

Information Management Software Services InfoSphere Replication Server Q Capability Services



Highlights

- ***Our Services experts can help you gain business value quickly with your Replication Server Q replication deployment***
- ***InfoSphere Replication Server on z/OS best practices transferred to your team***
- ***Benefit from near real-time synchronization of active-active databases***
- ***Eliminates dependency on batch window updates and reduce data latency***

Q replication is a replication solution that can replicate large volumes of data at low levels of latency. Q replication captures changes to source tables and converts committed transaction data into messages.

The changed data is not staged in tables. As soon as the data is committed at the source and read by Q replication, the data is sent. The messages are sent to the target location through WebSphere MQ message queues. At the target location, the messages are read from the queues and converted back into transactional data. The transactions are then applied to your target tables with a highly parallelized method that preserves the integrity of your data.

You can use Q replication for a variety of purposes that require replicated data, including failover, capacity relief,

geographically distributed applications, and data availability during rolling upgrades or other planned outages.

InfoSphere Replication Server (Q replication) on z/OS plays an important role in Enterprise Application Integration initiatives by:

- Eliminating hand-coding formerly required to monitor data changes
- Removing data-event capture overhead from the transaction path itself
- Providing a single integration point—the source data—for data events that may be initiated by multiple applications, making the data-event capture independent of the applications and their evolution
- Making the data integration independent of the structure or processing flow of the applications involved
- Reducing latency for data delivery through ETL tools

What IM Services has to offer

The implementation of InfoSphere Replication Server, Q replication, on z/OS will capture data changes from a DB2 subsystems (stand alone, or datashare groups). Those changes will then be packaged in a consistent and compact format and sent to a target InfoSphere Replication Server as WebSphere MQ messages.

The duration is typically one to two weeks and it consists of three or four phases:

Planning of the installation

This consists of gathering application and technical requirements, and system infrastructure details which are captured as part of an environment prerequisite checklist created by the consultant & validated with the customer prior the start of the engagement.

Configuration

This phase consists of creating queue map definitions, and subscriptions which map source to target tables with some transformations as needed; this is done for a limited set of tables.

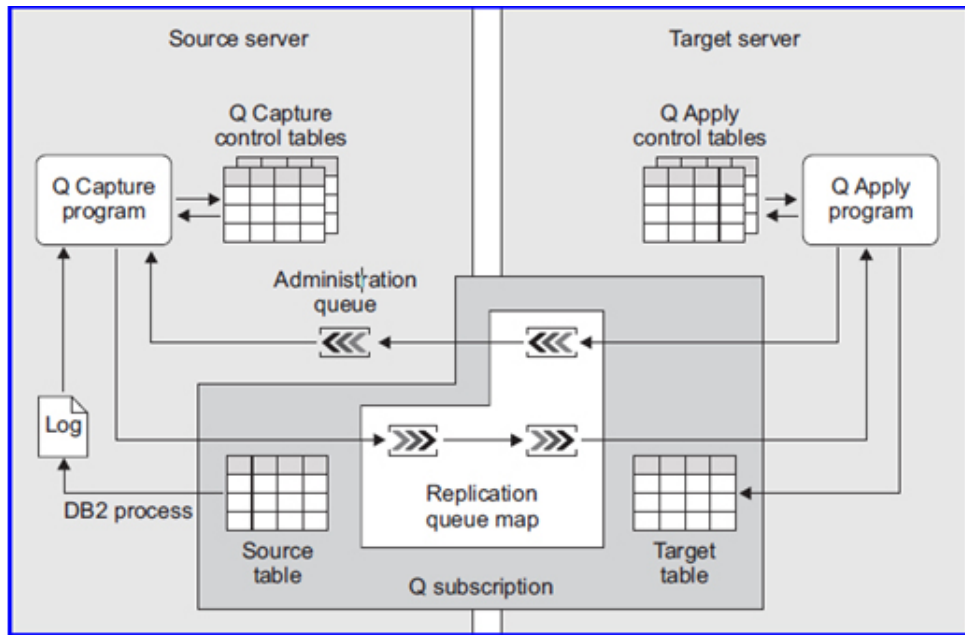
Testing

Usually customers provide a test case supporting the application; the purpose of this phase is to validate that the changes are captured correctly.

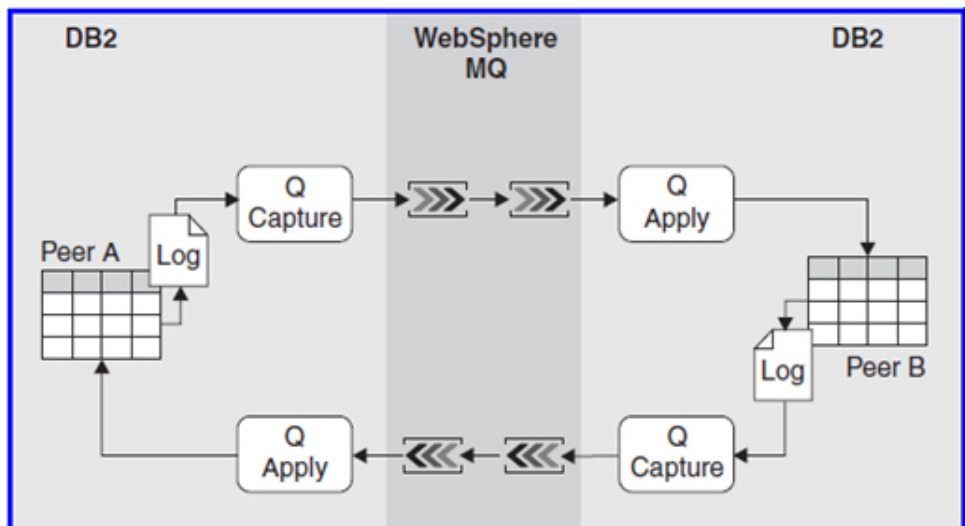
Monitoring

This phase consists of implementing the 'Q replication Dashboard' and/or the 'Alert Monitor' to track and report on replication processes. These tools are invaluable when a customer moves into production, to validate ongoing replication, and quickly resolve issues.

A simple Q replication Configuration



A Configuration for Active-Active Q replication Scenario





Deliverables

The following items will be delivered to you as a result of this implementation:

- An environment prerequisite checklist will be created by the Information Management Consultant to ensure all prerequisites are met
- Together with your team, a configuration of Queue Maps and Subscriptions will be completed
- Installation and configuration of Q replication Dashboard or the Alert Monitor
- A system Configuration document will be provided with specific configuration parameters for your environment

The customer will gain the necessary knowledge transfer to be able to provide future changes to the environment independently.

Benefits of this engagement

This engagement will leverage best practices & methodology to ensure low risk and a quick return of your software investment.

- Leverage repeatable, proven processes and standards to reduce costs and project risks
- Accelerate the time to value and ROI with the knowledge and best practices brought by our implementation experts
- Gain knowledge transfer and lessons learned from our experts
- Validate the installation with a basic configuration

Your independence is our greatest success

That is the underlying theme to our delivery approach for the InfoSphere Replication Server Q Capability offering. We believe that nothing is more important than transferring our knowledge to your organization and supporting your objective to become self-sufficient.

Engage Today

With a world-wide team of highly trained services professionals, the IBM Information Management Services team can help build your solution with confidence while assuring that the business needs and expectations of your organization are met. Our experts are ready to assist your organization with:

- Establishing project goals, expectations
- Maximizing the return on your investment
- Reducing project delivery times, complexity and risk through the delivery of proven offerings
- Reducing total cost of ownership

Available for whatever the delivery approach your business requires, the IBM Information Management Software Services team will produce results quickly, and will help to put your project on the road to success.

For More Information

For more information regarding this or any services offerings, please visit the IBM Information Management website at:
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