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Automated workload transformation from Control-M to Amazon MWAA

VIDEO TRANSCRIPT

Are you looking to modernize workloads from Control-M to Amazon MWAA to optimize the performance of your orchestration workflows, but worried about business disruption?

Enterprises are transforming their Control-M workloads to Amazon Managed Workflows for Apache Airflow (MWAA) to reduce costs while optimizing automated scaling, monitoring, logging, and security features.

LeapLogic, Impetus' automated cloud migration accelerator, can help you achieve this by ensuring a smooth, risk-free modernization journey.

Here is a demo of how LeapLogic simplifies migrating Control-M workloads to Amazon MWAA from comprehensive assessment to automated transformation, validation, and operationalization.

LeapLogic first assesses the existing inventory, providing valuable data-driven insights.

This includes a summary of the Control-M jobs along with their complexity. 25 workflows.

Under the Analysis tab, the Orchestration Details page provides a comprehensive summary of the jobs including its availability status, applications, and more.

Now, let's see an integrated assessment which identifies interdependencies between DML scripts, DDL scripts, Control-M Orchestration jobs, procedural scripts, and more.

Under the Lineage tab, you can see all interdependencies between various kinds of workloads, along with end-to-end data and process lineage.

You can also download reports that provide actionable insights from here.

In this detailed report, you can view all relevant information regarding Control-M jobs, including assessment ID, version, scheduler, application, and more.

You can also choose to download other reports to gain additional prescriptive insights.

Next, let's look at the Control-M to Amazon MWAA conversion pipeline. LeapLogic's

transformation pipeline converts all Control-M jobs to the Amazon MWAA-equivalent seamlessly.

Under the Output tab, you can view that all Control-M jobs along with their business logic are transformed to Amazon MWAA equivalent DAGs.

In this section, you can view the Amazon MWAA-equivalent output.

From here, you can download the converted artifacts that contain the Amazon MWAA-equivalent DAGs.

Next, let's log into the AWS portal, initiate the Amazon Managed Workflows for Apache Airflow service, and import the converted Python code.

Here you can view all supported Amazon MWAA environments. Simply click on the environment name to get the relevant details, such as its status, Airflow UI, ARN, and more.

The Amazon S3 bucket is used to store DAGs and supporting files. To run the converted artifacts in Amazon MWAA, you need to add them to the DAGs folder in your S3 storage bucket.

Here, you can see the DAGs folder and associated S3 bucket details.

Click on the S3 bucket name to upload the converted artifacts.

Select the path and the DAG folder you wish to upload the converted artifact. Click on upload, choose the relevant files, and click on open. Check all the details and click on upload.

Now, let us open the Airflow UI.

Here, you can see that DAGs have been successfully created in the environment. Amazon MWAA automatically syncs the latest artifacts from the Amazon S3 bucket, which will update relevant DAGs.

Here you can view the DAG Summary. Under the Graph section, you can visualize the workflow of the converted artifacts. Each node represents a task, and the edges indicate the dependencies between tasks.

Click here to trigger the DAG. As you can see, all tasks are executed successfully. That's it!

Explore LeapLogic's automation capabilities for the end-to-end transformation of data warehouse ETL Hadoop analytics and reporting systems to cloud-native stacks – faster, at a lower cost, and with minimal risk.

It's more than the next step. It's a leap into the future of your business.