When Doyensys Resolved a Challenging Issue for Successful OCI Migration for a Global Engineering Company

There are a few customers who will always be special for Doyensys. They trusted us with their business when we were starting out. They played a crucial role in building our confidence and encouraging us to establish ourselves.

One such customer presented a unique problem statement to Doyensys. They wanted to migrate their EBS and databases from on-premise to OCI IAAS servers. However, they faced a problem that set them back on the project.

About the Client:

The client of Doyensys is a leader in process efficiency and energy conservation for process industry. With experience of over seven decades, they have brought to the industry several unique and innovative products and services that solve real problems. They deliver from five benchmark manufacturing facilities, including one in the UK. They have also partnered with technology leaders and pioneers in Belgium, Germany and Japan.

Problem Statement:

During the initial iterations of the EBS/Database migration, there was a corruption found in the FND_LOBS table that was causing a major problem in this migration project.

OC team had identified these corruption issues as a major bottleneck. They had advised the customer against proceeding with the migration without fixing this in the on-premise. Due to this issue, they had to put the OCI migration project on hold for a short time.

Project Objective:

The customer wanted to fix the corruption issue in the FND_LOBS table for a successful OCI migration.

Problem Solution:

The team at Doyensys was successful in identifying the corrupted records in the FND_LOBS table. They removed these records from the table and also advised them to export/truncate/import the FND_LOBS table as a permanent solution.

Challenges:

The FND_LOBS table was huge (1.5 TB), and the time required to perform the expdp/impdp operation was also very high (around 72 hours).
72 hours of downtime was impossible for the business, and it wasn't something that the customer could afford.

Solution:

Since performing an authentic expdp/impdp of the table was time-consuming and the PARALLEL parameter could be used for FND_LOBS table, we proposed splitting the expdp/impdp operation into ten small tasks. By doing so, we could divide the records of the FND_LOBS table into ten smaller chunks using the parameter QUERY.

It is an atypical method that is rarely used, and as a result, the supporting documents are hard to find. However, the team at Doyensys could pull it off for a major seeded table like FND_LOBS.

Impact:

Apart from doing something that was touted as impossible, Doyensys was also able to finish the project in 40 hours against the given timeline of 72 hours.

In Conclusion:

The project is an example that shows the commitment of Doyens to go beyond their call of duty and implementing a challenging solution.

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