

# Data Warehouse Migration from Oracle to Amazon Redshift

Veracode – Enterprise Application Security Testing Platform

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## BUSINESS PROBLEM

Veracode had a large and complex on-premises Oracle analysis and reporting system that it had developed over the years. Reports were generally taking far too long to complete. In particular, their large data extracts would run for 50 hours or more, requiring them to be run starting Friday evenings in hopes that they would complete by Monday morning.



## PROJECT OVERVIEW

Veracode decided to migrate this analysis and reporting system to the Amazon Web Services (AWS) cloud to take advantage, in particular, of the following services:

- **Redshift** as their new Data Warehouse environment
- **Aurora** as their new Staging Area
- **Database Migration Services (DMS)** as their primary ETL tool

GreenPages' expertise with both the legacy Oracle environment and with all of the AWS services listed above was critical to the successful completion of this engagement.



## SERVICE IMPACT

- Data extracts that took **50-60 hours to complete on Oracle**, run in **15 minutes on Redshift** (a 200X improvement)
- The average run time of the 38 reports that were migrated dropped from **60 minutes on Oracle** to **45 seconds on Redshift** (an 80X improvement)



## RISK IMPACT

With their data stored on the AWS cloud, Veracode could take advantage of AWS's built-in availability, redundancy, fault tolerance and scalability, which would have been cost-prohibitive to provide with their on-premises environment.



## COST IMPACT

By decommissioning the on-premises Oracle environment that previously hosted their analysis and reporting system, Veracode realized significant cost savings.