

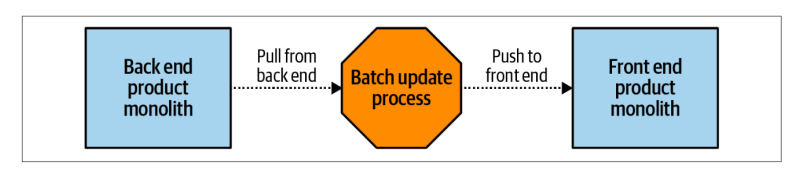
Adam Bellemare - Building Event-Driven Microservices

10. Basic Producer and Consumer (BPC) Microservices

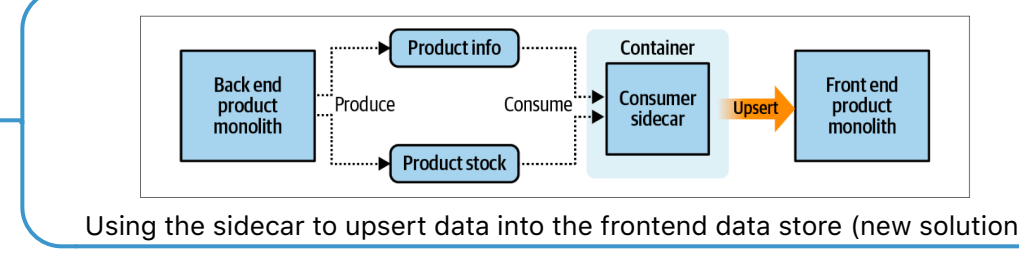
ingest events from one or more event streams, apply any necessary transformations or business logic, and emit any necessary events to output event streams

Where Do BPCs Work Well?

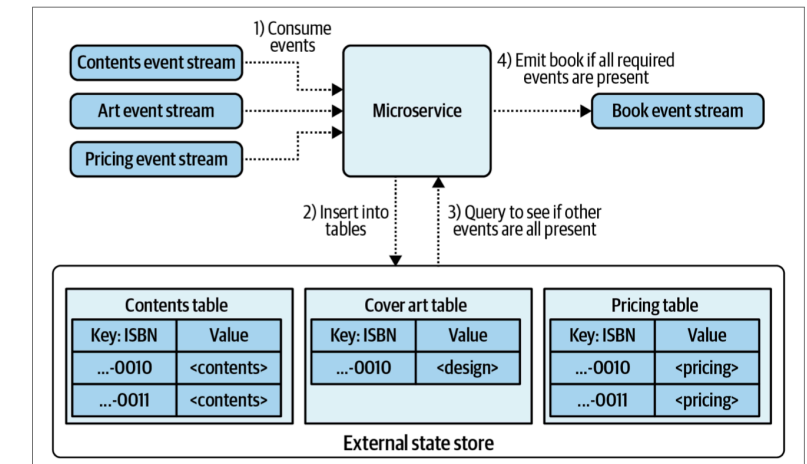
Integration with Existing and Legacy Systems



Scheduled batch between monoliths (previous solution)



Using the sidecar to upsert data into the frontend data store (new solution)



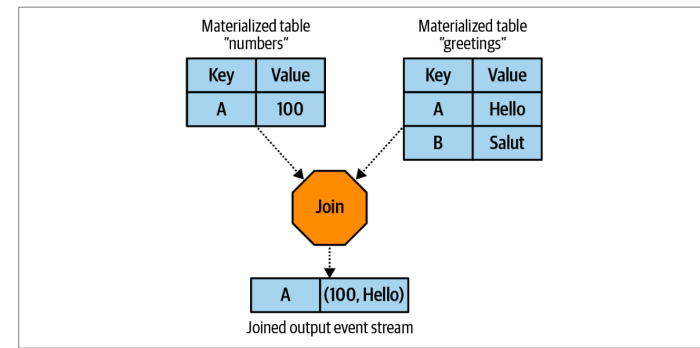
Gating the readiness of a book

Stateful Business Logic That Isn't Reliant Upon Event Order

When the Data Layer Does Much of the Work

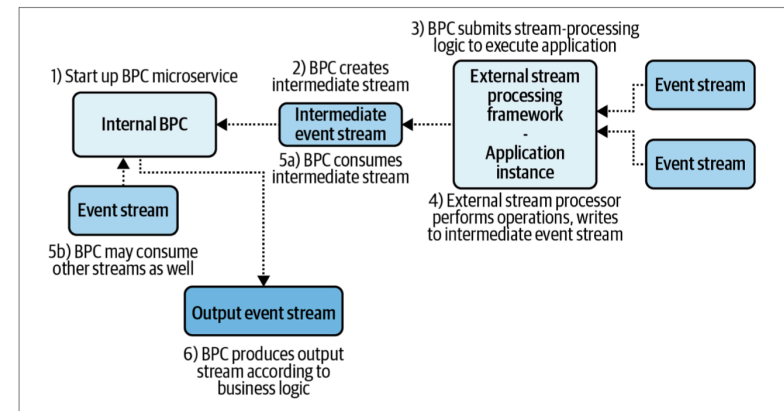
E.g. geospatial data store; free-text search; and machine learning, AI, and neural network applications...

Independent Scaling of the Processing and Data Layer



A typical outsourceable operation performed at scale by a stream-processing framework

Hybrid BPC Applications with External Stream Processing



A hybrid workflow showing an external stream-processing application sending results back to the BPC via an intermediate event stream