

## Non-Functional Requirements for Data Migration

1. **Data Accuracy and Integrity:** ensure that data gets sent without error, loss, or corruption.
2. **Consistency of data relationships:** Maintain all data relationships and dependencies so that data acts properly in the new system (for example, foreign keys and constraints remain valid).
3. **Minimize Downtime:** To reduce user disturbances, limit system downtime during migration to a fixed, defined window.
4. **Handle large volumes efficiently:** The migration method should be able to handle huge datasets without slowing down significantly. Ensure that it is completed within a reasonable timeframe.
5. **Error Recovery and Restart Options:** Instead of beginning afresh, the migration should include options for error recovery and restarting from a stored point if stopped.
6. **Reduce Impact on the Source System:** Avoid slowing down or upsetting the existing system, especially if consumers are still using it.
7. **Testing and Preparation:** Before proceeding with the migration, thoroughly test the process in a test environment to identify and resolve any potential difficulties.
8. **Backup and Rollback Plans:** Make a comprehensive backup and develop a plan to revert to the original state if major issues arise during migration.
9. **Security and Privacy Compliance:** Ensure that sensitive data is encrypted during transfer and limit access to authorized persons only. To secure personal

information, ensure that the migration procedure is compliant with data protection requirements such as GDPR or CCPA.

## References:

(No date a) *What Is AWS Migration Hub? - AWS Migration Hub*. Available at:  
<https://docs.aws.amazon.com/migrationhub/latest/ug/whatishub.html>

What is Landscape Analysis and why is it important to your data migration?  
*et al.* (no date) *Data migration pro, Data Migration Pro*. Available at:  
<https://www.datamigrationpro.com/>