

Microservices patterns classified for the Paper Titled: Application of Microservices Patterns to Big Data Systems

| Category | Pattern |
|---|---|
| Data Management | Database per Service, Shared Database, Event Sourcing, Command and Query Responsibility Segregation |
| Platform and Infrastructure | Multiple service instances per host, External configuration store, Sidecar, Static content hosting, Computer resource consolidation |
| Communicational, Transactional, Logical | API gateway, Anti-corruption layer, Self Registration, Service Discovery, Competing consumers, Pipes and filters, Priority queue, Ambassador, Gateway aggregate, Gateway offloading, Aggregator, Backend for Frontend, API Composition, Saga transaction management, Gateway routing, Leader election |
| Fault Tolerance | Circuit breaker, Bulkhead pattern |
| Observability | Log Aggregation Pattern |

TABLE I: Microservices categorization