

Oracle Database Migration from On-Premise to AWS RDS

BUSINESS CHALLENGES

- A major non-Profit Foundation, wanted us to migrate from their current On-Premise Oracle Database to AWS RDS
- The Oracle Database comprised of multiple schemas and multiple Environments
- As AWS RDS only allows schema level migration, with multiple schemas and environments it makes it very time consuming and cumbersome
- Limited availability of Database Administrators (DBA) Time
- Tight timelines to do end to end migration



BUSINESS SOLUTION

Aware of the challenges regarding the data migration, Princeton IT Services was brought in.

- The team analyzed the overall migration process; tested availability, connectivity, and access for all the servers, and source/target databases.
- With migrating to AWS RDS, it needed schema level export which involves a lot of manual procedures and hence this process had to be automated
- The team came up with proper plan and test cases to automate end to end migration thus eliminating the traditional manual process involved
- As a solution, Princeton IT services implemented their one click automation tool
- Created high volume of data and transactions that was a replica of the Production transactions
- Performed multiple Dry runs to test end to end process
- We had a proper fall back plan in place to switch back with no data loss
- We automated the migration process which eliminated the manual steps and human errors

RESULTS / BENEFITS

- Successful Migration
- With our one-click automation tool, it allows to reuse/repeat the Process
- Eliminated human errors and manual process
- Saves lot time and cost with this reusable solution
- The tool provides the visibility to the client about the failures that incurred during the migration process
- Client measured the performance comparing the On-Premise and the new migrated Database
- Achieve confidence in accuracy of data migration
- Once the migration and conversion processes were completed and tested by the customer, the customer was assured that their new system faced none of the hurdles, delays, data loss
- Princeton Database Engineers have already migrated over 600+ databases using zero-downtime approach and has excellent expertise handling migrations of very large Database Systems.