

Trilogy for Data Processing

Pub/Sub -> Cloud Run -> Big Query



About US

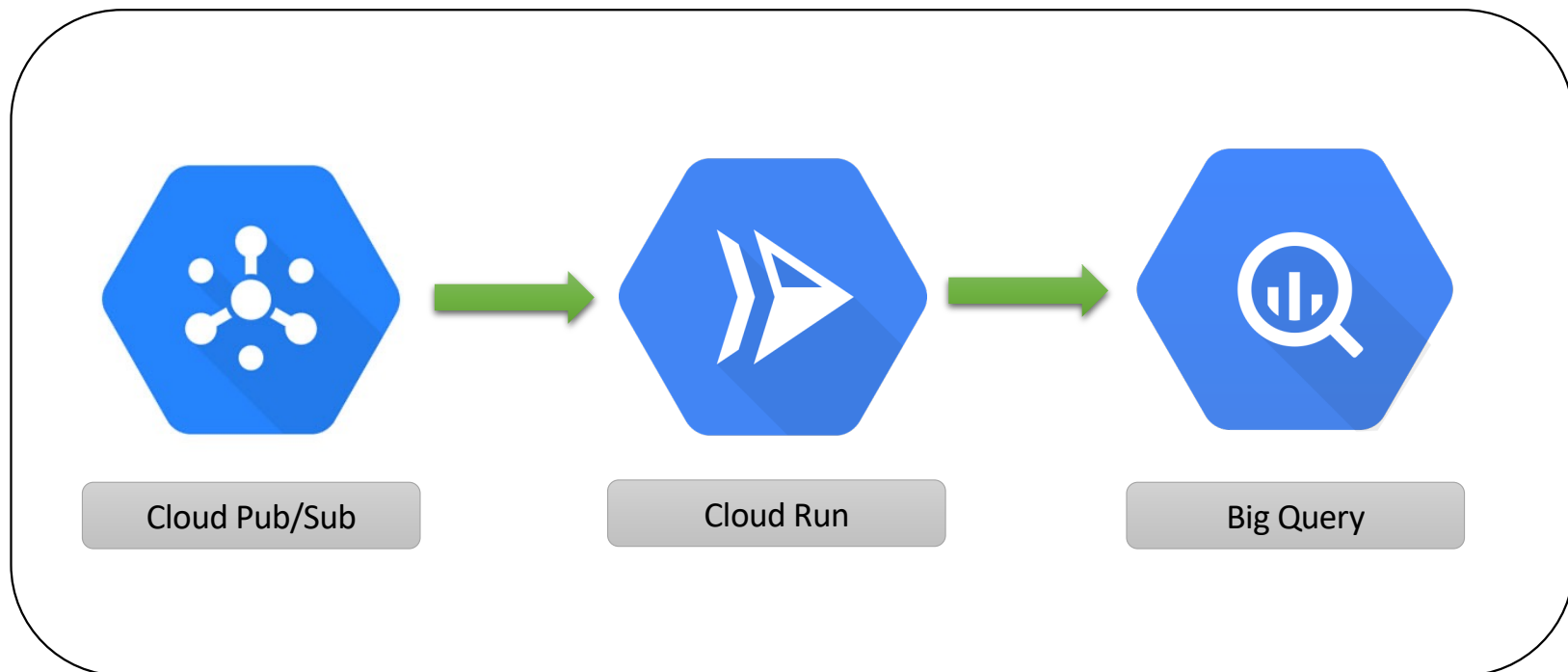


Dinesh J
Senior Engineer
Presidio

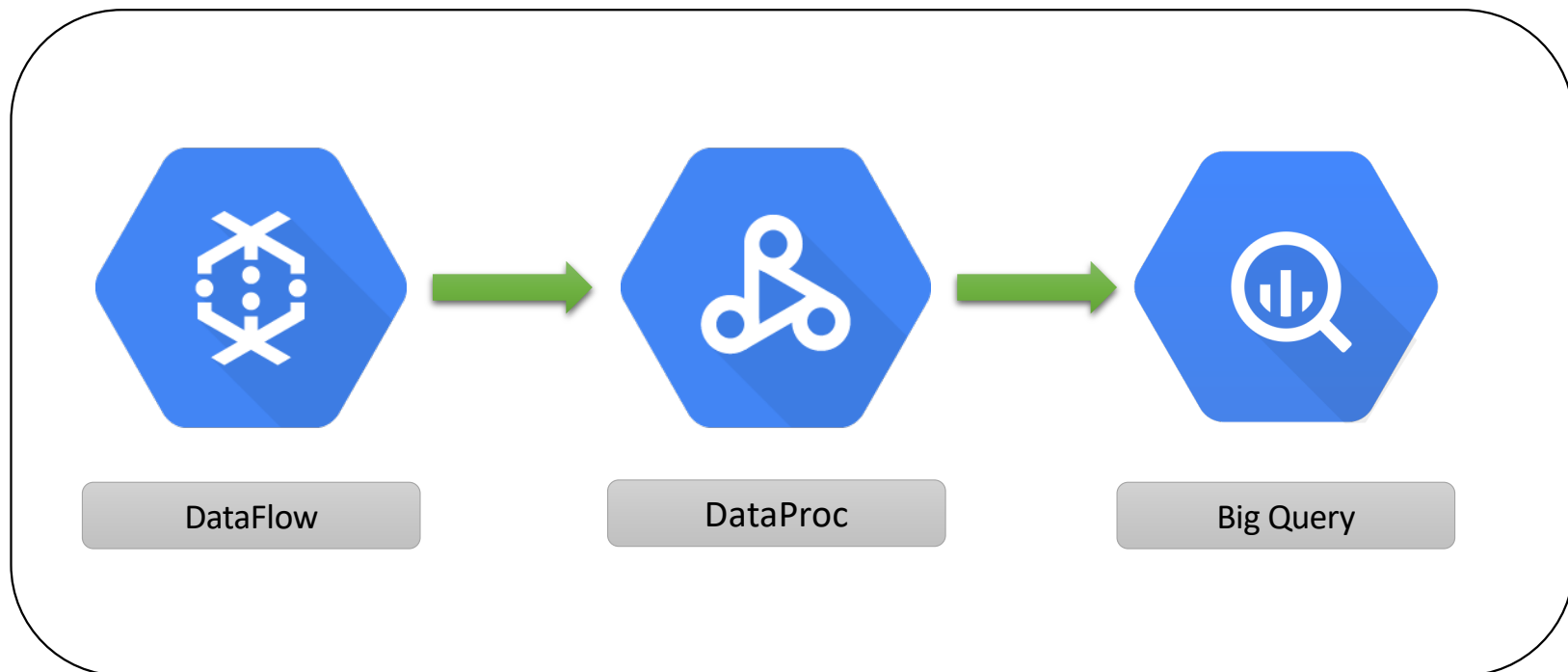


Vignesh V
Engineer
Presidio

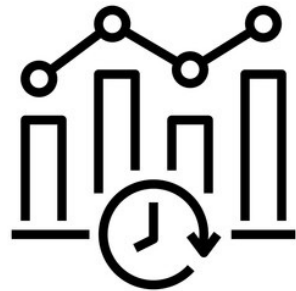
Not a Traditional Trilogy



Traditional Trilogy



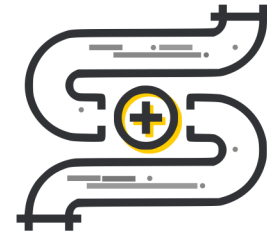
Why?



Real Time Data



Microservices

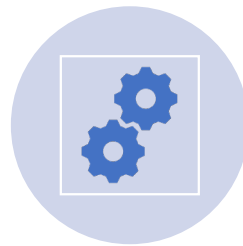


Data analytics
Pipeline

Cloud Pub/Sub



Cloud native Applications



Event-driven
architectures

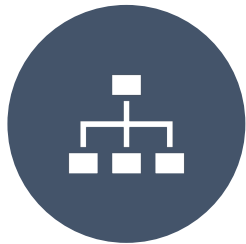


Real time Streaming



Messaging Systems

Cloud Run



Fully Managed



Stateless Application



Request Based Pricing

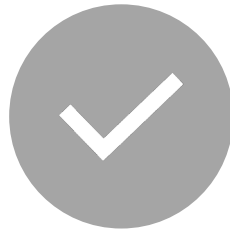


Scales Down To Zero

Big Query



DATA ANALYTICS



INTERACTIVE
ANALYSIS



HANDLES
PETABYTES OF DATA



MACHINE
LEARNING

Usecases

Event Driven ETL



Handle application events via
Cloud Pub/Sub



Transform data with Cloud Run



Load transformed data into
BigQuery

Clickstream Analysis



Capture real-time user interactions with Cloud Pub/Sub



Filter and analyse trends with Cloud Run



Persist analysed data in BigQuery for user segmentation.

Log Processing Analytics



To capture Data of resources being created from cloud logs



Filtering out the necessary details



Storing it into BigQuery



Visualizing data using Data Studio/Grafana



Demo

dashboards > Cloud User Details

Search or jump to...cmd+k

+

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Add

📄⚙️🕒 Last 6 hours 🔍

| | ResourceName | PrincipalEmail | Timestamp | TargetLink |
|---------|------------------------|---------------------|---------------------|----------------------|
| | namespaces/audit... | prakashd@cloudk... | 2023-09-14T14:0... | |
| nfig... | brands/299999910... | admin@cloudkavin... | 2023-09-15T13:4... | |
| nt | projects/audit-logs... | admin@cloudkavin... | 2023-09-15T14:13... | |
| nt | projects/-/service... | admin@cloudkavin... | 2023-09-15T14:14... | |
| | projects/governan... | prakashd@cloudk... | 2023-09-14T12:05... | https://www.googl... |
| | projects/governan... | prakashd@cloudk... | 2023-09-14T13:0... | https://www.googl... |
| sion | namespaces/audit... | admin@cloudkavin... | 2023-09-15T12:09... | |
| ce | projects/audit-logs... | admin@cloudkavin... | 2023-09-15T11:06... | |
| ce | projects/audit-logs... | admin@cloudkavin... | 2023-09-15T11:18... | |
| ce | projects/audit-logs... | admin@cloudkavin... | 2023-09-15T11:18... | |

Resource Counts

| Resource Type | Count | Percentage |
|--------------------------|-------|------------|
| audited_resource | 3 | 30% |
| service_account | 2 | 20% |
| gce_instance | 2 | 20% |
| cloud_run_revision | 1 | 10% |
| client_auth_config_brand | 1 | 10% |
| cloud_run_job | 1 | 10% |

Q/A



Thank You!

