Multiple Activity failure dependency doesn't work as expected

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Issue

- Even though an activity fails, pipeline succeeded.
- One activity should run if two other previous activity failed, however it never run.

Resolution

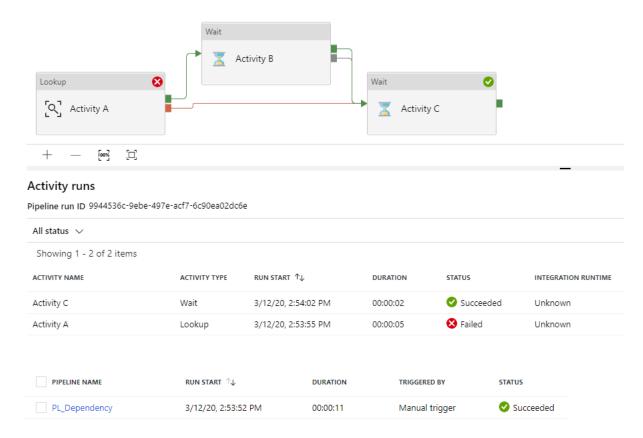
By Design Activity Dependency defines how subsequent activities depend on previous activities, determining the condition whether to continue executing the next task. An activity can depend on one or multiple previous activities with different dependency conditions.

The different dependency conditions are:

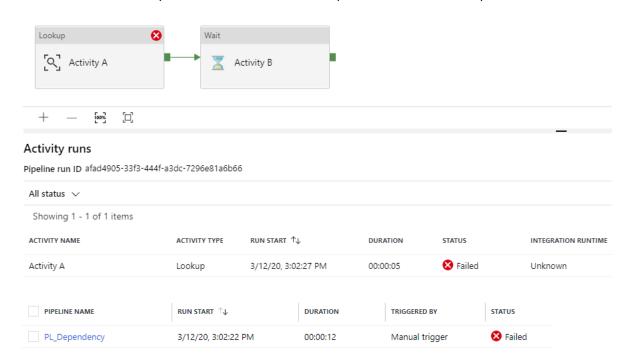
- Succeeded
- Failed
- Skipped
- Completed

Scenario 1: Pipeline succeeded even when a Activity fails

If the failure is handled by a closed cycle, it is supposed the pipeline was designed to handle that failure and required action was done and everything was finished successfully. If Activity A fails, there is a failure path defined that end up in a successful path cycle.



If there is not failure path to handle the error, Pipeline will failed as expected.

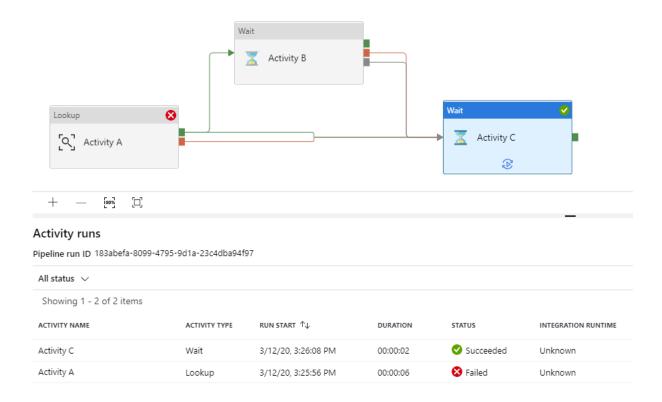


Scenario 2: Multiple failure dependencies do not work as expected

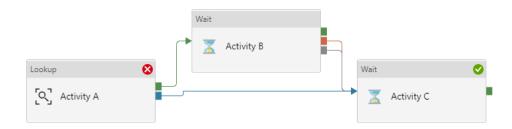
Multiple dependencies from different Activities will be "AND" operator for receiving Activity. In the following example Activity C will never run because it is impossible both Activity A and Activity B fail.



All dependencies coming into one Activity from different Activities are "AND" operators, on the other hand all dependencies coming into one Activity from same Activity are "OR" operators. In the following example Activity C will run if Activity A or Activity B fail. Which is the same of: (Activity A Succeed or Fail) and (Activity B Fail or Skip).



(Activity A Succeed or Fail) can be replaced by Complete, it will be same result.



Suggested Reading: Please refer to this article for further details on understanding pipeline failures and Error Handling:

 Understanding Pipeline Failures and Error Handling https://supportability.visualstudio.com/AzureDataFactory/ wiki/wikis/AzureDataFactory/380904/Understan ding-Pipeline-Failures-and-Error-Handling

Additional Information:

• Icm References: 176001371, 176681774, 176500110

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• Keywords: Dependency, Pipeline, Activity

How good have you found this content?

