

Use Logic App with Azure Data Factory

To create email notifications in the Azure Data Factory, you would need to create a separate Logic App as your transport layer for emails and ADF web activity to call this Logic App when it's needed.

Logic App

Create a Logic App



Logic app designer to edit the app



trigger: "When a HTTP request is received"

(as we're going to use the Web Activity in ADF to start the Logic App)



Action: Send Email

```
{
  "properties": {
    "DataFactoryName": {
      "type": "string"
    },
    "EmailTo": {
      "type": "string"
    },
    "ErrorMessage": {
      "type": "string"
    },
    "PipelineName": {
      "type": "string"
    },
    "Subject": {
      "type": "string"
    }
  },
  "type": "object"
}
```

We are going to send following information in error message.
(Name of the data factory, e-mail address of the receiver, An error message, name of the pipeline, subject of the e-mail)

When a HTTP request is received

Send an email

* Body

DataFactory Name: DataFactoryName x

Pipeline: PipelineName x

Error: ErrorMessage x

* Subject

Subject x

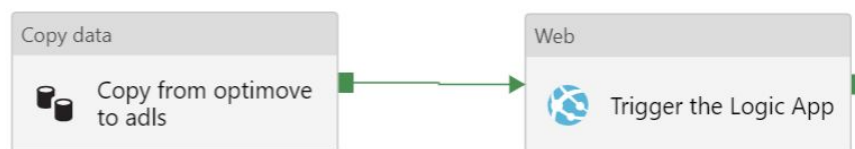
* To

EmailTo x

Add new parameter

Connected to outlook_B3DACE9D8264842F@outlook.com. [Change connection.](#)

In the azure data factory, we would need to create a web activity that would trigger the Logic app on a successful pipeline run.



WEB Settings

URL *

Method *

Headers [+ New](#)

Body

```

{
  "DataFactoryName":
"@{pipeline().DataFactory}",
  "PipelineName": "@{pipeline().Pipeline}",
  "Subject": "Success!",
  "ErrorMessage": "The ADF pipeline is
successfully created! Please check the logs.",
  "EmailTo": "nirali.patel@staples.com"
}
  
```

<https://docs.microsoft.com/en-us/azure/data-factory/tutorial-control-flow-portal>

<https://www.youtube.com/watch?v=oWclm7HClAc>

<https://www.mssqltips.com/sqlservertip/5718/azure-data-factory-pipeline-email-notification--part-1/>

<https://www.mssqltips.com/sqlservertip/5962/send-notifications-from-an-azure-data-factory-pipeline--part-2/>

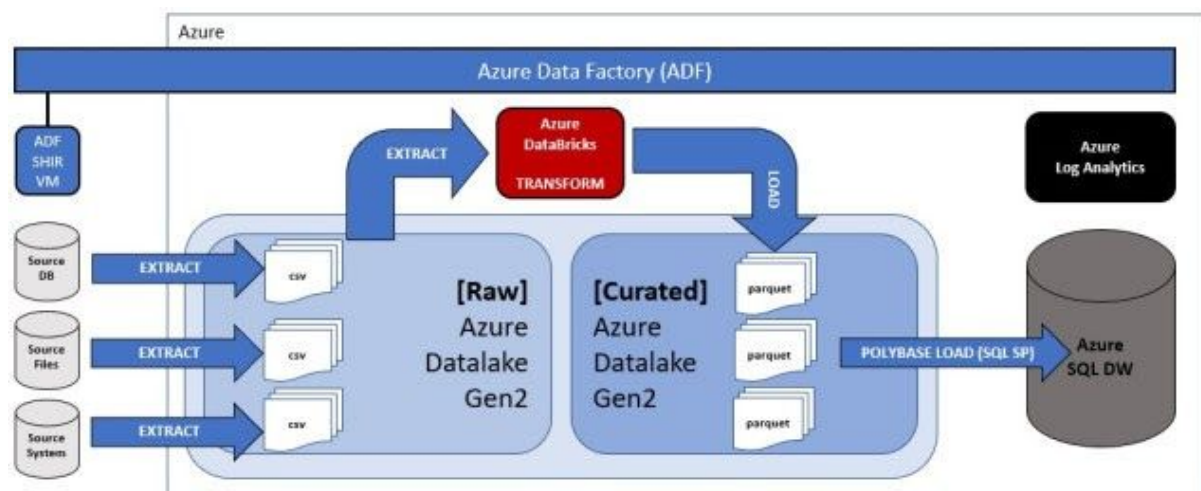
<http://microsoft-bitools.blogspot.com/2018/03/add-email-notification-in-azure-data.html>

<https://channel9.msdn.com/Shows/Azure-Friday/Monitor-your-Azure-Data-Factory-pipelines-proactively-with-alerts>

<https://azure.microsoft.com/en-us/blog/create-alerts-to-proactively-monitor-your-data-factory-pipelines/>

<https://docs.microsoft.com/en-us/azure/logic-apps/quickstart-create-first-logic-app-workflow>

Use Azure Monitor with Azure Data Factory



For log analytics, you would need to store your ADF logs into Azure SQL Analytics first. Once we have it, we can query it using Azure log Analytics(which is a part of Azure Monitor). Next, we need to create an alert rule and we need to configure an Action Group to send an e-mail notification.

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-metrics-diag-logging>

<https://docs.microsoft.com/en-us/azure/azure-monitor/learn/tutorial-response>

<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/get-started-portal>

<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/get-started-queries>

<https://www.sqlservercentral.com/blogs/azure-service-logging-in-the-modern-data-warehouse>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-analytics-logging>

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostic-settings>

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/resource-logs-collect-workspace>

<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/query-language>

<https://docs.microsoft.com/en-us/azure/kusto/query/sqlcheatsheet>

<https://medium.com/@shashank.banerjea/useful-azure-data-explorer-queries-for-azure-data-factory-pipelines-60253f398c8b>

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/activity-log-view>

<https://docs.microsoft.com/en-us/azure/azure-monitor/log-query/query-language>

<https://docs.microsoft.com/en-us/azure/data-factory/monitor-visually#alerts>

<https://docs.microsoft.com/en-us/azure/data-factory/quickstart-create-data-factory-python>

<https://docs.microsoft.com/en-us/azure/data-factory/monitor-programmatically>

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/activity-log-collect> → this is how you would collect log data.