

Get better (and actionable)
alerts from your orchestration
pipelines

DATA:Scotland
2024



Tabular Editor

bridgeall



DATAmasterminds

 Waterstones



ADVANCING
ANALYTICS






 quorum

 hippo



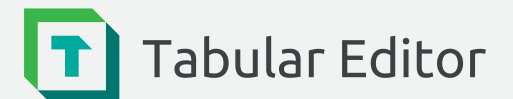
Tabular Editor

Agenda


-  Short introduction
-  Current state for alerts with Data Factory
-  Building something better with Azure Function + Mail
-  Taking it even further with Actionable Messages
-  How to build this yourself

About me

-  In IT since 2003
-  Data professional since 2007
 - » Background in retail, web/integration development
-  Architect @ Tabular Editor
-  Lead Architect @ Tabular Tools
-  Part of the community since 2013
 -  Co-organizer of Data Platform Next Step



Current state for alerts with Data Factory

 Microsoft Azure

Fired:Sev3 Azure Monitor Alert Email demo mailbox on orchestrationpipelinesalertsadf (microsoft.datafactory/factories) at 9/12/2024 1:09:28 PM

[View the alert in Azure Monitor >](#) [Investigate >](#)

Summary

Alert name	Email demo mailbox
Severity	Sev3
Monitor condition	Fired
Affected resource	orchestrationpipelinesalertsadf
Resource type	microsoft.datafactory/factories
Resource group	orchestrationpipelinesalerts
Monitoring service	Platform
Signal type	Metric
Fired time	September 12, 2024 13:09 UTC
Alert ID	727322be-3ffc-44c7-b0d1-a3e5939ef000
Alert rule ID	https://portal.azure.com/#resource/subscriptions/ed1a0503-008f-4901-a394-3e76ae9cd77d/resourceGroups/O rchestrationPipelinesAlerts/providers/microsoft.insights/metricAlerts/Email demo mailbox

Metric alert condition type	SingleResourceMultipleMetricCriteria
Time aggregation	Total
Metric name	PipelineFailedRuns
Metric namespace	Microsoft.DataFactory/factories
Metric value	1
Operator	GreaterThan
Threshold	0

Demo



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Building something better with Functions + Mail



Tabular Editor

plSometimesFails - 2 error(s) occurred

Data Factory Instance: orchestrationpipelinesalertsadf (Development)
Pipeline Run id: [43a238b2-72f6-4ab2-86c3-4d57ba4fbf44 \(click to open\)](#)
Pipeline started: 2024-09-12 13.06.48
Pipeline finished: 2024-09-12 13.06.51

Activity Name:	If should fail	Activity Type:	IfCondition
Activity started:	2024-09-12 13.06.50	Activity finished:	2024-09-12 13.06.51

Input []

Error: Activity failed because an inner activity failed

Activity Name:	Fail1	Activity Type:	Fail
Activity started:	2024-09-12 13.06.50	Activity finished:	2024-09-12 13.06.50

Input []

Error: Should fail var is true




Tabular Editor

Demo



Tabular Editor

Taking it even further with Actionable Messages

 Pipeline failed (Development)

plSometimesFails - 2 error(s) occurred
An error has occurred while executing an Orchestration pipeline.
Please choose how to process this error

Data Factory Instance: orchestrationpipelinesalertsadf (Development)
Pipeline Run id: [43a238b2-72f6-4ab2-86c3-4d57ba4fbf44 \(click to open\)](#)
Pipeline started: 2024-09-12 13.06.48
Pipeline finished: 2024-09-12 13.06.51

Activity Name: If should fail	Activity started: 2024-09-12 13.06.50
Activity Type: IfCondition	Activity finished: 2024-09-12 13.06.51

Input []
Error: **Activity failed because an inner activity failed**


Activity Name: Fail1	Activity started: 2024-09-12 13.06.50
Activity Type: Fail	Activity finished: 2024-09-12 13.06.50

Input []
Error: **Should fail var is true**

Rerun failed pipeline

Escalate to BI Ops

Create task in Azure DevOps

 Pipeline failed (Development)

plSometimesFails - 2 error(s) occurred
An error has occurred while executing an Orchestration pipeline.
Please choose how to process this error

Data Factory Instance: orchestrationpipelinesalertsadf (Development)
Pipeline Run id: [43a238b2-72f6-4ab2-86c3-4d57ba4fbf44 \(click to open\)](#)
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Activity Type: IfCondition	Activity finished: 2024-09-12 13:06:51

Error: **Activity failed because an inner activity failed**

Activity Name: Fail1	Activity started: 2024-09-12 13:06:50
Activity Type: Fail	Activity finished: 2024-09-12 13:06:50

Error: **Should fail var is true**

Rerun Failed Pipeline

2 More Actions

Demo



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Ressources

Actionable Messages (Adaptive Cards)

- » [Get started with actionable messages via email - Outlook Developer | Microsoft Learn](#)
- » [Actionable messages via email developer dashboard guide - Outlook Developer | Microsoft Learn](#)
- » [Refresh an actionable message on open - Outlook Developer | Microsoft Learn](#)

Sending e-mails through Microsoft Graph

- » [Limiting application permissions to specific Exchange Online mailboxes - Microsoft Graph | Microsoft Learn](#)

How to build this yourself

 <https://github.com/DBojsen/SessionMaterial>

Q & A



Session Feedback



Event Feedback