# **Qlik Replicate Upgrade Testing Plan**

## **1. Introduction**

This document outlines the testing plan for upgrading Qlik Replicate from version 2021.11 to version 2022.11. The purpose of this testing is to ensure a smooth transition to the new version while maintaining the integrity and functionality of the Qlik Replicate environment.

## **2. Objectives**

The key objectives of the testing plan include:

* Verify compatibility of the upgraded version with existing configurations.
* Validate the functionality of critical components such as data replication, transformation, and monitoring.
* Identify and address any potential issues arising from the upgrade.
* Ensure minimal downtime and impact on ongoing replication processes.

## **3. Test Environment**

Describe the test environment, including hardware specifications, operating systems, databases, and any other relevant components. Ensure that the test environment mirrors the production environment as closely as possible.

## **4. Test Scenarios**

### **4.1 Pre-Upgrade Checks**

* Database Backup: Ensure a full backup of the Qlik Replicate database is taken before starting the upgrade process.
* Configuration Backup: Backup all configuration files and settings.
* Environment Snapshot: Capture the current state of the environment, including server configurations and system logs.

### **4.2 Upgrade Process**

* Installation: Verify that the installation of Qlik Replicate 2022.11 completes without errors.
* Database Upgrade: Confirm the successful upgrade of the Qlik Replicate database schema.
* Configuration Migration: Ensure existing configurations are migrated correctly to the new version.
* Dependency Check: Validate that all dependencies and prerequisites are satisfied.

### **4.3 Post-Upgrade Checks**

* Connectivity Tests: Test the connectivity between source and target systems.
* Data Replication: Verify the replication of sample data to ensure it occurs without errors.
* Transformation: Confirm that any data transformation processes are functioning as expected.
* Monitoring and Logging: Validate that monitoring and logging features are operational.
* Performance Testing: Assess the performance impact of the upgrade under realistic conditions.

## **5. Rollback Plan**

Define a rollback plan in case any issues arise during the testing phase. This should include steps to revert to the previous version of Qlik Replicate and restore the database and configurations.

## **6. Acceptance Criteria**

Clearly define the criteria for success, including specific metrics or conditions that must be met for the upgrade to be considered successful.

## **7. Test Schedule**

Outline the schedule for testing, including start and end dates for each testing phase.

## **8. Test Responsibilities**

Assign responsibilities for each testing task to individuals or teams involved in the upgrade process.

## **9. Reporting**

Define the format and frequency of reporting on the testing progress and results.

## **10. Approval**

Specify the process for obtaining approval to proceed with the upgrade based on the testing outcomes.