How to Move Oracle EBS to the Cloud and Effectively Adapt Operational Benefits

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New York Oracle User Group (NYOUG)

Virtually live from New York, the world's most exciting city welcomes all Oracle users, associates, students and professionals to become part of this dynamic group.

NYOUG was formed in 1984 for the exchange of ideas, assistance and support among users of Oracle software products.

nyoug.org

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- More than 20 year's experience in IT
- Technical background in
  - Implementing and supporting Oracle Applications with VLDB
  - Global implementations and complex solutions across industry sectors
  - Oracle EBS
  - Oracle EPM
  - GoldenGate
  - OBIEE
  - Data Center migrations
  - Cloud transformation

About Datavail

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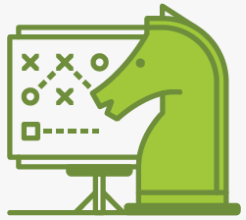

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Upgrades

Cloud migrations

Assessments & roadmaps

Monitoring

Data integration & ETL

Applications & DB We Support:

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- Oracle Database
- Oracle Analytics
- GoldenGate
- WebLogic
- Oracle Data Integrator
- Cloud Platforms (AWS, Azure, Oracle Cloud)
- And more …

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Introduction

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Overall Cloud Survey Results

- **70%** of companies have some workloads in the cloud today
- **75%** of these companies are leveraging public cloud, 25% private cloud
- **60%** are hybrid cloud (combination of on-prem and public cloud)
- **~50%** of companies say cloud costs are about what they expected
- Databases, analytics and web/content hosting are the workloads moving fastest to the cloud
- Apps are moving to SaaS, DevOps, Agile, CD/CI with microservices and containerization
- **>50%** of larger enterprise are leveraging multiple cloud providers
- **<40%** of mid-sized and small companies are leveraging multiple cloud providers
- **>70%** of all organizations are considering leveraging PaaS solutions from cloud providers
- **>60%** of all organizations are considering modernizing their database platforms

Introduction

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- The IT trend of moving on-premise workloads to the cloud shows no signs of slowing down.
- Cloud migrations are intricate and complex projects that require expertise in order to ensure a successful and smooth migration for EBS applications.
- It is key that, before starting a cloud migration, businesses ensure a thorough and holistic migration plan is put in place.
- We'll discuss key areas to review that are an absolute must for any Oracle EBS preparing for a journey to the cloud.
- Identify key risk areas and be prepared with action plan and contingency in planning phase versus being reactive.

The 7 Essential Elements

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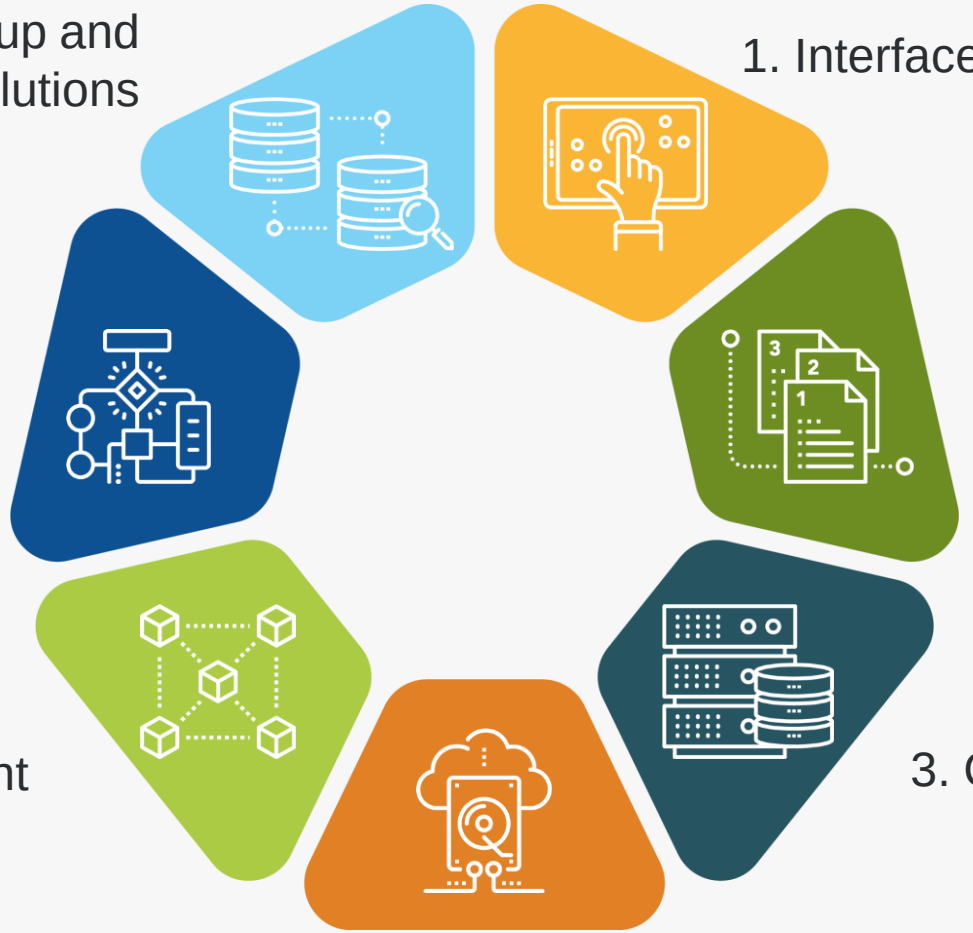

1. Interface Jobs
2. Applications Versions and Certification Status
3. Current Storage Solution
4. Data Migration Strategy
5. Storage Footprint
6. Testing Strategy
7. Future State Backup and Monitoring Solutions

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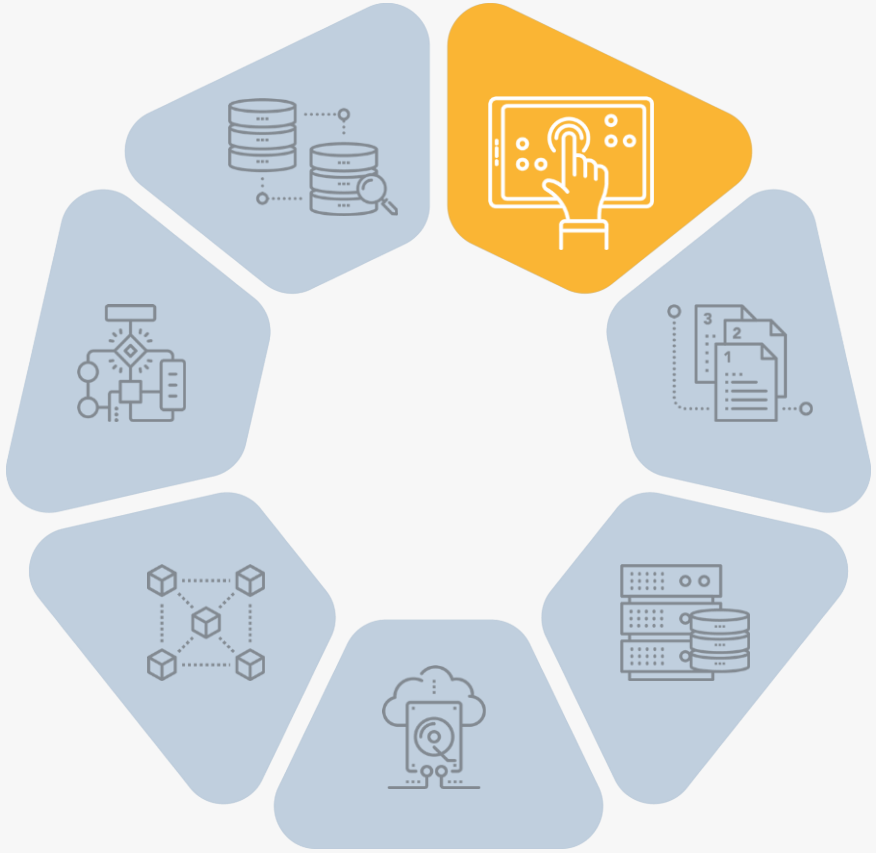

1. Interface Jobs

Interface Jobs

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- Identify all interface jobs and their connection methods
- Review understand current versus future state impacts due to EBS move.
- Review each interface job and their transaction volume stats.
- Any jobs with DB link connection method for processing versus interface table/staging table involvement. Which may impact performance greatly with network latency.

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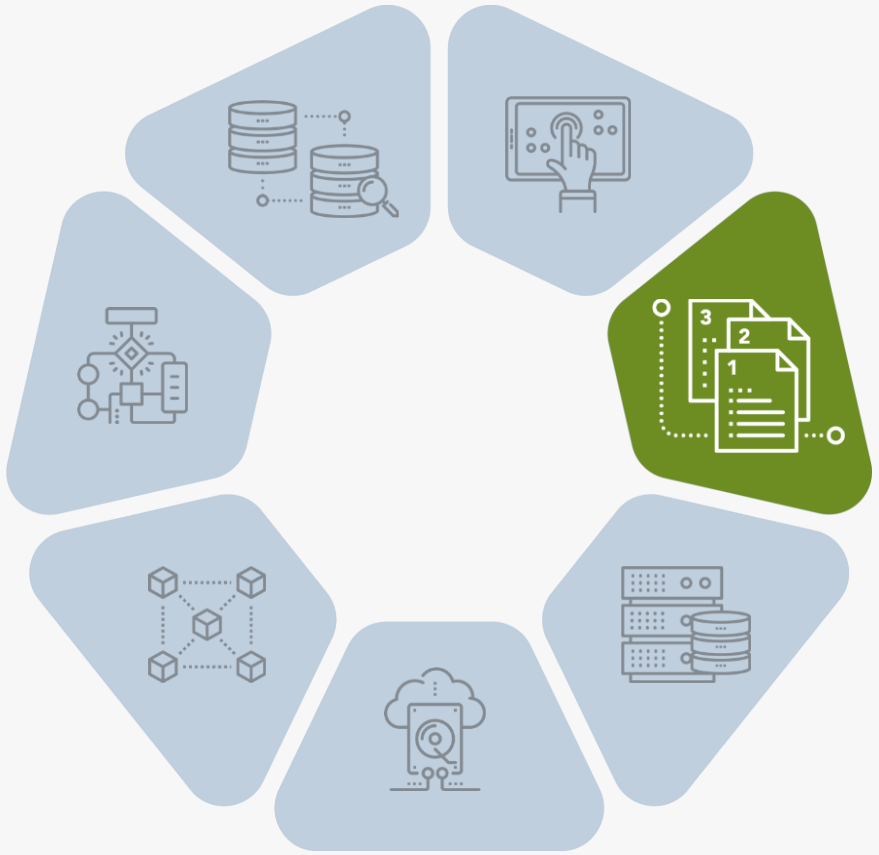

2. Applications Versions and Certification Status

Applications Versions and Certification Status

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- Review applications versions current state and certification status with Oracle Support, and how it will impact migration dates.
  - Application or DB-level

- Premier support for EBS 12.1.3 will end in December 2021!
- If you are running EBS on 12.1.3, you need to review the strategy of upgrading first to 12.2 and then migrate
- OR migrate first and then upgrade to 12.2
- Understand the pros and cons of the various approaches

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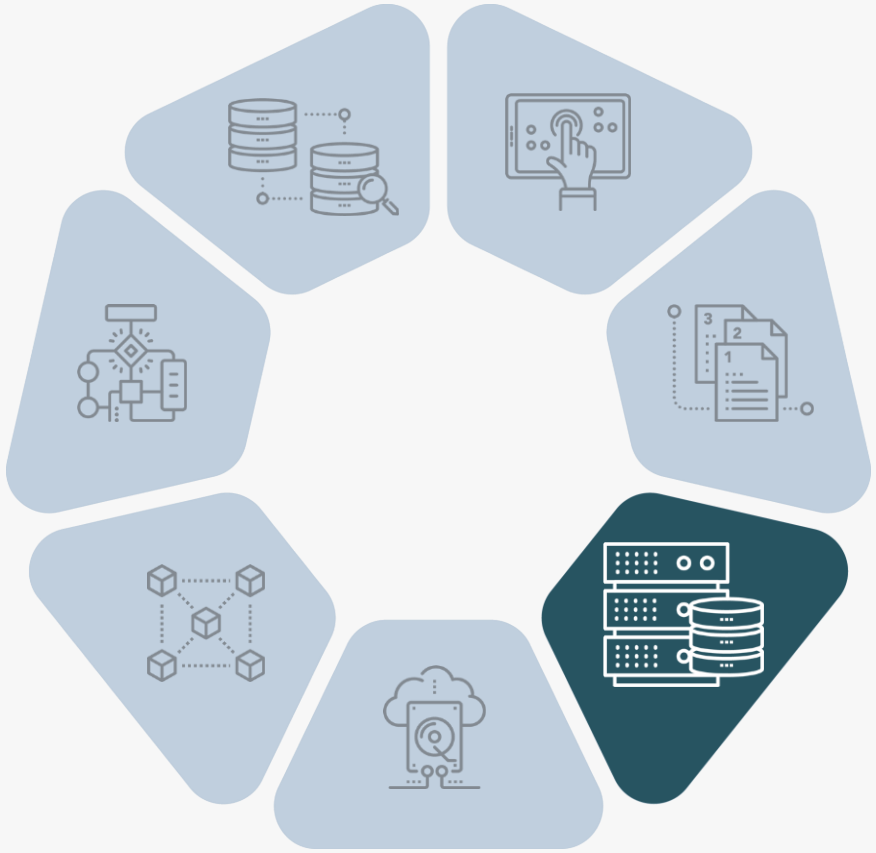

3. Current Storage Solution

Current Storage Solution

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- Review Current Storage Solution and Database IOPS requirement to meet business needs, so that appropriate storage can be identified on the cloud along with VM limitation
- Consider running your AWR report during both regular and peak workloads from your existing infrastructure.
- This will help you choose the appropriate target server to right-size for the target server build. Each cloud platform provides these options differently.

Potential areas to review

- Virtual machine size
- Network throughput
- Disk types and configurations

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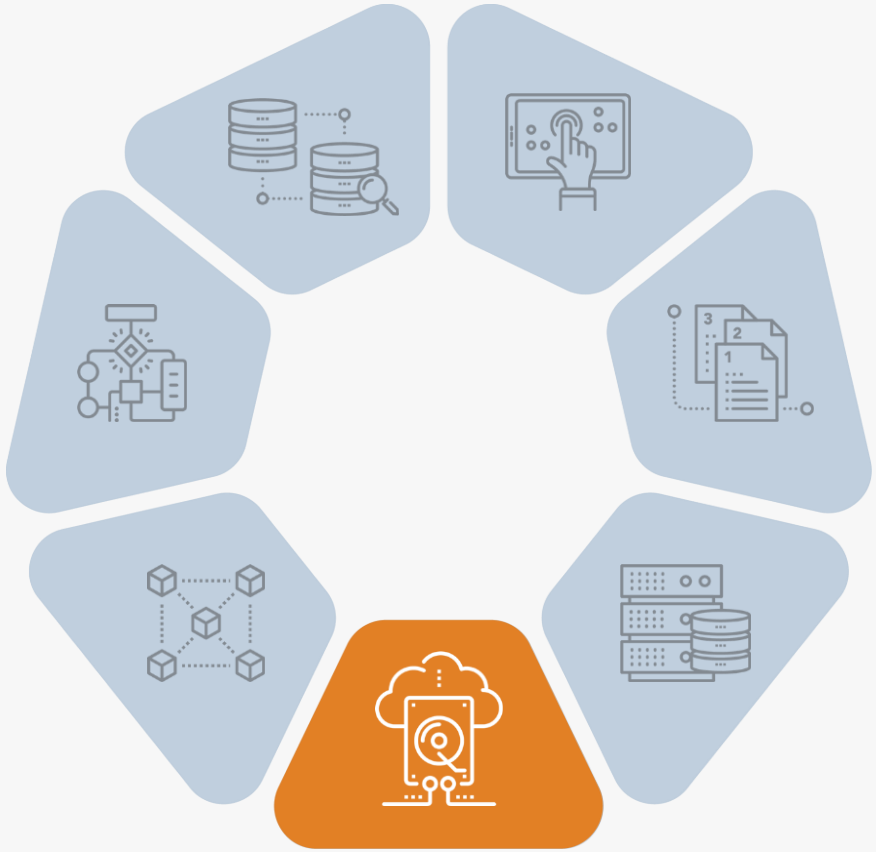

4. Data Migration Strategy

Data Migration Strategy

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- Review Data Migration strategy from on-prem to Cloud to ensure cutover time is minimal.
- Identify allowed downtime for cutover.
- Review various options to migrate the data over to target location.
- The bigger the size, the bigger the challenge.
- Assure a process is identified and works as anticipated as part of POC to avoid possible delays to the overall project.

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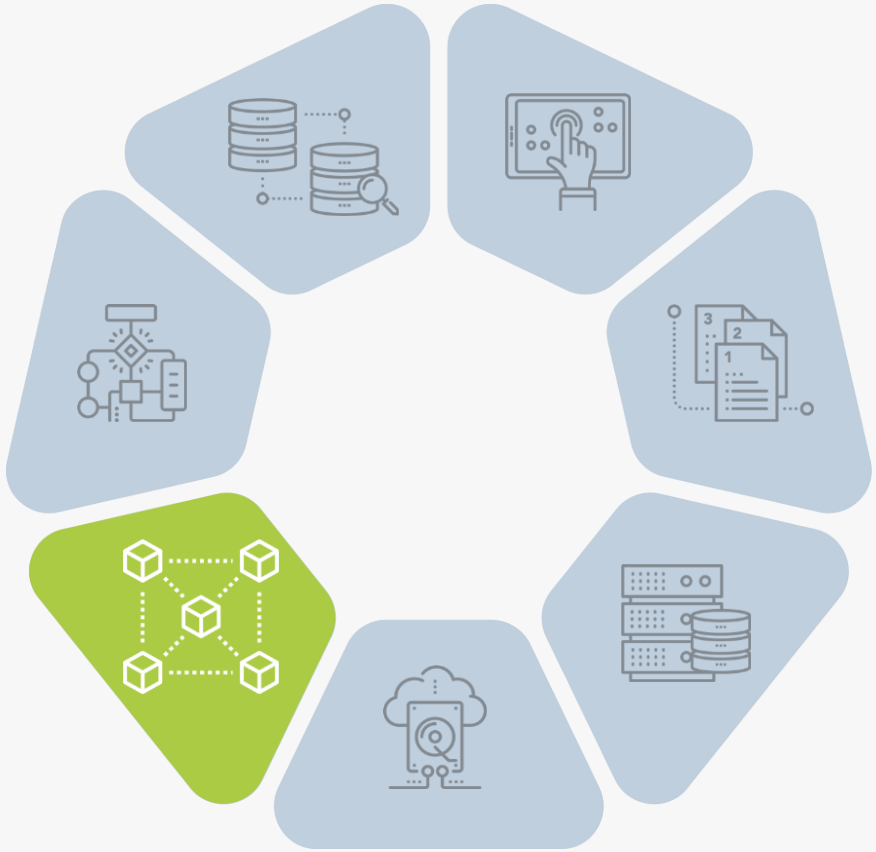

5. Storage Footprint

Storage Footprint

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- Evaluate Storage footprint cost reduction on the cloud with available options.
- Look at on-prem prod and non-prod DB storage utilization and cost.
- With cloud options and limitations around the storage, understand the impact and change.
- Review and understand the options available from third party solution, as needed.

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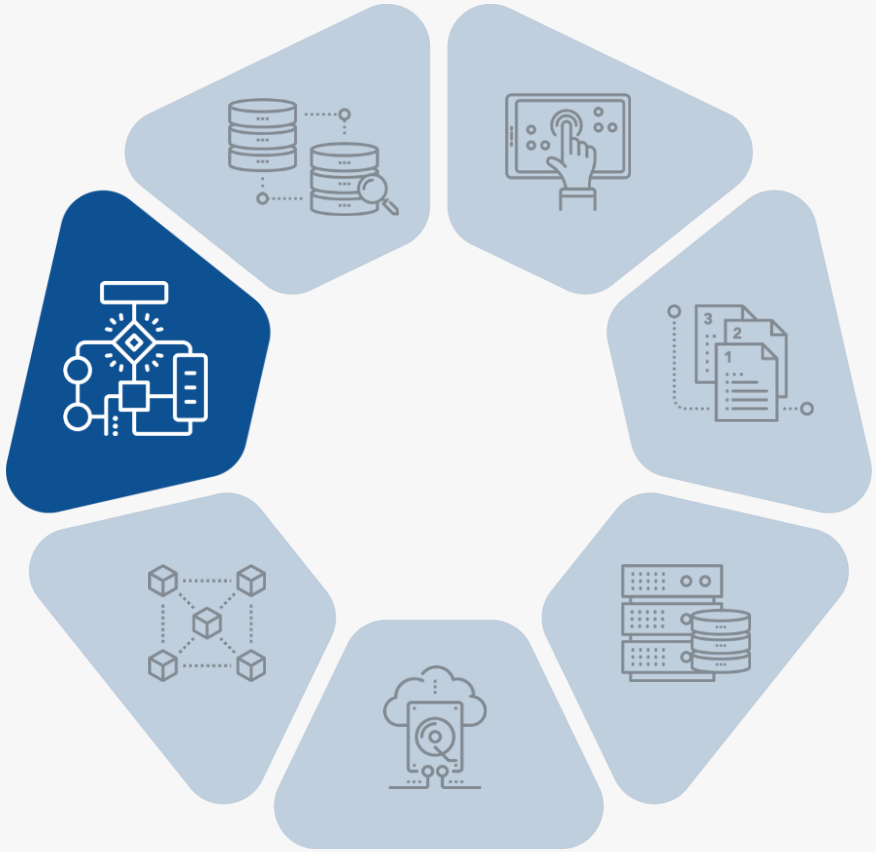

6. Testing Strategy

Testing Strategy

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- Evaluate testing strategy to make sure surprises post migration will be at a minimum.
- KPI Testing strategy to include regression and load test scenarios.
- Not just jobs running and completing, but runtimes to be reviewed along with volume details.
- Perform testing with PROD-like environment on cloud as a minor change in config could increase the number of iterations for overall testing.

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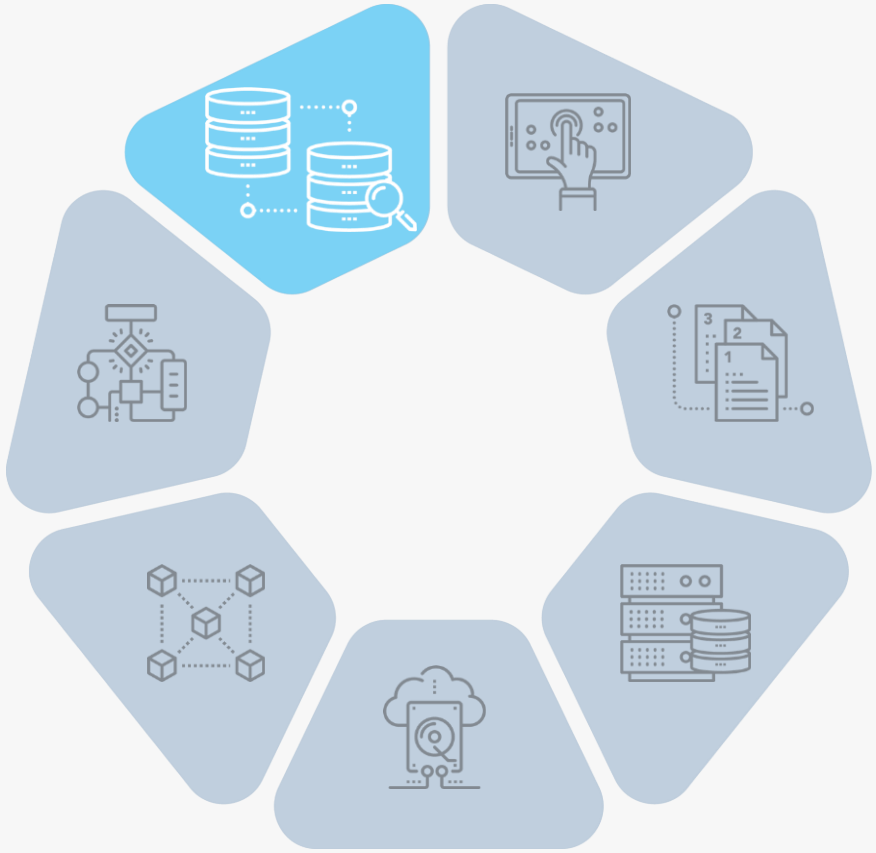

7. Future State Backup and Monitoring Solutions

Future State Backup and Monitoring Solutions

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- Review and understand backup solution on target cloud platform for database.
- Backup - Will it be same or different? How does it impact Recovery Time Objective (RTO) and Recovery Point Objective (RPO)?
- Review monitoring tools and integration with ITSM solution to understand the changes cloud would bring for O/S level monitoring, and DB level monitoring for operational needs.
- Review clone process and SLAs with various teams for operational needs as this could change the amount of time required to perform clone with cloud default options.
- Review the environment Strategy, given new environment build can be done within a day or two days with cloud capabilities. Keep minimum no of environments for Operations and deploy and remove based on needs.
- Create hibernation schedule for each environment to optimize operational costs by utilizing cloud capabilities for required environments. Example Development team needs it up only for 12 hours remaining 12 hours we can keep it down with automated shutdown and startup process while meeting cloud platform requirements and limitations.

Conclusion

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These 7 factors can help organizations launch into an action plan to address any concerns they weren't previously aware of.

This allows for a smoother and more transparent process for all the teams involved in the cloud journey.

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Zero Downtime Cloud Migrations by Datavail

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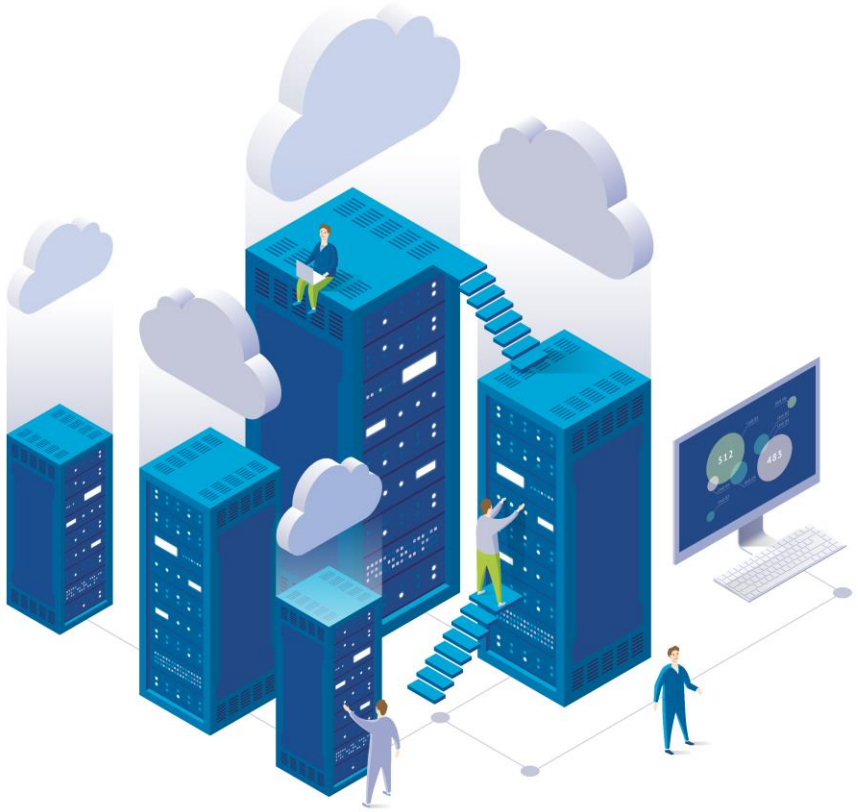

Datavail's zero downtime migration service guarantees that you can transfer your operations from on-premise servers to the cloud quickly and easily.

Zero Downtime Migrations by Datavail

- We support zero downtime migrations from Oracle EBS to one of the following cloud providers of your choice.

Zero Downtime Migrations by Datavail

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As part of every migration we also:

- Holistically review your IT environment.
- Determine your unique benefits, challenges, and requirements.
- Generate a detailed cloud readiness report.
- Execute the “lift and shift” cloud migration.
- Performing software integrations related to EBS.
- Monitor and manage the environment’s performance throughout the migration.

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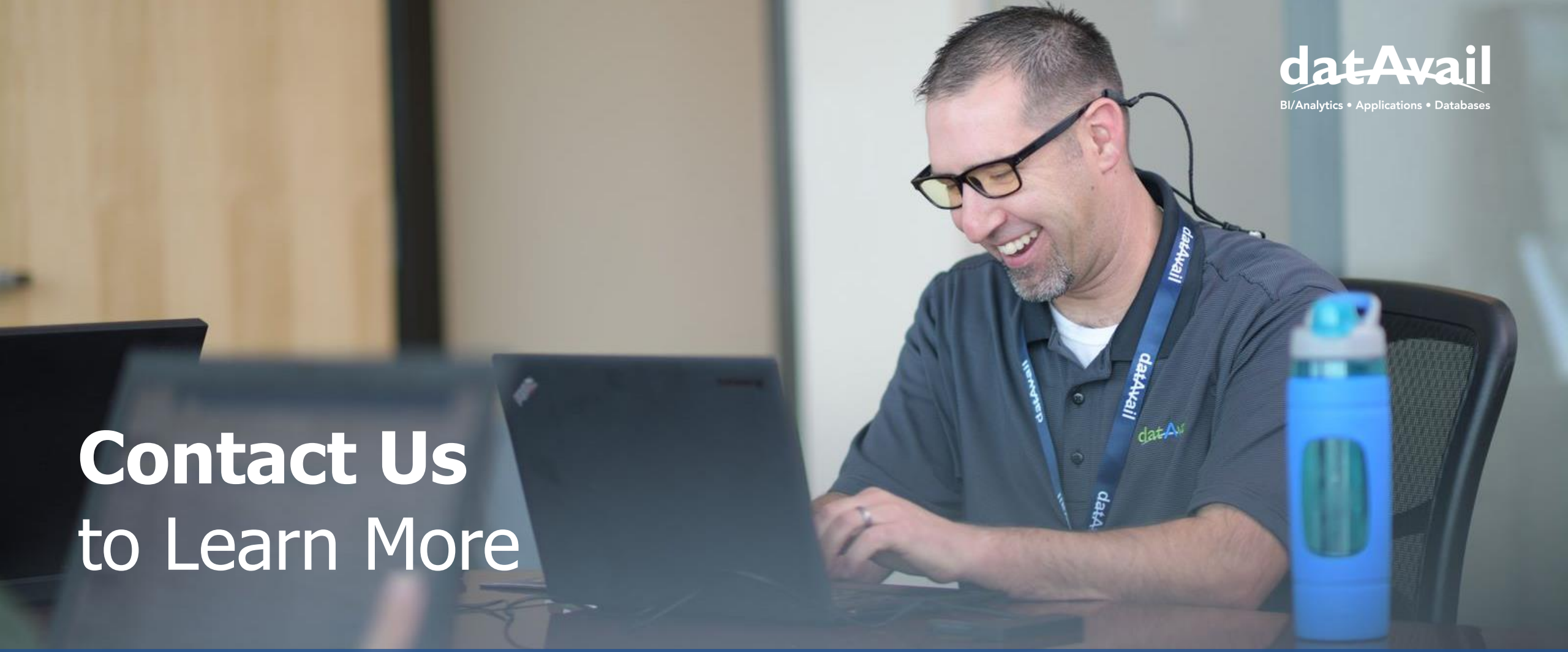

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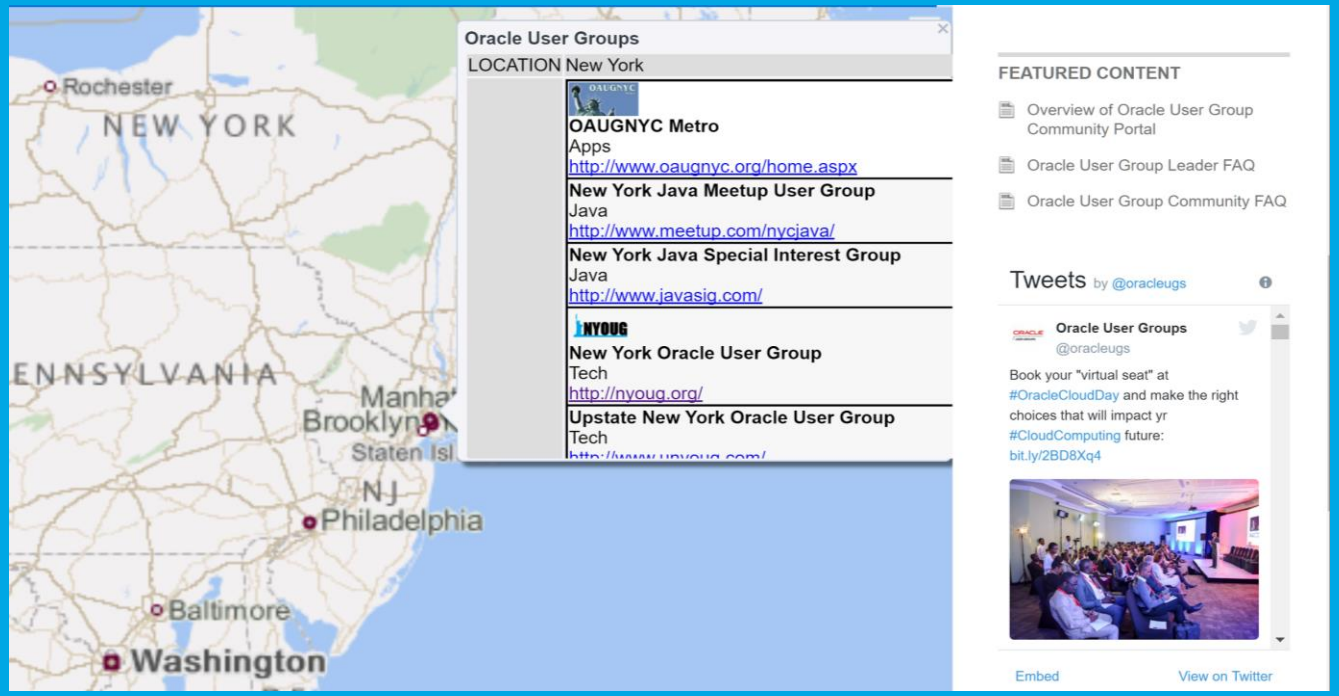

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Discussion
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