

Disaster Recovery with Google Cloud Firestore Backup

Implementing a robust disaster recovery solution leveraging Google Cloud Platform's Firestore and Cloud Workflows.

Disaster Recovery Solution

Overview

Continuous

Backup

Regular backups of Firestore data on a scheduled basis.

Rapid Restoration

Quick recovery of data using Cloud Workflows in the event of an outage.

Secure Storage

Backups stored securely in a separate GCP region.

Scalable Solution

Handles growing data volumes and changing business needs.

Leveraging Google Cloud Platform

Firestore Database

Fully managed NoSQL document database for storing application data.

Cloud Workflows

Serverless workflow orchestration for automating backup and recovery processes.

Cloud Storage

Highly durable and secure object storage for backing up Firestore data.



Firestore Backup with Cloud Workflows

1

Backup Trigger

Cloud Workflow triggered on a scheduled basis to initiate Firestore backup.

2

Data Extraction

Workflow exports Firestore data to Cloud Storage as a backup file.

3

Backup Verification

Workflow checks the integrity of the backup file before completing.

Workflow Design and Automation

1

Workflow

Orchestration

Designing and coordinating Workflows to coordinate backup and recovery steps.

2

Automated

Execution

Ensuring workflows run without manual intervention for consistent backups.

3

Scalable

Workflows

Workflows scale to handle increasing data volumes and changing requirements.



ARCHITECTURE DIAGRAM

Firestore Backup Via Cloud Workflows



Conclusion and Key Takeaways

1

Resilient Solution

Robust disaster recovery capabilities to protect critical business data.

2

Automated Workflows

Streamlined backup and recovery processes with minimal manual intervention.

3

Cost-Effective

Leveraging the scalability and efficiency of Google Cloud Platform.

4

Continuous Improvement

Ongoing testing and optimization to ensure the solution remains effective.