Oracle Database Upgrades & Migrations

End-to-end Oracle Database Upgrade and Migration Support Services

Oracle Database Upgrades and Migrations can be a complex and daunting task. At ennVee, we have taken it up to a proven and tested methodology support service that is broken down into three key phases; Assessment, Planning, and Execution. Each phase is detailed with specific tasks and deliverables that are produced, completed, and customized to meet each client's specific needs. ennVee also offers support throughout the entire project, from initiation to close out, with end-to-end governance by our seasoned Oracle Managers.

Our Process

Step 1: Assessment

1. Identify the current state and taking inventory of the current Oracle Database environment.
2. Capture necessary information: current version, edition, architecture, etc.
   - Detail any advanced technologies in use like Oracle Grid and Oracle Real Application Clusters (RAC), Automatic Storage Management, ASM, etc.
   - Identify platform, hardware, virtualization, operating system, storage, etc.
   - Identify the current Backup process and tools utilized, Disaster Recovery, DR, and solution, if one exists.
   - Review options and additional features that are enabled and in use, and all dependent systems on the current Oracle Database.
   - Identify whether the latest, quarterly Oracle Security patches are applied.
3. Discuss project expectations with the client.
   - Upgrade and migration effort
   - Project timeframe
   - Foreseen road blocks
   - All related parties that will be affected by the project.
   - Pain points with the current Oracle Database, on-going issues, etc.

The Assessment concludes with a detailed deliverable based on the information gathered about the client's environment.

Step 2: Planning

1. The future state is identified.
2. Certification and support is confirmed from Oracle Support and other product vendors that are dependent on the database upgrade.
3. The upgrade path is identified and customized based on specific criteria to ensure that it is certified and supported by Oracle. This also includes applying the latest available, Oracle released Security patches. Specific criteria includes:
   - Client-specific requirements.
   - Platform migration or upgrade, Operating System, and environment architecture.
4. The project plan is formed through joint collaboration between ennVee and the client.
   - Include multiple iterations, client testing, and adhere to any client-specific requirements.
   - Frame each identified iteration with making available to be the latest Production data, and also a production-like environment.

Step 3: Execution

- Execution is documented for each iteration.
- Technical documentation is built using the project plan deliverable from the Planning phase, and the initial iteration starts with the lower level, non-production environment.
  - This includes all steps pre, during, and post, including any client-specific post steps, and collaborating with the client to address and resolve any issues identified during testing.
- UAT should be performed on a Production-like environment with the same production architecture configuration. This will give the best estimate to compare and plan for the production upgrade.
- The production upgrade plan is detailed down to the minute and builds in tasks for backup points, status calls, and decisions, as well as applicable, production-only tasks such as configuration of backups, monitoring, etc.
- The production upgrade plan is reviewed at multiple levels and cleared for execution, including a review of the technical document.
- Execution of the production upgrade is tracked as occurring with regular updates and communication.
- The upgraded Oracle database is declared successful after validation and acceptance.
- Post-upgrade support is provided to facilitate a smooth cutover to the upgraded Oracle database.
- Post-go-live tasks are also completed, including shutdown and retirement of obsolete database and systems.
- A final project review is conducted to close out the successful Oracle database upgrade.

Differentiators

Experience	Cost-Effectiveness	Proactiveness
Our Senior DBA's, Leads, and Managers bring a wealth of experience and knowledge that is applied to each Oracle Database upgrade and migration project.	Our solutions incorporate a blend of on-shore, near, and off-shore consultants that enable us to provide cost effective solutions based on each client's needs.	We use custom monitoring tools to proactively identify risk areas early-on, and make recommendations and improvements to eliminate issues before it impacts the business.