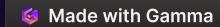
# Disaster Recovery with Google Cloud Firestore Backup

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**

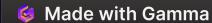
Backups stored securely in a separate GCP region.

### **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**

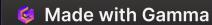
Fully managed NoSQL document database for storing application data.

### **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



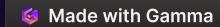
Cloud Workflow triggered on a scheduled basis to initiate Firestore backup.

### **Data Extraction**

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

### **Backup Verification**

Workflow checks the integrity of the backup file before completing.



# Workflow Design and Automation

1

### **Workflow Orchestration**

Leveraging Cloud Workflows to coordinate backup and recovery steps

2

### **Automated Execution**

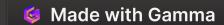
Scheduled workflows run without manual intervention for consistent backups.

3

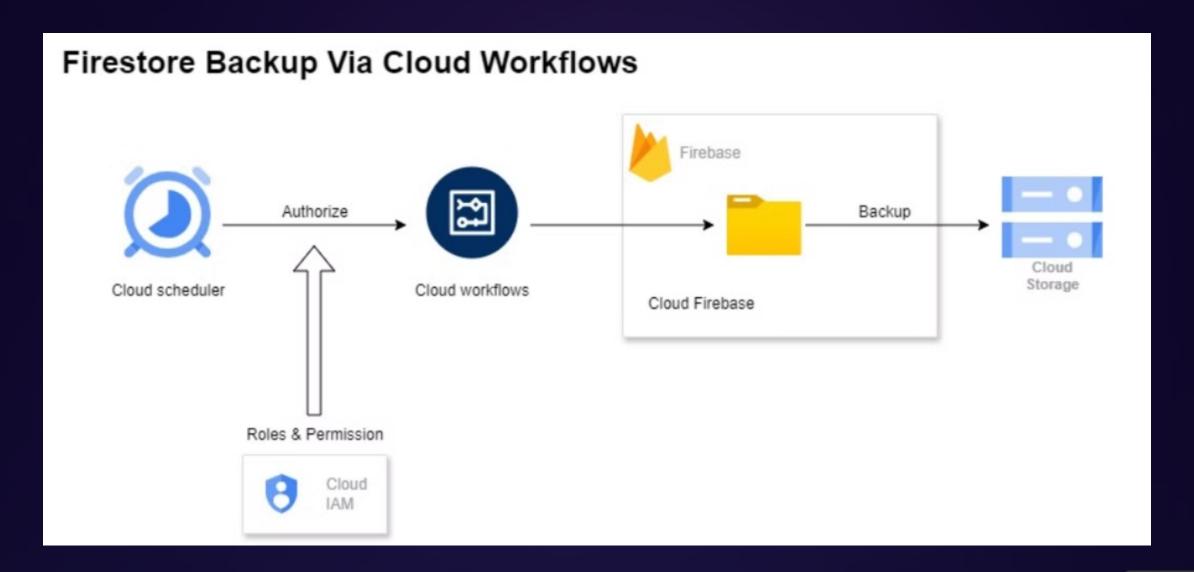
### **Scalable Workflows**

Workflows scale to handle increasing data volumes and changing requirements.





### **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 Workflows** 

Streamlined backup and recovery processes with minimal manual intervention

4 Continuous Improvement

Ongoing testing and optimization to ensure the solution remains effective.