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.

Secure Storage

Backups stored securely in a separate GCP region.

Rapid Restoration

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

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

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

 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

Workflow

Orchestration

Leveraging Cloud Workflows to coordinate backup and recovery steps.

Automated

Execution

Scheduled workflows run without manual intervention for consistent backups.

Scalable

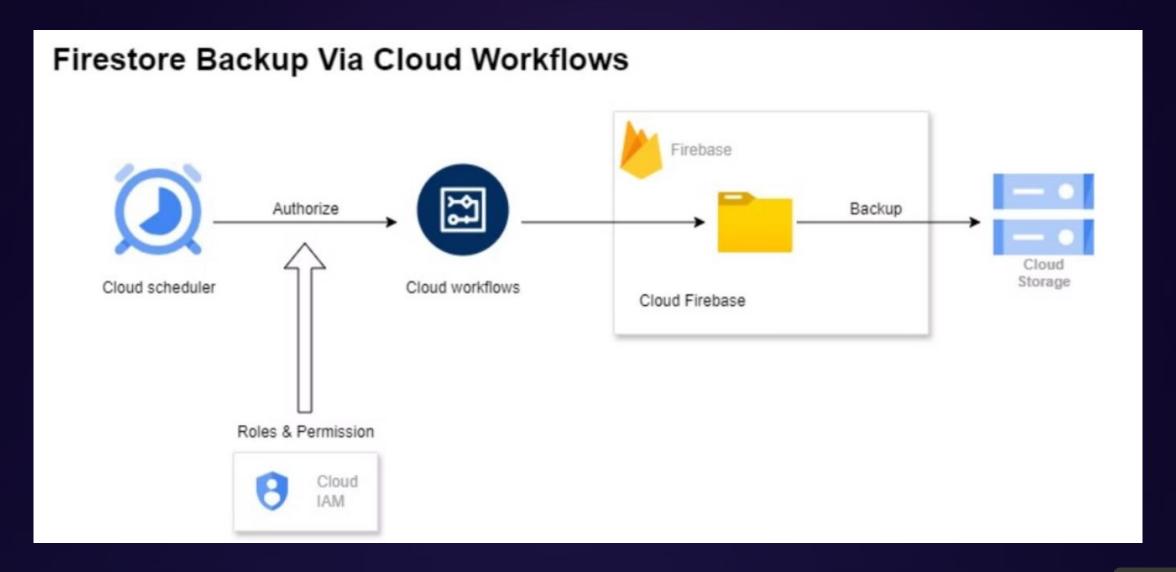
Workflows

Workflows scale to handle increasing data volumes and changing requirements.

3



ARCHITECTURE DIAGRAM



Conclusion and Key Takeaways

1 Resilient Solution

Robust disaster recovery capabilities to protect critical business data.

3 Cost-Effective

Leveraging the scalability and efficiency of Google Cloud Platform.

2 Automated

Werkflows ackup and recovery processes with minimal manual intervention.

4 Continuous

Improyement and optimization to ensure the solution remains effective.