Set up alerts for Azure Data Factory

Note:

You are not required to complete the processes, tasks, activities, or steps presented in this example. The various samples provided are for illustrative purposes only and it's likely that if you try this out you will encounter issues in your system.
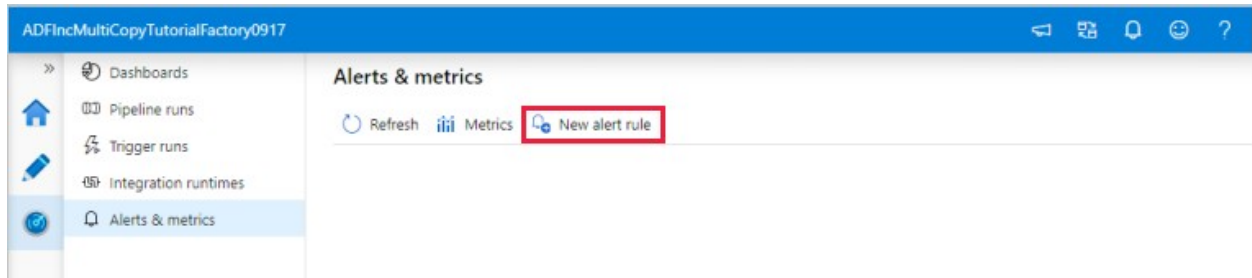
In Azure Data Factory, you can raise alerts based upon metrics outputted by the monitoring service. Alerts allow you to get alerted for a variety of scenarios such as, but not limited to, failed pipelines, large factory sizes, and integration runtime CPU utilization.

Alerts in the monitoring experience are based upon high-level metrics such as pipeline failures. For custom alerting on specific conditions that may occur within a pipeline or based upon data quality, it is recommended to configure these using a pipeline activity.

To get started, go to the Monitor tab and select Alerts & metrics.

Create an alert

1. Select **New alert rule** to create a new alert.

New Alert Rule button

2. Specify the rule name and select the alert severity.

Boxes for rule name and severity

3. Select the alert criteria

Alerts & metrics

○ Refresh   ⅲ Metrics   New alert rule

New alert rule

Alert rule name *

AlertFailPipelines

Description

Severity *

Sev1 ▽

Target criteria * ⓘ

＋ Add criteria

ⓘ There will be a monthly rate for the configured criteria. Learn more about *Pricing*

Configure Email/SMS/Push/Voice notification * ⓘ

＋ Configure notification

Enable rule upon creation

🔵 On

Create alert rule   Cancel

Box for target criteria

Add criteria

Select one metric to set up the alert condition.

METRICS ↑↓

Canceled SSIS integration runtime start metrics
Canceled SSIS package execution metrics
Cancelled activity runs metrics
Cancelled pipeline runs metrics
Cancelled trigger runs metrics
Failed activity runs metrics
Failed pipeline runs metrics
Failed SSIS integration runtime start metrics
Failed SSIS package execution metrics
Failed trigger runs metrics
Integration runtime available memory
Integration runtime available node count
Integration runtime CPU utilization

Continue   Cancel

Screenshot that shows where you select one metric to set up the alert condition.

Add criteria

Select one metric to set up the alert condition.

METRICS ↑↓

Integration runtime queue duration
Integration runtime queue length
Maximum allowed entities count
Maximum allowed factory size (GB unit)
Stuck SSIS integration runtime stop metrics
Succeeded activity runs metrics
Succeeded pipeline runs metrics
Succeeded SSIS integration runtime start metrics
Succeeded SSIS integration runtime stop metrics
Succeeded SSIS package execution metrics
Succeeded trigger runs metrics
Total entities count
Total factory size (GB unit)

Continue   Cancel

List of criteria

You can create alerts on various metrics, including Azure Data Factory entity count/size, activity/pipeline/trigger runs, Integration Runtime (IR) CPU utilization/memory/node count/queue, as well as for SSIS package executions and SSIS IR start/stop operations. 4. Configure the alert logic. You can create an alert for the selected metric for all pipelines and corresponding activities. You can also select a particular activity type, activity name, pipeline name, or failure type.

5. Configure email, SMS, push, and voice notifications for the alert. Create an action group, or choose an existing one, for the alert notifications.

Configure notification

Notify your team via email and text messages or automate actions using webhooks, runbooks, functions logic apps or integrating with external ITSM solutions.

● Create new   ○ Use existing

Action group name *

AlertActionGroup

Short name *

AAGroup

Notifications *

+ Add notification

Add action group   Cancel

Options for configuring notifications

Options for adding a notification

6. Create the alert rule.

New alert rule

Alert rule name *

AlertFailPipelines

Description

Severity *

Sev1

TARGET CRITERIA	ACTIONS
Whenever Activity Failed Runs metric is Greater Than to 0	✏️ 🗑️

+ Add criteria

ⓘ *There will be a monthly rate for the configured criteria. Learn more about* *Pricing*

NOTIFICATIONS	ACTION GROUP TYPE	ACTIONS
AlertActionGroup	1 Email,1 SMS,1 Voice	🗑️

+ Configure notification

Enable rule upon creation

🔵 On

Create alert rule   Cancel

Options for creating an alert rule

Once you create an alert, you will get notified if the metric conditions are met.

If you have integrated your data factory with Log Analytics, you can use Azure Monitor to send alerts as well.