

# 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

Automated 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 implementing Workflows to coordinate backup and recovery steps.

2

## Automated Execution

Ensuring workflows run without manual intervention for consistent backups.

3

## Scalable Workflows

Designing workflows 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.