Engineer Data

Automated 100 critical data backups using Barman

Automated 100 critical data backups using Barman, Google Cloud, Bash, and Python, ensuring data integrity across databases.

2022 – 2024

100

critical backups automated across the databases

Situation. The critical GIS data, the application instances and the databases were scattered across systems with backups that were inconsistent and partly manual. For a product that lives on its data, that's not a risk you can leave sitting — and the day you actually need a backup is precisely the worst day to find out it was incomplete.

Task. The task was to guarantee that all the critical data could be recovered, which meant automating comprehensive, verified backups across the whole estate — verified being the word that matters.

Action. The backup regime was built end to end. A hundred critical data backups got automated, with Barman handling the PostgreSQL side and Google Cloud holding the offsite copies, and the whole thing was orchestrated and validated with Bash and Python — because a backup you've taken but never checked isn't really a backup, it's a hope. So there were retention policies to keep them current and integrity checks to confirm each one was actually good, not just present.

Result. Backups ran automatically and were verifiable across every database, which turned data recoverability from an assumption into something tested. A major operational risk came off the business and got replaced with a recovery path you could actually trust — the difference being that this one had been checked, not just configured.

Bring this experience to your project

Use “Automated 100 critical data backups using Barman” as a starting point for a similar challenge in your organisation. The services behind this work are available for your project. Somebody responsible for the thing the whole company rests on: it is up, it is backed up, and it is not quietly rotting.

Explore our services Get in touch →

Look behind the result

Read the situation, decisions and result in this example. We can discuss which parts transfer to your constraints and which need another approach. Automated 100 critical data backups using Barman — 100 critical backups automated across the databases

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Are your backups actually reliable?

Talk through your project with the engineer responsible for delivery. We agree the scope, price basis and handover in writing before work begins.

Role context: DevOps Engineer. It draws on Databases, PostgreSQL, DevOps, Infrastructure, Cloud, Automation & CI/CD, Reliability & Backups and Python. And while you are here, we are rather good at Database Administration (DBA), DevOps & CI/CD Automation and Backup & Disaster Recovery.

Get in touch Explore our services

One piece of **a longer record** — and it is all on this site.

Every entry is written the same way: the situation, the task, what we did and what changed.

See the whole record

Define the improvement you need

Bring a representative dataset, the questions it must answer and the current bottleneck. We can agree how to measure quality, throughput and recovery.

See what it costs Get in touch →

Are your backups actually reliable?

Ask about the decisions behind “Automated 100 critical data backups using Barman”. You will speak with the people who can explain the work and assess your own project.

Explore our services

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