Pipeline works in a debug run but not in a trigger run

Last updated by | Vimal Sharma | Apr 19, 2022 at 7:51 AM PDT

NOTE: This is a general information for CSS understanding only, please don't copy-paste the same to the customer. Rather you can leverage this concept when you're working with a customer on an issue, where the customer is noticing the difference between the debug run and a trigger run execution.

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Issue

Customer had a question on why the pipeline works fine when they do a debug run but not a trigger run.

Explanation

There are two separate concepts here. The first is a debug run and the second is a triggered run. There are some subtle but important differences for these two types of runs.

Debug runs are meant to help users while they are designing and building their pipelines. As a result, a debug run will take the state of the pipeline that exists in the UI, send that to our backend service, and run that pipeline.

On the other hand, a trigger run will take the state of the pipeline that is already saved and published in ADF and run that pipeline resource.

In this **Icm** ⬈ customer was noticing an error with an array variable. So, PG has tried to explain this further below.

So for your specific instance, when you are deploying your pipeline to ADF, this immediately saved and publishes this pipeline within the ADF service. So if you perform a trigger run on this pipeline, you will run into this array error due to the escaped literal characters in the array.

However, if you deploy your pipeline to ADF and then go to the UI, the UI will actually clean up your malformed array object, so when you do a debug run, it will use this cleaned up version of the array/pipeline in order to do the debug run. This is why if you make any change to the pipeline and then republish the pipeline, this will fix the issue for trigger runs. Because the UI has already cleaned up the array, and now you are saving/publishing this cleaned up pipeline resource to our service, which fixes the issue that you are seeing.

In such cases, ask customer to make a small change in the pipeline (like adding something in the description) and re-publish the changes to the data factory. Once done, try running the trigger run again.

If the trigger runs are still failing, collect the pipeline support files and runIds - Debug and trigger run, and engage an SME/EEE for further inputs.

Additional Information:

- **Icm References:** [Icm Link](#) ⧉
- **Author:** vimals
- **Reviewer:** vimals
- **Keywords:**

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