

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