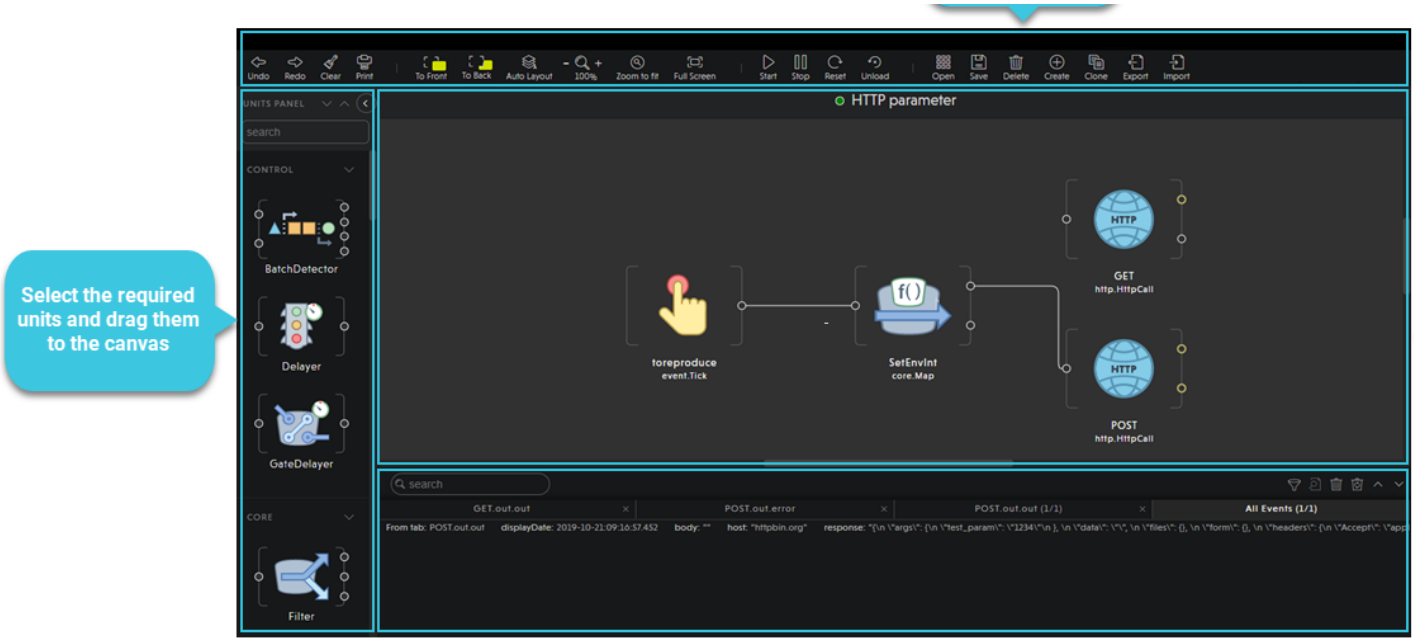
Use Devo Flow to Generate and Mail a Periodic Report

9 months ago • 6 replies



yul pertierra

Overview

Devo Flow is the Devo Platform's correlation engine. Flow automates data processing in real-time and speeds up investigations by defining complex workflows as soon as data arrives on the platform.

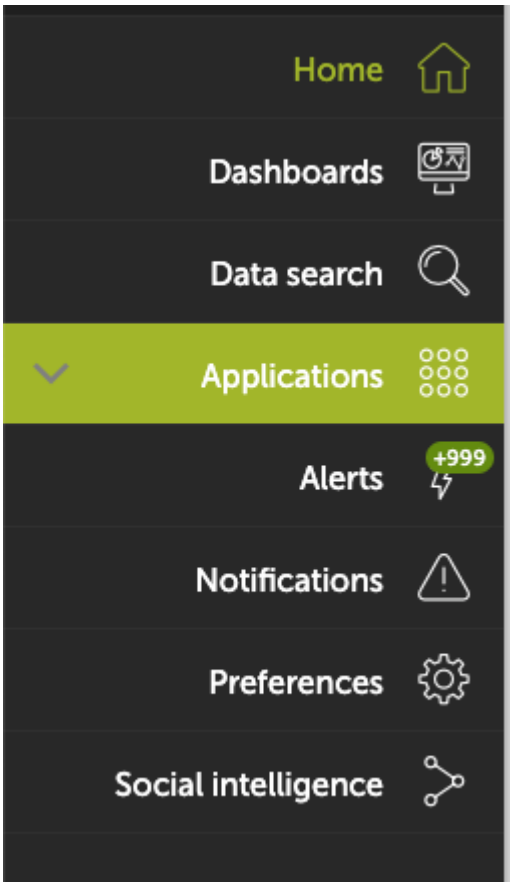
This article walks through a Flow use case, explaining how you can use Flow to receive a monthly report of a table by email. We will use an email that is sent on the first day of every month, showcasing data from the previous month.

To learn more about the basics of flow and other flow use cases, please reference this section of the Devo Documentation.

Creating and Configuring Flow Context

Accessing Flow

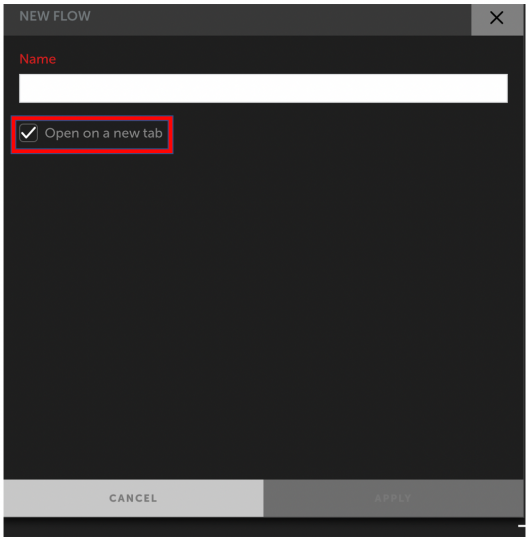
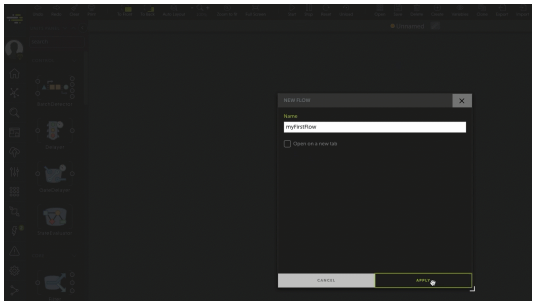
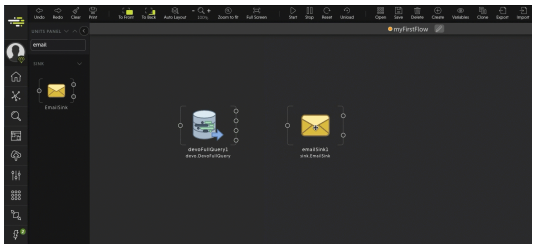
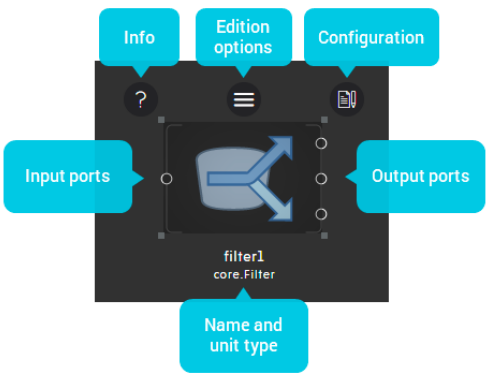
You can access Flow by clicking the **Flow Editor** option in the Devo application main panel.



> If you are unable to access flow, please check your role permissions.

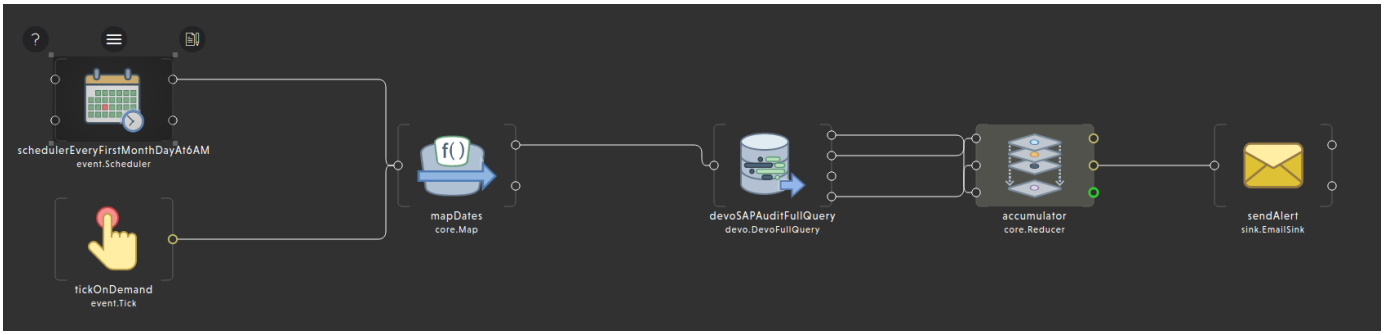
Creating a Flow

	Step	Screenshot / Illustration / Command Sample
1	After accessing the **Flow Editor** area, click the **Create** button in the toolbar.	

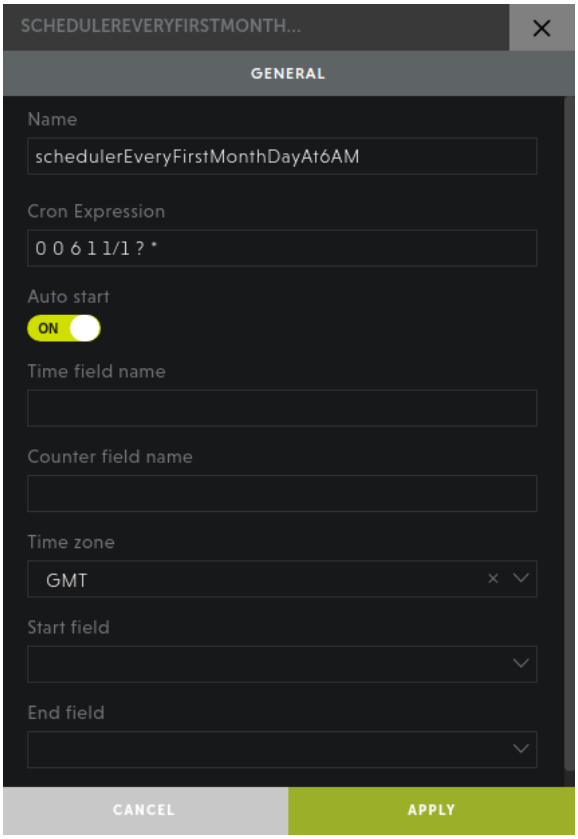
2	You can choose to create the Flow in a new tab, or disable the **Open in a new tab** tickbox to replace the current tab. Please note: the previous flow **will disappear if you did not save it** before opening in the current tab.	
3	Give the new flow a name, then select **Apply**. The name of your flow will appear at the top of the canvas, next to a color circle that indicates its current status. When you create a flow, its status is always *Scratch* (orange) until you first save it. Learn more about flow statuses.	
4	Now you can start adding the required units to the canvas. Search units in the left panel using the available search box or navigating through the different categories. Select the required units and drop them into the canvas.	
5	Click a unit on the canvas to see information about it, access its edition options to clone it, delete it, and more, or open the inspector to configure it. **Each unit has different configuration options** and requires different fields to be filled. Learn more about Flow units here.	

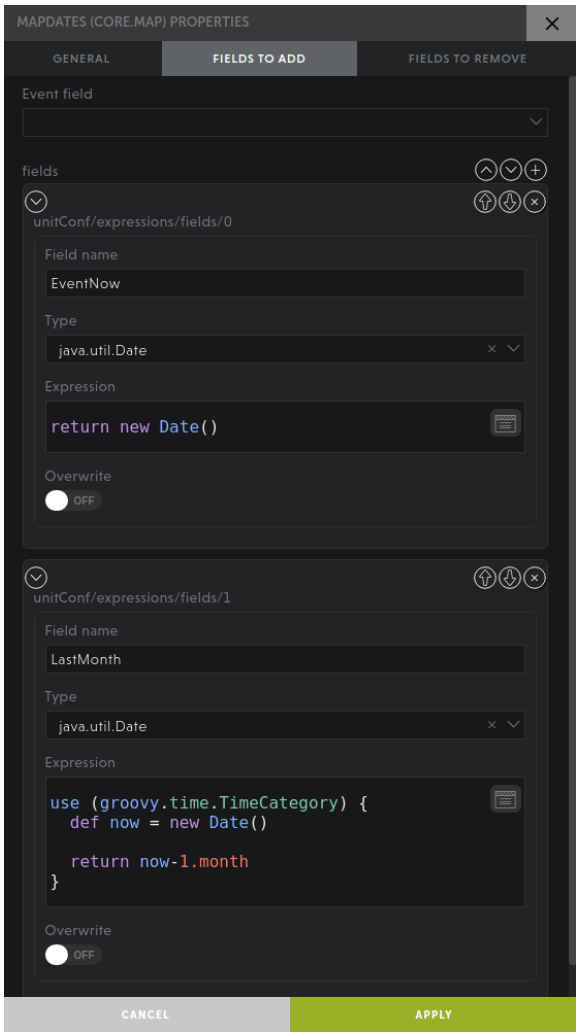
Creating a Context

The following image represents the context created for this use case:



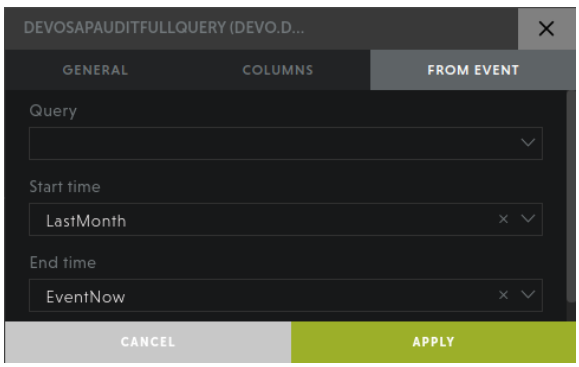
The following entities configure the context:

schedulerEveryFirstMonthDayAt6AM: scheduler unit that runs every first day of the month at 06:00 AM using the following Cron expression: `0 0 6 1 1/1 ? *`	
mapDates: map unit for time range requested in the query: • EventNow: current date. • LastMonth: current date minus 1 month.	



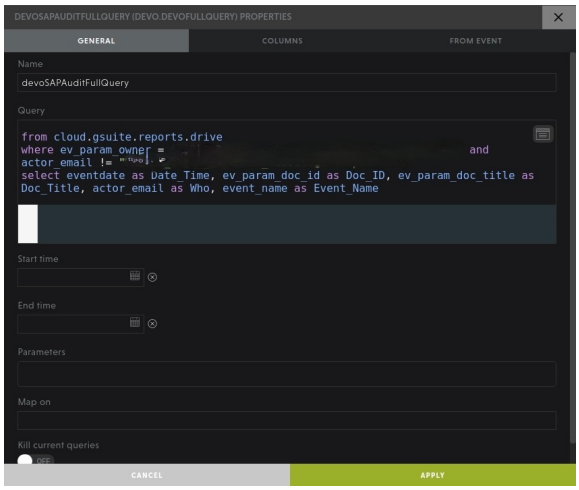
devoSAPAuditFullQuery: DevoFullQueryUnit performs the following query:

```
from cloud.gsuite.reports.drive
where ev_param_owner = "XXX@XXX.com"
and actor_email != "XXX@XXX.com"
select eventdate as Date_Time,
ev_param_doc_id as Doc_ID,
ev_param_doc_title as Doc_Title,
actor_email as Who, event_name as
Event_Name
```

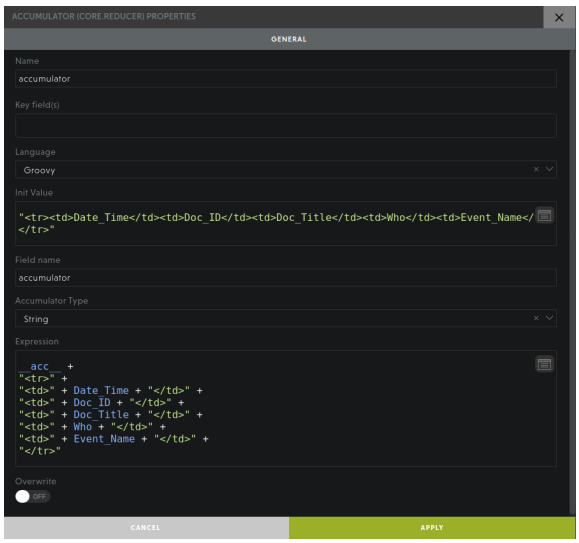


This query requests data from `cloud.gsuite.reports.drive` table for the last month, using the params defined in the mapDates unit (`EventNow` and `LastMonth`).

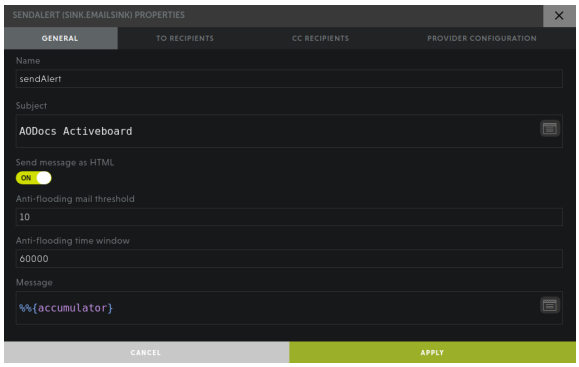
That is the final result of the component with the query:

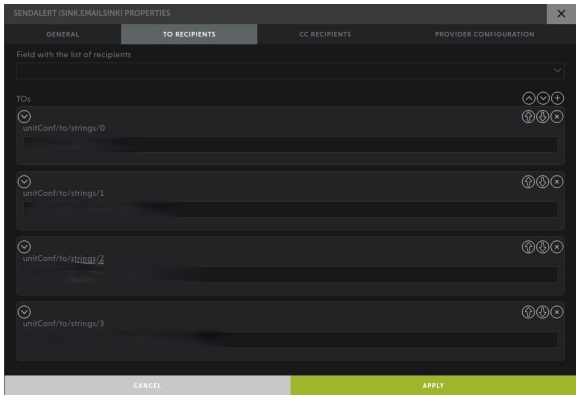


accumulator: this units gets all the events returned by the query and generates a new `accumulator` variable with the whole result in HTML table row details formatted. When the query unit stars running and events is sent to `reset` input port to clear any previous result. All the query events are sent to accumulator `in` input port. Once the query is finished, and event is sent to the accumulator `get` input port. This event generates and output event in the accumulator `current` output port with the final result:

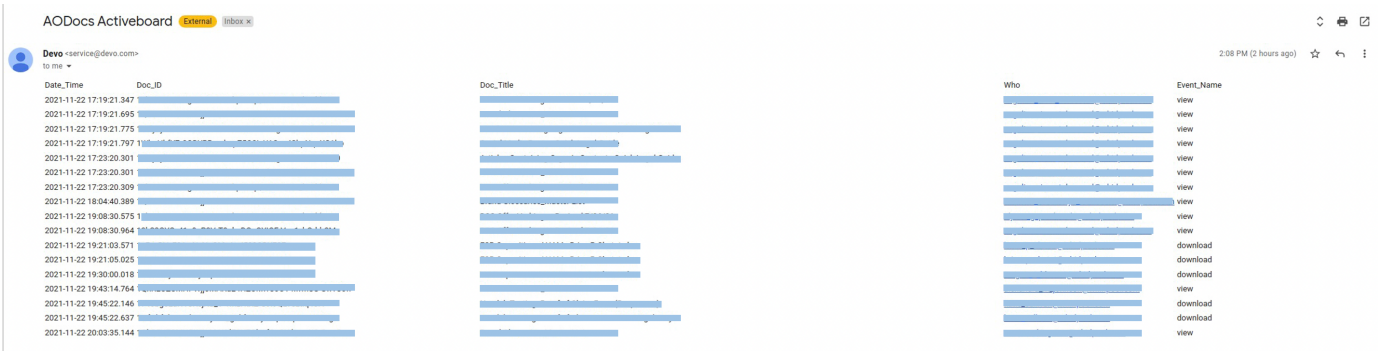


sendAlert: this unit receives the information from the accumulator unit and sends it by e-mail in HTML format:



The list of e-mail recipients is configured here:	

Email Alert Notification Example



Flow AdvKnowledge

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aashishadhh 4 months ago

Does it support sending a file attachment yet?