Cloud Database Migration Checklist for Google Cloud Platform



Database migration to the cloud often proves to be more complex than anticipated. However, by following a step-by-step process, proven successful across numerous transformation projects, you can take the risk and the stress out of your cloud migration.

30-45 DAYS PRIOR

- Establish a database migration project manager preferably one that has experience with database management rather than owning multiple software development projects.
- Determine team leads for departments that will be involved and impacted by the migration. They should be advisers for the process and sign off on the plan.
- Identify and account for any applications that may be impacted by going over a public network versus behind the corporate firewall.

Investigate database sizing needs. This will determine how much storage and what instance types your team will need.

Evaluate which migration strategy is best for you. Lift and shift? Zero downtime migration? Continuous replication? The Striim Team's technical consultants can advise you on best practices based on your environment and needs.

Begin weekly prep meetings with department leaders involved.

Evaluate your cloud infrastructure strategy for the next 3-5 years. How can your deployment be set up to scale with your future plans?

21-30 DAYS PRIOR

Perform an audit of your entire database – all your tables, users, indices, cataloging, as well as performance metrics in use.

• Will your current database sizing, operations, and settings be compatible with your future cloud database?

Record owners of every affected application.

Test your disaster recovery plan and make sure there's a contingency plan in place for failures.

striim Move Your Data								
Connect	Assessment Report	Convert Schema	Migrate Schema	Migrate Data	Post Migration			
Convert Schema fro	om Oracle to PostgreSql							
	TAI	BLE	STATUS	SQL				
	H_	CUSTOMER	Success	Show Generated SQL				
TPCH	H_	LINEITEM	Success	Show Generated SQL				
	H_	NATION	Success	Show Generated SQL				
	H_	ORDER	Success	Show Generated SQL				
	H_	PART	Success	Show Generated SQL				
	H_	PARTSUPP	Success	Show Generated SQL				
	H_	REGION	Success	Show Generated SQL				
	H_	AVERAGESALES	Error	HideGenerated SQL				
	CREAT	TABLE TPCH.H_AVERAGESALF	S (ID numeric(22) NOT NULL, AVER	AGE STRIIM_UNKNOWN , PRIMARY KE	¥(ID))			
				RESET	SAVE			

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14 DAYS PRIOR

- Develop a game plan for the migration day outline specifically who will do what for a more efficient move.
- Make sure your public cloud security team has approved your database migration and deployment plan.
- Test key processes and applications to establish baselines.
- Lock down all changes in the environment to ensure stability during migration.
- Make sure your database has all the correct privileges set up for your migration software.

7 DAYS PRIOR

Register your migration team with data center security. Be sure to include any vendors or third parties.

Make sure all stakeholders are firm on the date of the migration.

Prepare some test queries that will confirm the migration is successful. Make sure all stakeholders provide other queries to test that their applications will port well to the new database.

THE DAY OF THE MOVE

Notify all stakeholders exactly when the migration begins with an estimate for completion.

Execute the migration. Run your test queries to make sure the results are as expected.

Check the status of each table.

striim		ľ	Nove Your Data				
Migrated Not Migrate	d	Migrated Si	Migrated Skipped Failed		Very Large Tables (>1B rows) Medium Tables (>1K rows) Small Tables (<1K rows)		
Retry Data Migration							
О ТРСН		_	STATUS Success		TABLE SUMMARY Success: 7 Error: 1		
				0 database	es selected I 🕞 I 📋	Select all Errors	
Details						nem	
TABLE	SOURCE DB	RECORDS	TABLE	TARGET DB	RECORDS	STATUS	
H_AVERAGESALES	TPCH	5	H_AVERAGESALES	TPCH	5	Error	
H_CUSTOMER	ТРСН	150000	H_CUSTOMER	TPCH	150000	Success	
H_LINEITEM	TPCH	1500000	H_LINEITEM	TPCH	1500000	Success	
H_NATION	ТРСН	25	H_NATION	TPCH	25	Success	
H_ORDER	TPCH	1500000	H_ORDER	TPCH	1500000	Success	

POST MIGRATION

Test all processes and applications against your baseline tests.

Evaluate the performance of your new database. Tune your database until the performance is equal to or better than your previous deployment.