAAAA9OrE7guxLRZawE4FUVzEDBwA85BmDcoplRqBtm4DAEgO5AAAAAAEGAAA85BmDcoplRqBtm4DAEgO5AAAAf\_AzAAA=", "startDateTimeOffset": "@{utcNow()}", "endDateTimeOffset": "@{addDays(utcNow(),6)}" }, "authentication": "@parameters('$authentication')" } |

### Initialize\_CalendarEvents\_variable

|  |  |
| --- | --- |
| **Name** | Initialize\_CalendarEvents\_variable |
| **Type** | InitializeVariable |
| **Inputs** | |
| **variables** | [ { "name": "CalendarEvents", "type": "Object", "value": { "Subject": "", "StartTime": "", "EndTime": "", "Location": "", "Hotel": "", "Flight": "", "CurrentWeather": "" } } ] |
| **Value** | { "variables": [ { "name": "CalendarEvents", "type": "Object", "value": { "Subject": "", "StartTime": "", "EndTime": "", "Location": "", "Hotel": "", "Flight": "", "CurrentWeather": "" } } ] } |

### Initialize\_BodyToSend\_variable

|  |  |
| --- | --- |
| **Name** | Initialize\_BodyToSend\_variable |
| **Type** | InitializeVariable |
| **Inputs** | |
| **variables** | [ { "name": "BodyToSend", "type": "Array" } ] |
| **Value** | { "variables": [ { "name": "BodyToSend", "type": "Array" } ] } |

### Initialize\_Empty\_variable

|  |  |
| --- | --- |
| **Name** | Initialize\_Empty\_variable |
| **Type** | InitializeVariable |
| **Inputs** | |
| **variables** | [ { "name": "Empty", "type": "String" } ] |
| **Value** | { "variables": [ { "name": "Empty", "type": "String" } ] } |

### Apply\_to\_each

|  |  |
| --- | --- |
| **Name** | Apply\_to\_each |
| **Type** | Foreach |
| Subactions | [Check\_if\_location\_is\_empty](#Check_if_location_is_empty)  [Check\_if\_its\_Flight](#Check_if_its_Flight)  [Compose\_Flight\_or\_Hotel](#Compose_Flight_or_Hotel)  [Empty\_Flight\_variable](#Empty_Flight_variable)  [Empty\_Hotel\_variable](#Empty_Hotel_variable) |

### Check\_if\_location\_is\_empty

|  |  |
| --- | --- |
| **Name** | Check\_if\_location\_is\_empty |
| **Type** | If |
| **Expression** | @not(empty(items('Apply\_to\_each')?['Location'])) |
| Subactions | [Get\_current\_weather](#Get_current_weather)  [Set\_CalendarEvents\_variable](#Set_CalendarEvents_variable)  [Compose\_Weather](#Compose_Weather)  [Set\_CalendarEvents](#Set_CalendarEvents)  [Append\_to\_array\_variable](#Append_to_array_variable)  [Append\_to\_CalendarEvents\_array\_variable](#Append_to_CalendarEvents_array_variable) |
| Elseactions | [Set\_CalendarEvents\_Values](#Set_CalendarEvents_Values)  [Append\_to\_CalendarEvents\_array](#Append_to_CalendarEvents_array) |

### Check\_if\_its\_Flight

|  |  |
| --- | --- |
| **Name** | Check\_if\_its\_Flight |
| **Type** | If |
| **Expression** | @contains(toLower(outputs('Compose\_Flight\_or\_Hotel')), 'flight') |
| Subactions | [Set\_Flight\_variable](#Set_Flight_variable) |
| Elseactions | [Check\_if\_its\_Hotel](#Check_if_its_Hotel) |

### Get\_current\_weather

|  |  |
| --- | --- |
| **Name** | Get\_current\_weather |
| **Type** | ApiConnection |
| **Inputs** | |
| **host** | { "api": { "runtimeUrl": "https://flow-apim-europe-001-francecentral-01.azure-apim.net/apim/msnweather" }, "connection": { "name": "@parameters('$connections')['shared\_msnweather']['connectionId']" } } |
| **method** | get |
| **path** | /current/@{encodeURIComponent(items('Apply\_to\_each')?['Location'])} |
| **queries** | { "units": "Imperial" } |
| **authentication** | @parameters('$authentication') |
| **Value** | { "host": { "api": { "runtimeUrl": "https://flow-apim-europe-001-francecentral-01.azure-apim.net/apim/msnweather" }, "connection": { "name": "@parameters('$connections')['shared\_msnweather']['connectionId']" } }, "method": "get", "path": "/current/@{encodeURIComponent(items('Apply\_to\_each')?['Location'])}", "queries": { "units": "Imperial" }, "authentication": "@parameters('$authentication')" } |

### Set\_CalendarEvents\_variable

|  |  |
| --- | --- |
| **Name** | Set\_CalendarEvents\_variable |
| **Type** | SetVariable |
| **Inputs** | |
| **name** | CalendarEvents |
| **value** | { "Subject": "@{items('Apply\_to\_each')?['Subject']}", "StartTime": "@{formatDateTime(items('Apply\_to\_each')['Start'],'yyyy-MM-ddThh:mm:ss')}", "EndTime": "@{formatDateTime(items('Apply\_to\_each')['End'],'yyyy-MM-ddThh:mm:ss')}", "Location": "@{items('Apply\_to\_each')?['Location']}", "CurrentWeather": "", "Hotel": "@{variables('Hotel')}", "Flight": "@{variables('Flight')}" } |
| **Value** | { "name": "CalendarEvents", "value": { "Subject": "@{items('Apply\_to\_each')?['Subject']}", "StartTime": "@{formatDateTime(items('Apply\_to\_each')['Start'],'yyyy-MM-ddThh:mm:ss')}", "EndTime": "@{formatDateTime(items('Apply\_to\_each')['End'],'yyyy-MM-ddThh:mm:ss')}", "Location": "@{items('Apply\_to\_each')?['Location']}", "CurrentWeather": "", "Hotel": "@{variables('Hotel')}", "Flight": "@{variables('Flight')}" } } |

### Compose\_Weather

|  |  |
| --- | --- |
| **Name** | Compose\_Weather |
| **Type** | Compose |
| **Inputs** | |
| **Value** | Conditions: @{body('Get\_current\_weather')?['responses']?['weather']?['current']?['cap']}<br> Humidity: @{body('Get\_current\_weather')?['responses']?['weather']?['current']?['rh']}<br> Temperature: @{body('Get\_current\_weather')?['responses']?['weather']?['current']?['temp']} @{body('Get\_current\_weather')?['units']?['temperature']}<br> Wind Speed: @{body('Get\_current\_weather')?['responses']?['weather']?['current']?['windSpd']} @{body('Get\_current\_weather')?['units']?['speed']}<br> |

### Set\_CalendarEvents

|  |  |
| --- | --- |
| **Name** | Set\_CalendarEvents |
| **Type** | SetVariable |
| **Inputs** | |
| **name** | CalendarEvents |
| **value** | { "Subject": "@{items('Apply\_to\_each')?['Subject']}", "StartTime": "@{formatDateTime(items('Apply\_to\_each')['Start'],'yyyy-MM-ddThh:mm:ss')}", "EndTime": "@{formatDateTime(items('Apply\_to\_each')['End'],'yyyy-MM-ddThh:mm:ss')}", "Location": "@{items('Apply\_to\_each')?['Location']}", "CurrentWeather": "@{outputs('Compose\_Weather')}", "Hotel": "@{variables('Hotel')}", "Flight": "@{variables('Flight')}" } |
| **Value** | { "name": "CalendarEvents", "value": { "Subject": "@{items('Apply\_to\_each')?['Subject']}", "StartTime": "@{formatDateTime(items('Apply\_to\_each')['Start'],'yyyy-MM-ddThh:mm:ss')}", "EndTime": "@{formatDateTime(items('Apply\_to\_each')['End'],'yyyy-MM-ddThh:mm:ss')}", "Location": "@{items('Apply\_to\_each')?['Location']}", "CurrentWeather": "@{outputs('Compose\_Weather')}", "Hotel": "@{variables('Hotel')}", "Flight": "@{variables('Flight')}" } } |

### Append\_to\_array\_variable

|  |  |
| --- | --- |
| **Name** | Append\_to\_array\_variable |
| **Type** | AppendToArrayVariable |
| **Inputs** | |
| **name** | BodyToSend |
| **value** | @variables('CalendarEvents') |
| **Value** | { "name": "BodyToSend", "value": "@variables('CalendarEvents')" } |

### Append\_to\_CalendarEvents\_array\_variable

|  |  |
| --- | --- |
| **Name** | Append\_to\_CalendarEvents\_array\_variable |
| **Type** | AppendToArrayVariable |
| **Inputs** | |
| **name** | BodyToSend |
| **value** | @variables('CalendarEvents') |
| **Value** | { "name": "BodyToSend", "value": "@variables('CalendarEvents')" } |

### Set\_CalendarEvents\_Values

|  |  |
| --- | --- |
| **Name** | Set\_CalendarEvents\_Values |
| **Type** | SetVariable |
| **Inputs** | |
| **name** | CalendarEvents |
| **value** | { "Subject": "@{items('Apply\_to\_each')?['Subject']}", "StartTime": "@{formatDateTime(items('Apply\_to\_each')['Start'],'yyyy-MM-ddThh:mm:ss')}", "EndTime": "@{formatDateTime(items('Apply\_to\_each')['End'],'yyyy-MM-ddThh:mm:ss')}", "Location": "", "CurrentWeather": "", "Hotel": "@{variables('Hotel')}", "Flight": "@{variables('Flight')}" } |
| **Value** | { "name": "CalendarEvents", "value": { "Subject": "@{items('Apply\_to\_each')?['Subject']}", "StartTime": "@{formatDateTime(items('Apply\_to\_each')['Start'],'yyyy-MM-ddThh:mm:ss')}", "EndTime": "@{formatDateTime(items('Apply\_to\_each')['End'],'yyyy-MM-ddThh:mm:ss')}", "Location": "", "CurrentWeather": "", "Hotel": "@{variables('Hotel')}", "Flight": "@{variables('Flight')}" } } |

### Append\_to\_CalendarEvents\_array

|  |  |
| --- | --- |
| **Name** | Append\_to\_CalendarEvents\_array |
| **Type** | AppendToArrayVariable |
| **Inputs** | |
| **name** | BodyToSend |
| **value** | @variables('CalendarEvents') |
| **Value** | { "name": "BodyToSend", "value": "@variables('CalendarEvents')" } |

### Compose\_Flight\_or\_Hotel

|  |  |
| --- | --- |
| **Name** | Compose\_Flight\_or\_Hotel |
| **Type** | Compose |
| **Inputs** | |
| **Value** | @substring(items('Apply\_to\_each')?['Subject'],add(indexOf(items('Apply\_to\_each')?['Subject'],'-'),1),sub(sub(length(items('Apply\_to\_each')?['Subject']),indexOf(items('Apply\_to\_each')?['Subject'],'-')),1)) |

### Set\_Flight\_variable

|  |  |
| --- | --- |
| **Name** | Set\_Flight\_variable |
| **Type** | SetVariable |
| **Inputs** | |
| **name** | Flight |
| **value** | @{outputs('Compose\_Flight\_or\_Hotel')} |
| **Value** | { "name": "Flight", "value": "@{outputs('Compose\_Flight\_or\_Hotel')}" } |

### Check\_if\_its\_Hotel

|  |  |
| --- | --- |
| **Name** | Check\_if\_its\_Hotel |
| **Type** | If |
| **Expression** | @contains(toLower(outputs('Compose\_Flight\_or\_Hotel')), 'hotel') |
| Subactions | [Set\_Hotel\_variable](#Set_Hotel_variable) |

### Set\_Hotel\_variable

|  |  |
| --- | --- |
| **Name** | Set\_Hotel\_variable |
| **Type** | SetVariable |
| **Inputs** | |
| **name** | Hotel |
| **value** | @{outputs('Compose\_Flight\_or\_Hotel')} |
| **Value** | { "name": "Hotel", "value": "@{outputs('Compose\_Flight\_or\_Hotel')}" } |

### Empty\_Flight\_variable

|  |  |
| --- | --- |
| **Name** | Empty\_Flight\_variable |
| **Type** | SetVariable |
| **Inputs** | |
| **name** | Flight |
| **value** | @variables('Empty') |
| **Value** | { "name": "Flight", "value": "@variables('Empty')" } |

### Empty\_Hotel\_variable

|  |  |
| --- | --- |
| **Name** | Empty\_Hotel\_variable |
| **Type** | SetVariable |
| **Inputs** | |
| **name** | Hotel |
| **value** | @variables('Empty') |
| **Value** | { "name": "Hotel", "value": "@variables('Empty')" } |

### Initialize\_Flight\_variable

|  |  |
| --- | --- |
| **Name** | Initialize\_Flight\_variable |
| **Type** | InitializeVariable |
| **Inputs** | |
| **variables** | [ { "name": "Flight", "type": "String" } ] |
| **Value** | { "variables": [ { "name": "Flight", "type": "String" } ] } |

### Initialize\_Hotel\_variable

|  |  |
| --- | --- |
| **Name** | Initialize\_Hotel\_variable |
| **Type** | InitializeVariable |
| **Inputs** | |
| **variables** | [ { "name": "Hotel", "type": "String" } ] |
| **Value** | { "variables": [ { "name": "Hotel", "type": "String" } ] } |

### Check\_if\_any\_event\_found

|  |  |
| --- | --- |
| **Name** | Check\_if\_any\_event\_found |
| **Type** | If |
| **Expression** | @greater(length(variables('BodyToSend')), 0) |
| Subactions | [Create\_HTML\_table](#Create_HTML_table)  [Compose\_BodyToSend](#Compose_BodyToSend)  [Get\_my\_profile\_(V2)](#Get_my_profile_(V2))  [Send\_an\_email](#Send_an_email) |

### Create\_HTML\_table

|  |  |
| --- | --- |
| **Name** | Create\_HTML\_table |
| **Type** | Table |
| **Inputs** | |
| **from** | @variables('BodyToSend') |
| **format** | HTML |
| **Value** | { "from": "@variables('BodyToSend')", "format": "HTML" } |

### Compose\_BodyToSend

|  |  |
| --- | --- |
| **Name** | Compose\_BodyToSend |
| **Type** | Compose |
| **Inputs** | |
| **Value** | @replace(replace(body('Create\_HTML\_table'),'&lt;','<'),'&gt;','>') |

### Get\_my\_profile\_(V2)

|  |  |
| --- | --- |
| **Name** | Get\_my\_profile\_(V2) |
| **Type** | ApiConnection |
| **Inputs** | |
| **host** | { "api": { "runtimeUrl": "https://flow-apim-europe-001-northeurope-01.azure-apim.net/apim/office365users" }, "connection": { "name": "@parameters('$connections')['shared\_office365users']['connectionId']" } } |
| **method** | get |
| **path** | /codeless/v1.0/me |
| **queries** | { "$select": "Mail" } |
| **authentication** | @parameters('$authentication') |
| **Value** | { "host": { "api": { "runtimeUrl": "https://flow-apim-europe-001-northeurope-01.azure-apim.net/apim/office365users" }, "connection": { "name": "@parameters('$connections')['shared\_office365users']['connectionId']" } }, "method": "get", "path": "/codeless/v1.0/me", "queries": { "$select": "Mail" }, "authentication": "@parameters('$authentication')" } |

### Send\_an\_email

|  |  |
| --- | --- |
| **Name** | Send\_an\_email |
| **Type** | ApiConnection |
| **Inputs** | |
| **host** | { "api": { "runtimeUrl": "https://flow-apim-europe-001-northeurope-01.azure-apim.net/apim/office365" }, "connection": { "name": "@parameters('$connections')['shared\_office365']['connectionId']" } } |
| **method** | post |
| **body** | { "To": "@{body('Get\_my\_profile\_(V2)')?['mail']};", "Subject": "Office 365 Upcoming Calendar Events", "Body": "<html>\n<head>\n <style> \ntable, th {\n border:1px solid black; \ntext-align:left;\n width:14%;\n\n}\ntd {\n border:1px solid black;\n text-align:left;\n width:14%;\n}\n </style>\n</head>\n<body>\n\n<html>\n<head>\n <style> \ntable {\n font-family: \"Times New Roman\", Times, serif;\n border-collapse: collapse;\n width: 100%;\n}\ntd, th {\n border: 1px solid #ddd;\n padding: 4px;\n}\nth {\n padding-top: 8px;\n padding-bottom: 8px;\n text-align: left;\n background-color: #3399ff;\n color: white;\n}\n </style>\n</head>\n<body>\n@{outputs('Compose\_BodyToSend')}\n</body>\n</html>", "IsHtml": true } |
| **path** | /Mail |
| **authentication** | @parameters('$authentication') |
| **Value** | { "host": { "api": { "runtimeUrl": "https://flow-apim-europe-001-northeurope-01.azure-apim.net/apim/office365" }, "connection": { "name": "@parameters('$connections')['shared\_office365']['connectionId']" } }, "method": "post", "body": { "To": "@{body('Get\_my\_profile\_(V2)')?['mail']};", "Subject": "Office 365 Upcoming Calendar Events", "Body": "<html>\n<head>\n <style> \ntable, th {\n border:1px solid black; \ntext-align:left;\n width:14%;\n\n}\ntd {\n border:1px solid black;\n text-align:left;\n width:14%;\n}\n </style>\n</head>\n<body>\n\n<html>\n<head>\n <style> \ntable {\n font-family: \"Times New Roman\", Times, serif;\n border-collapse: collapse;\n width: 100%;\n}\ntd, th {\n border: 1px solid #ddd;\n padding: 4px;\n}\nth {\n padding-top: 8px;\n padding-bottom: 8px;\n text-align: left;\n background-color: #3399ff;\n color: white;\n}\n </style>\n</head>\n<body>\n@{outputs('Compose\_BodyToSend')}\n</body>\n</html>", "IsHtml": true }, "path": "/Mail", "authentication": "@parameters('$authentication')" } |

## Detailed Flow Diagram

The following chart shows the detailed layout of the Flow

