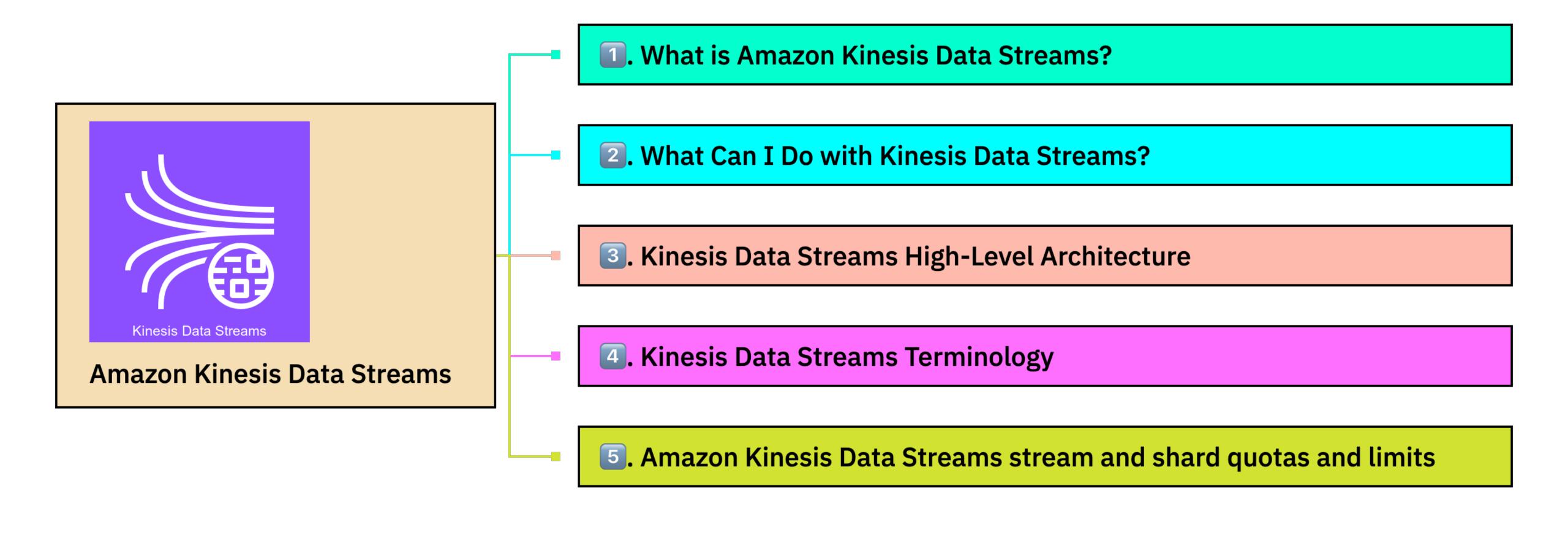
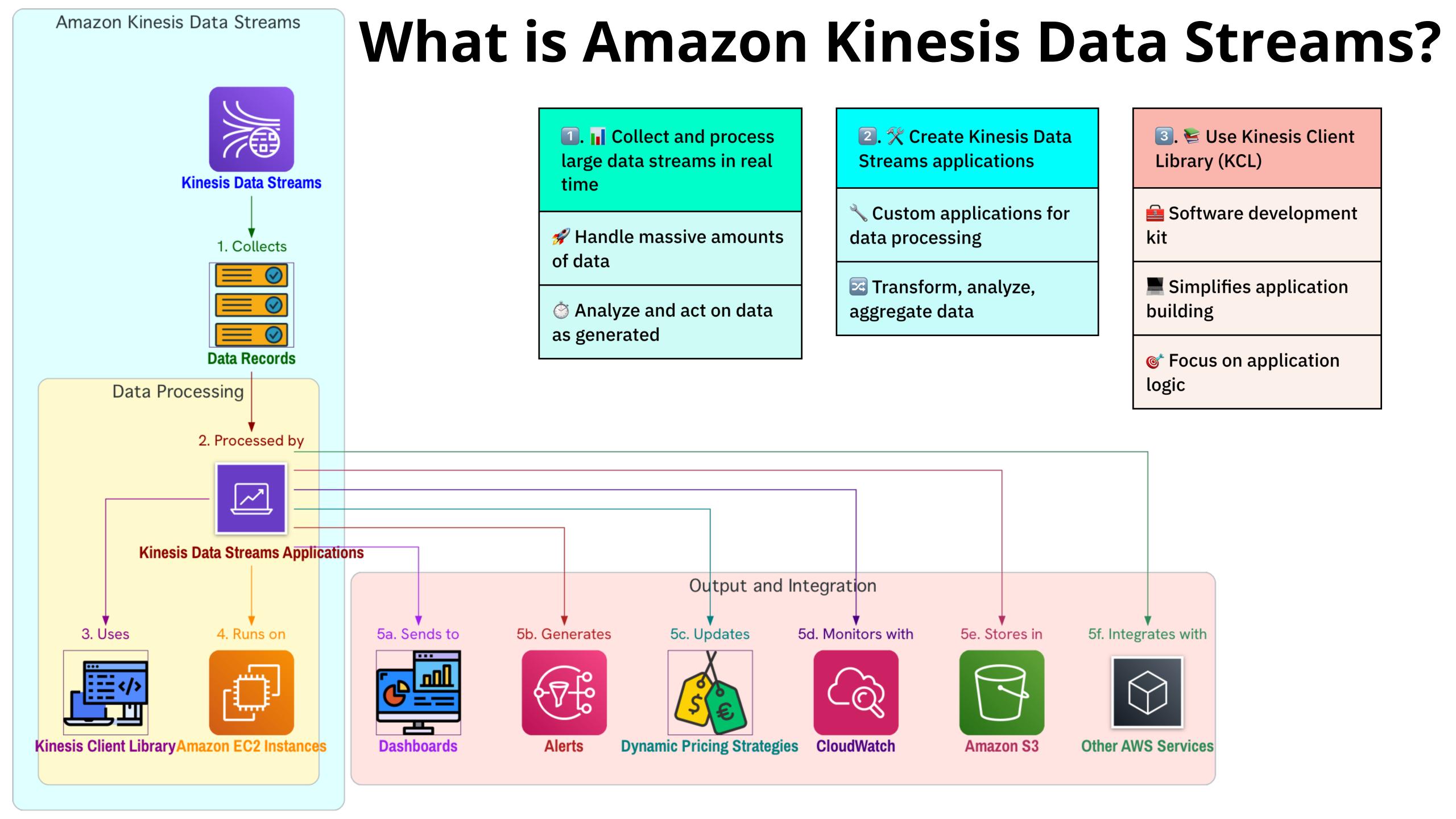
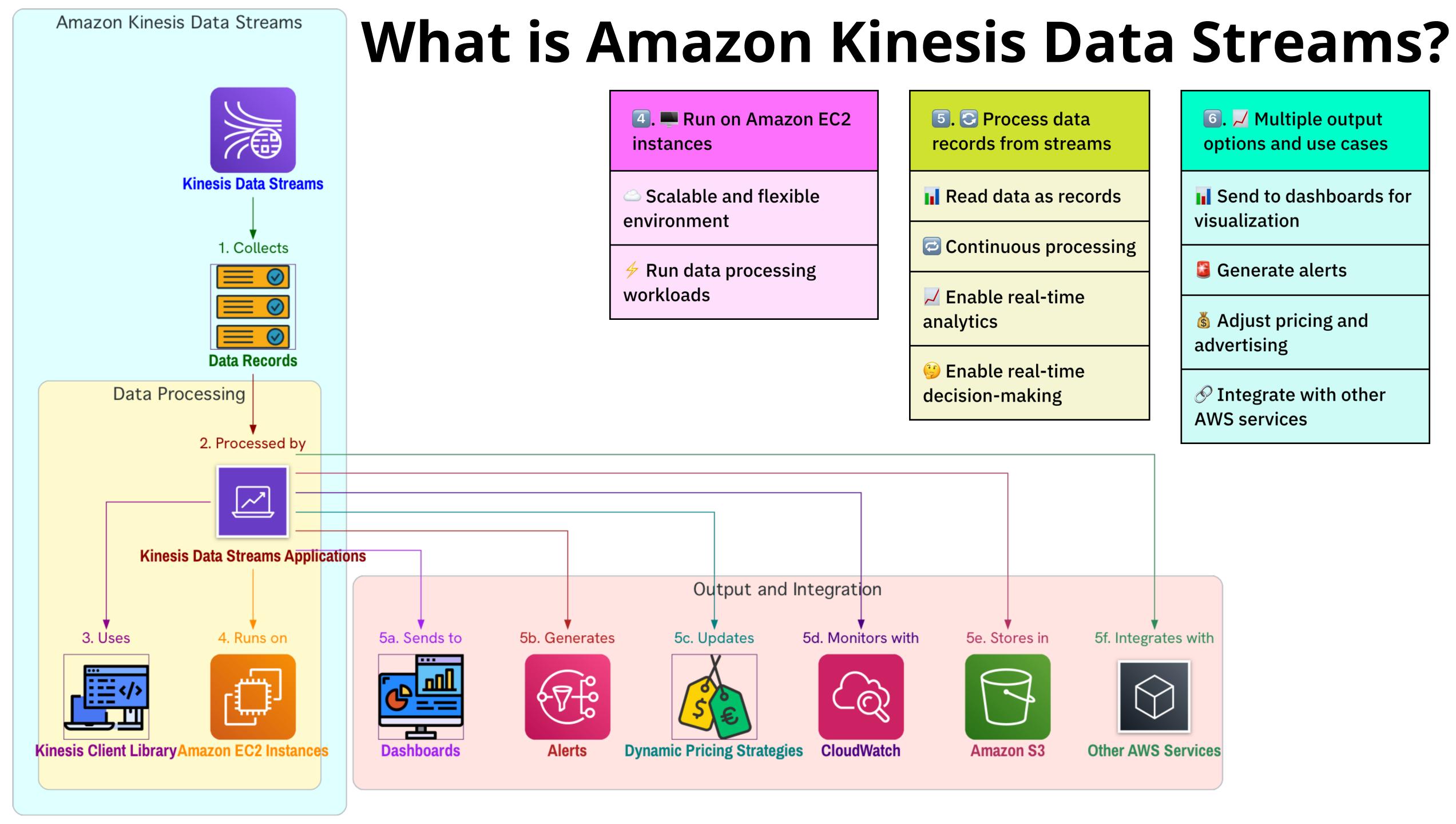


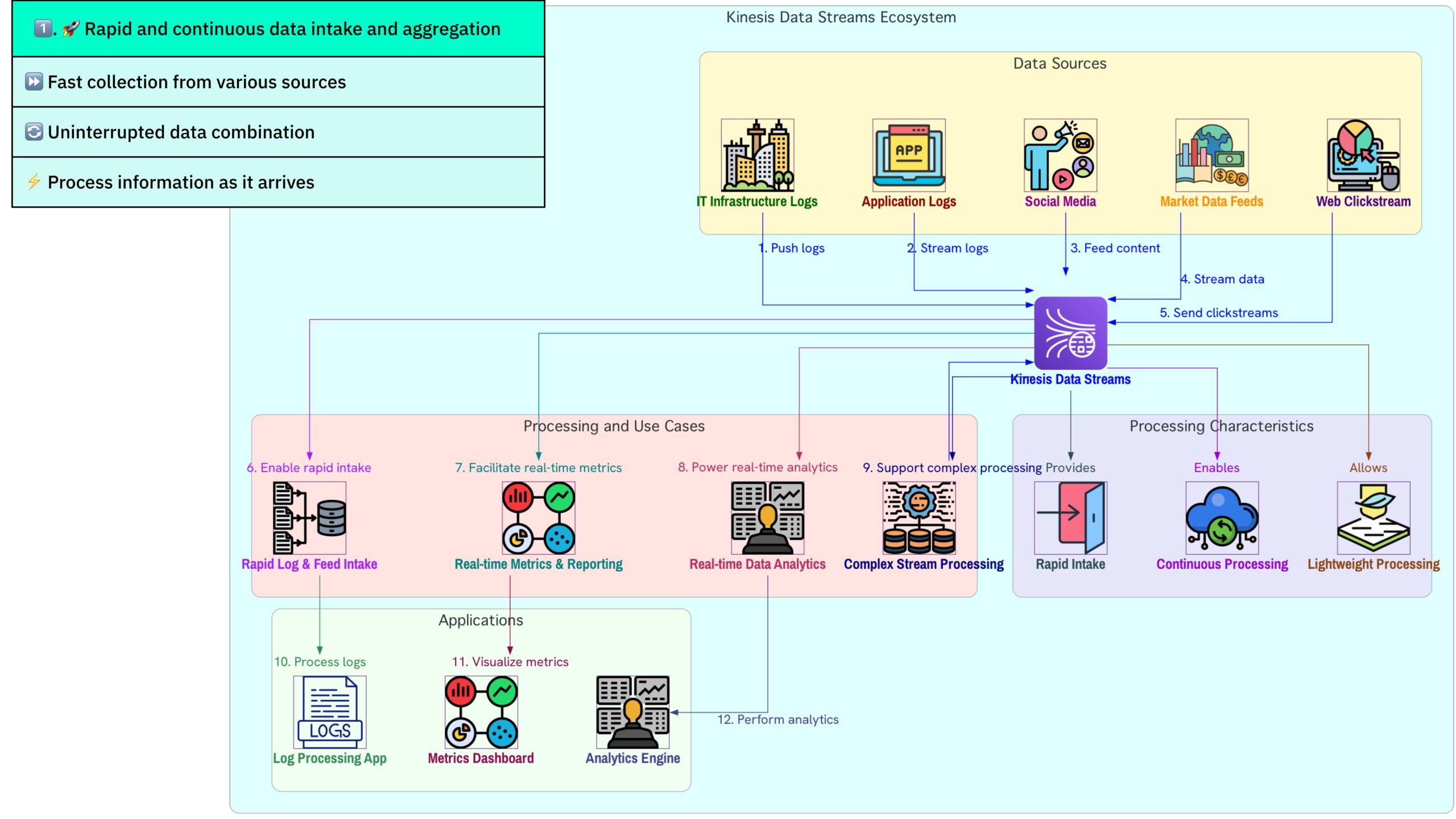
Amazon Kinesis Data Streams

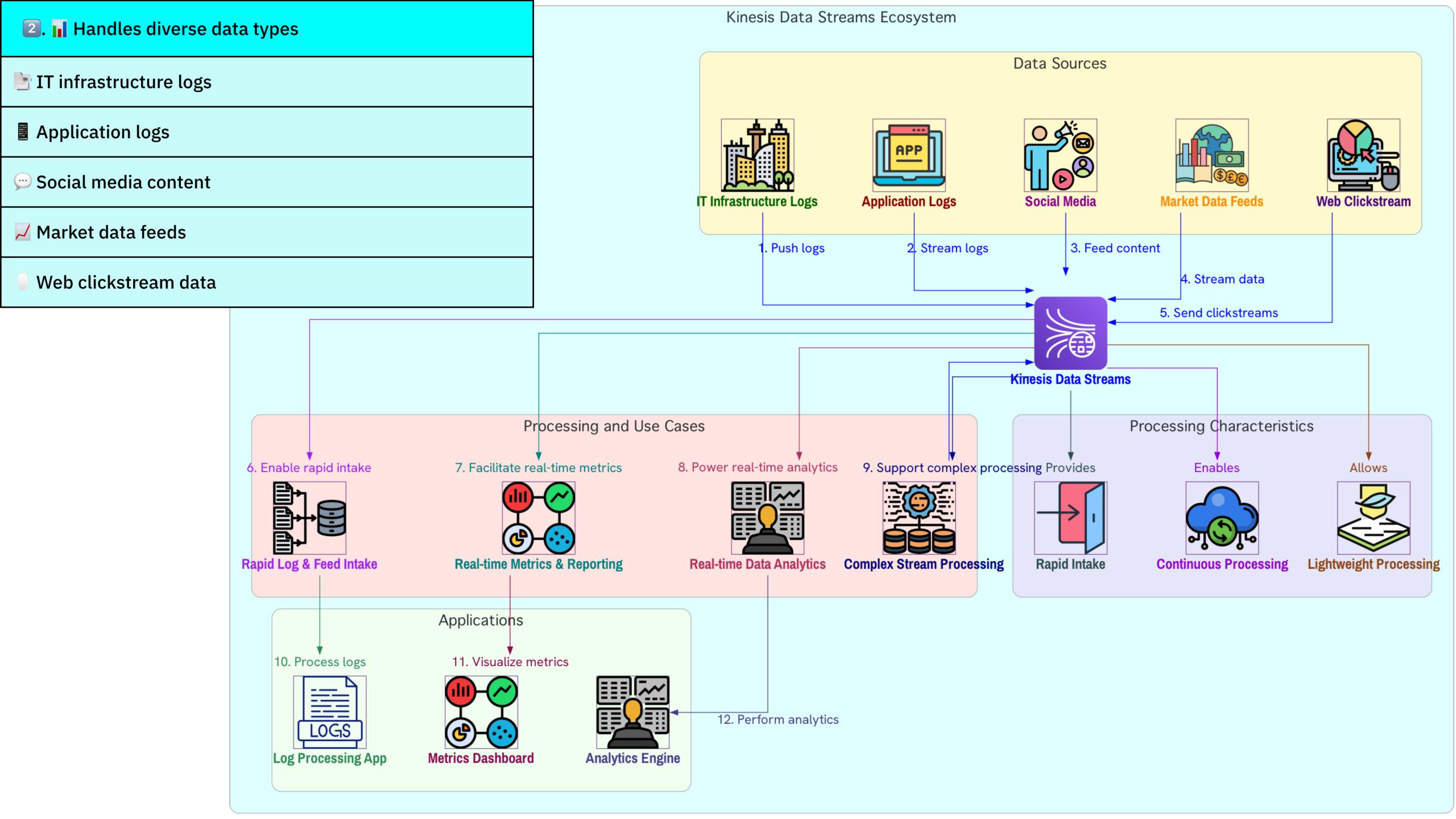
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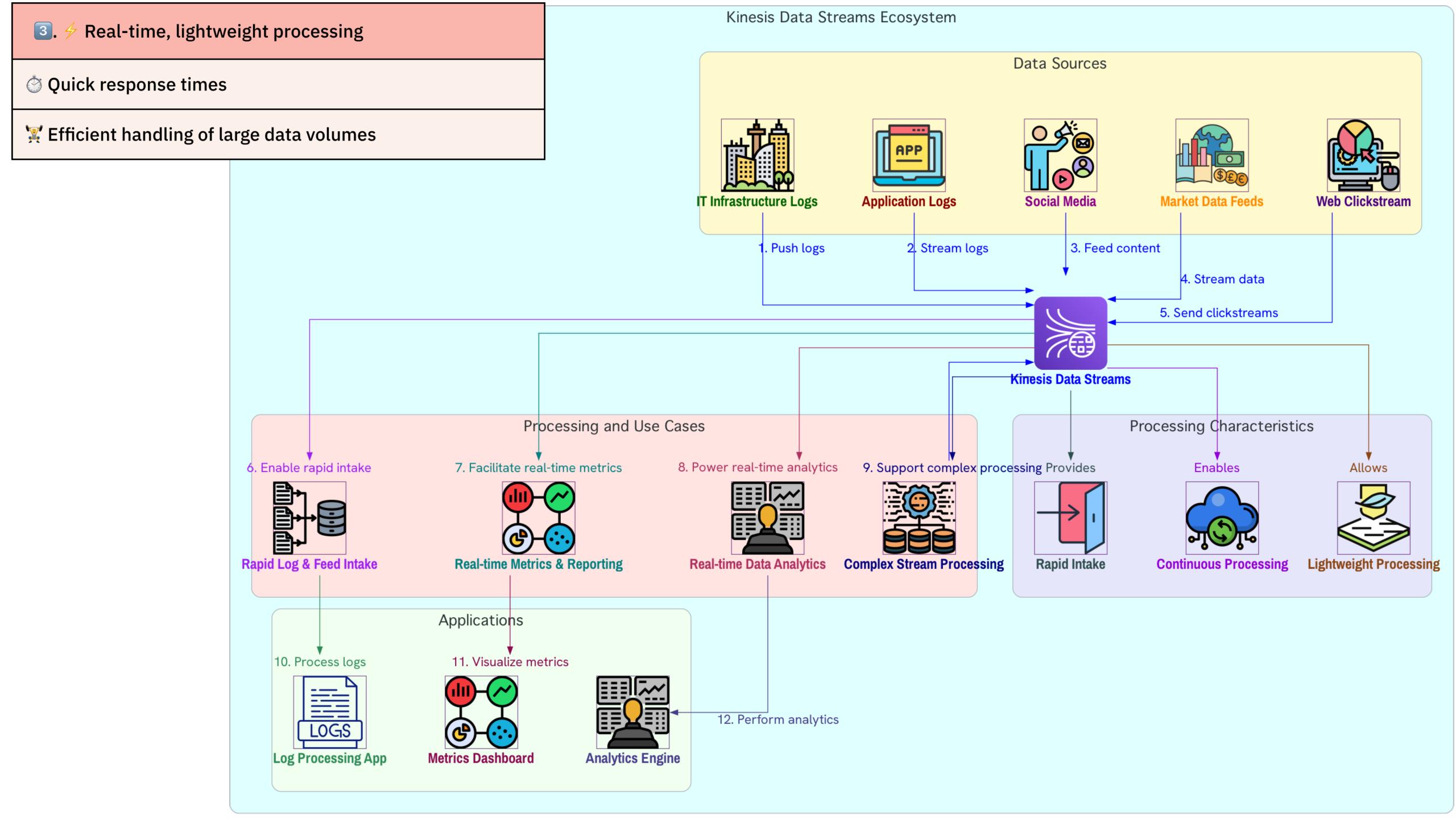


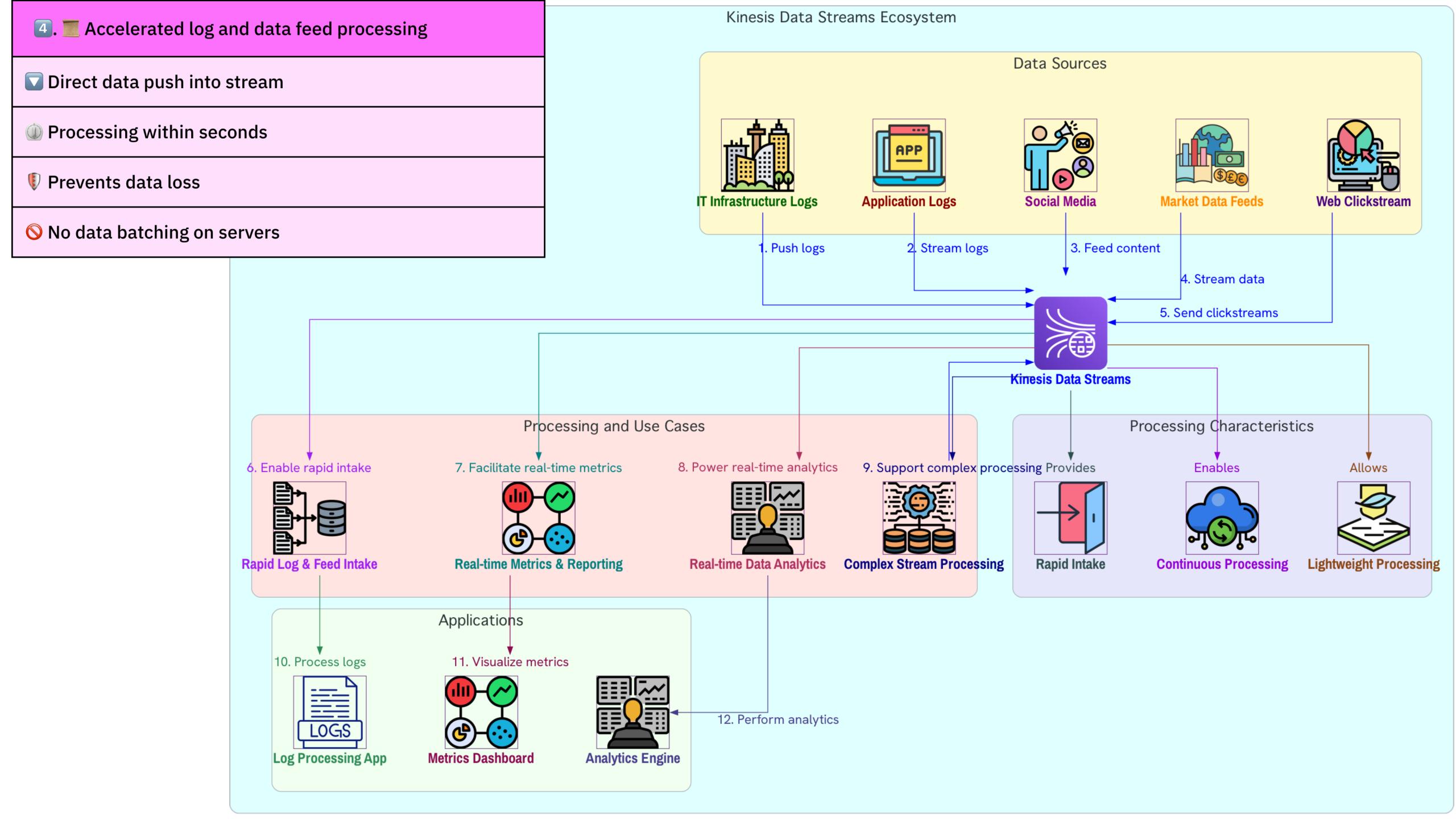


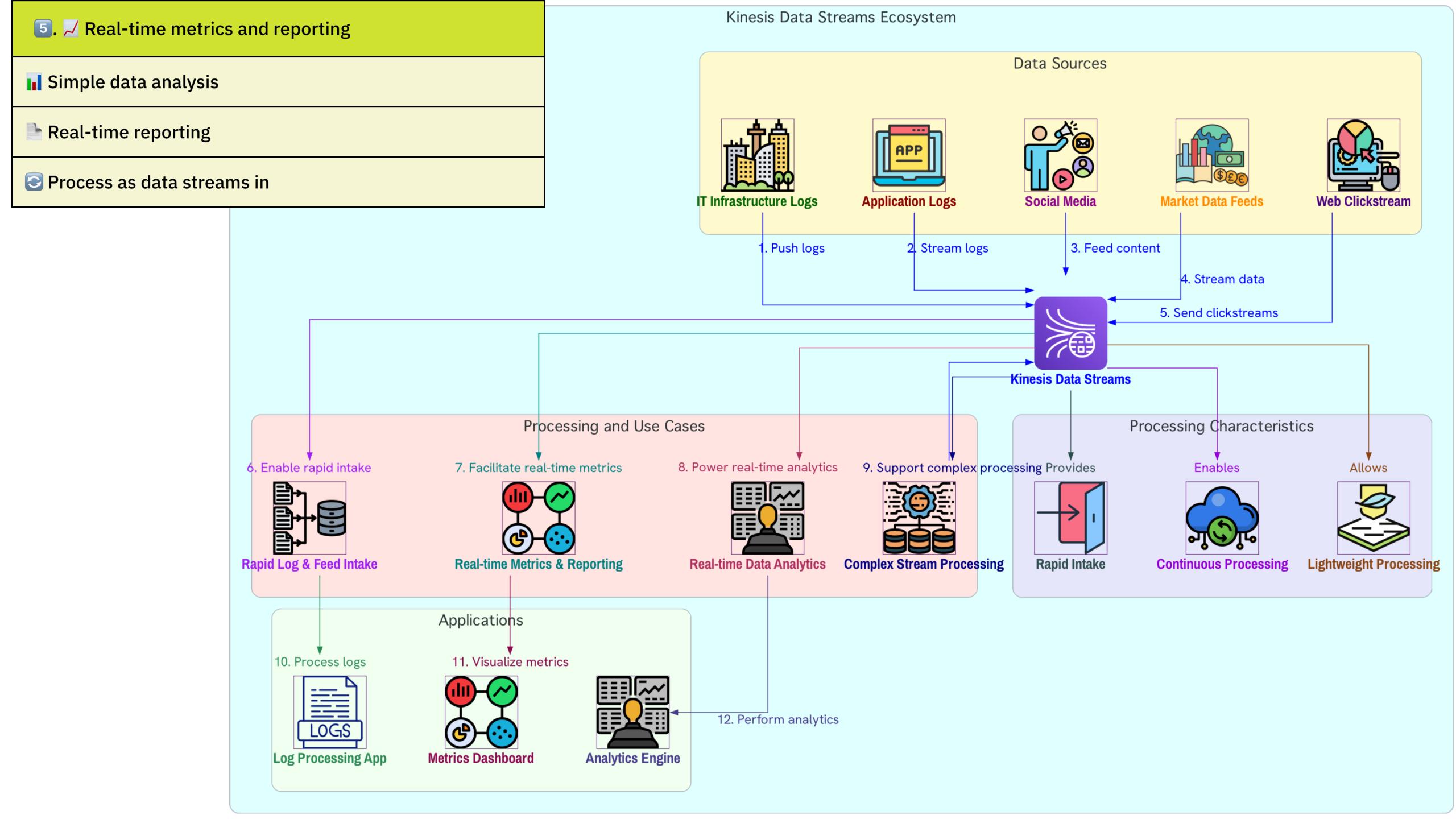


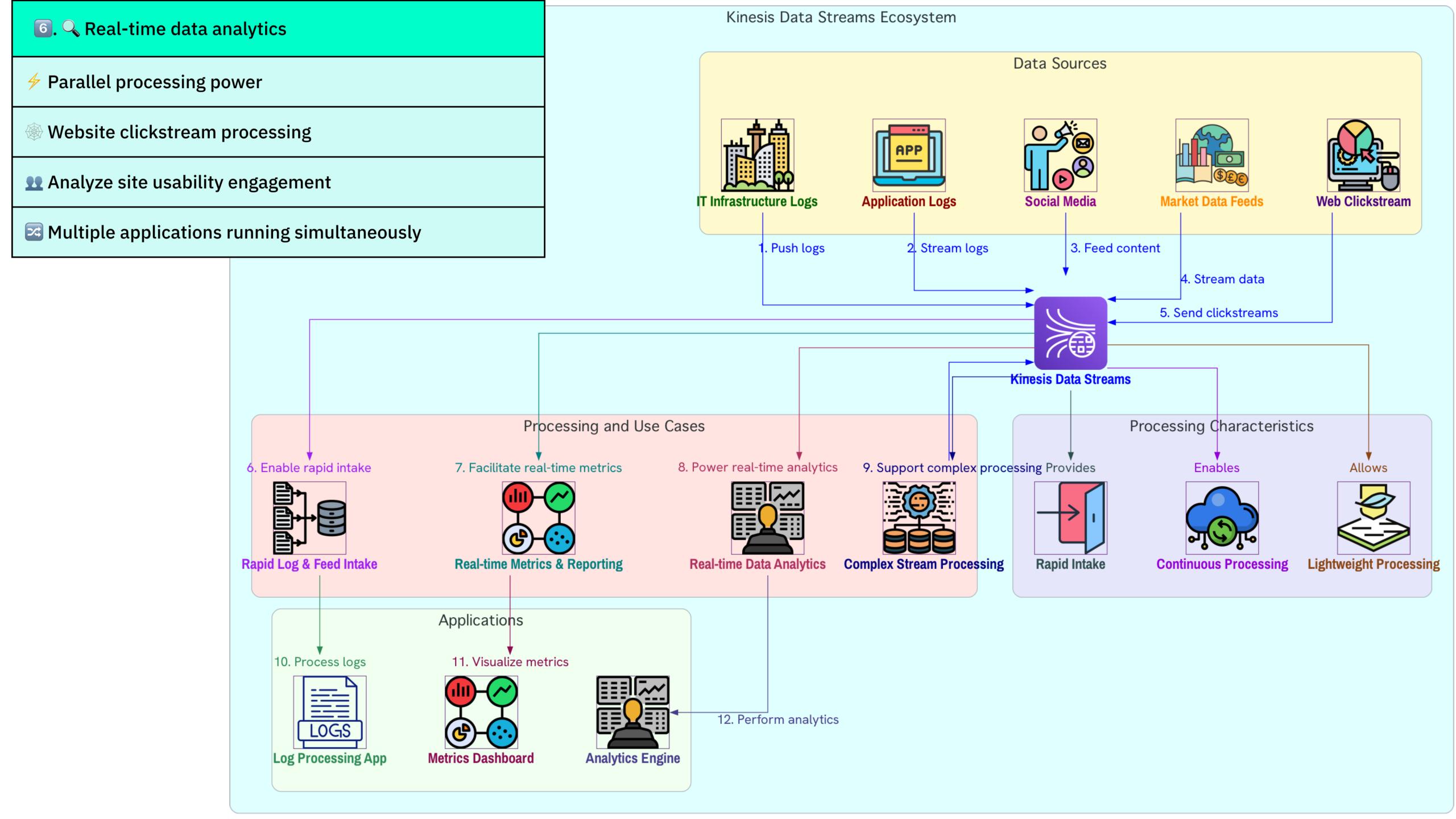


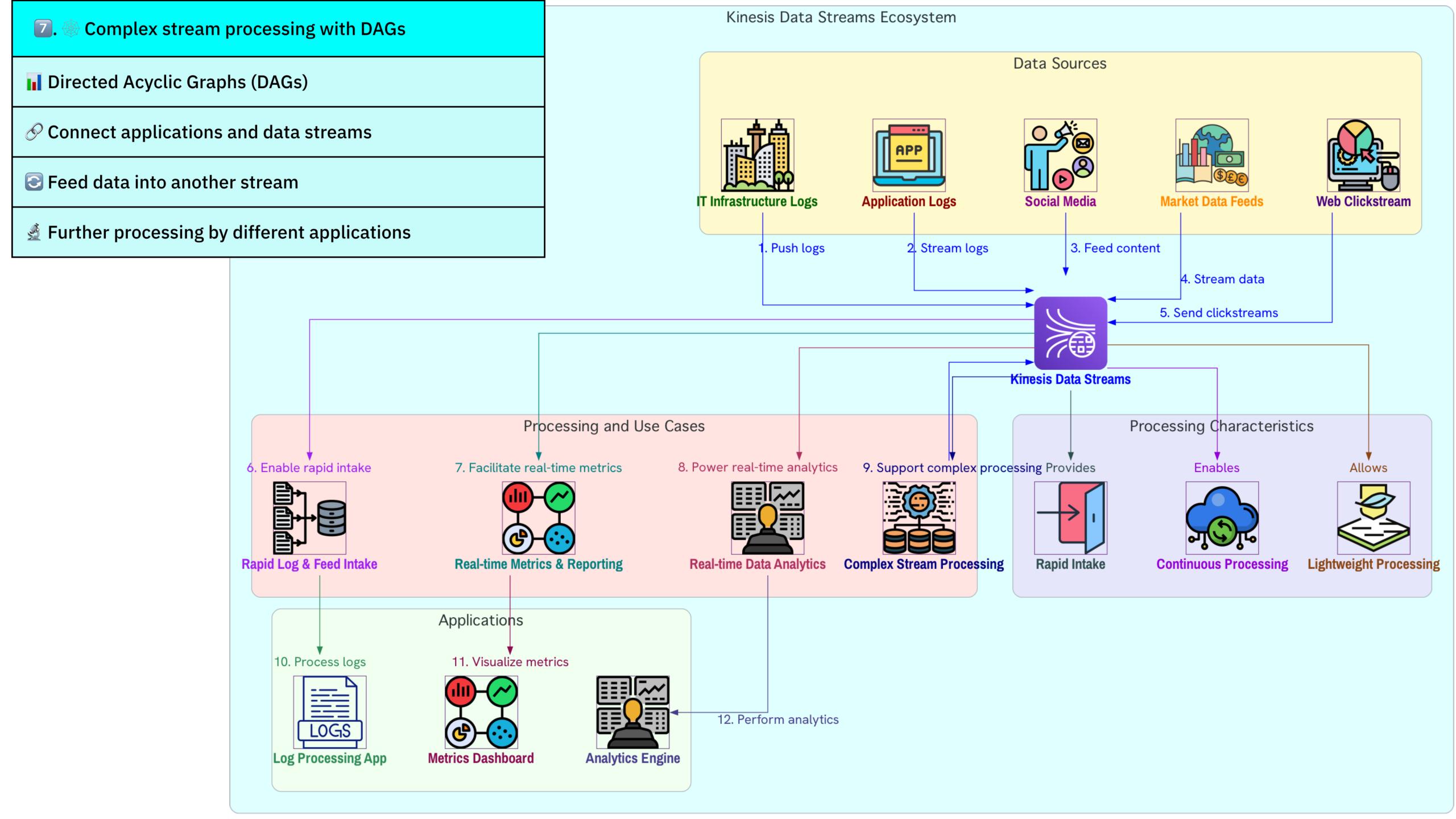


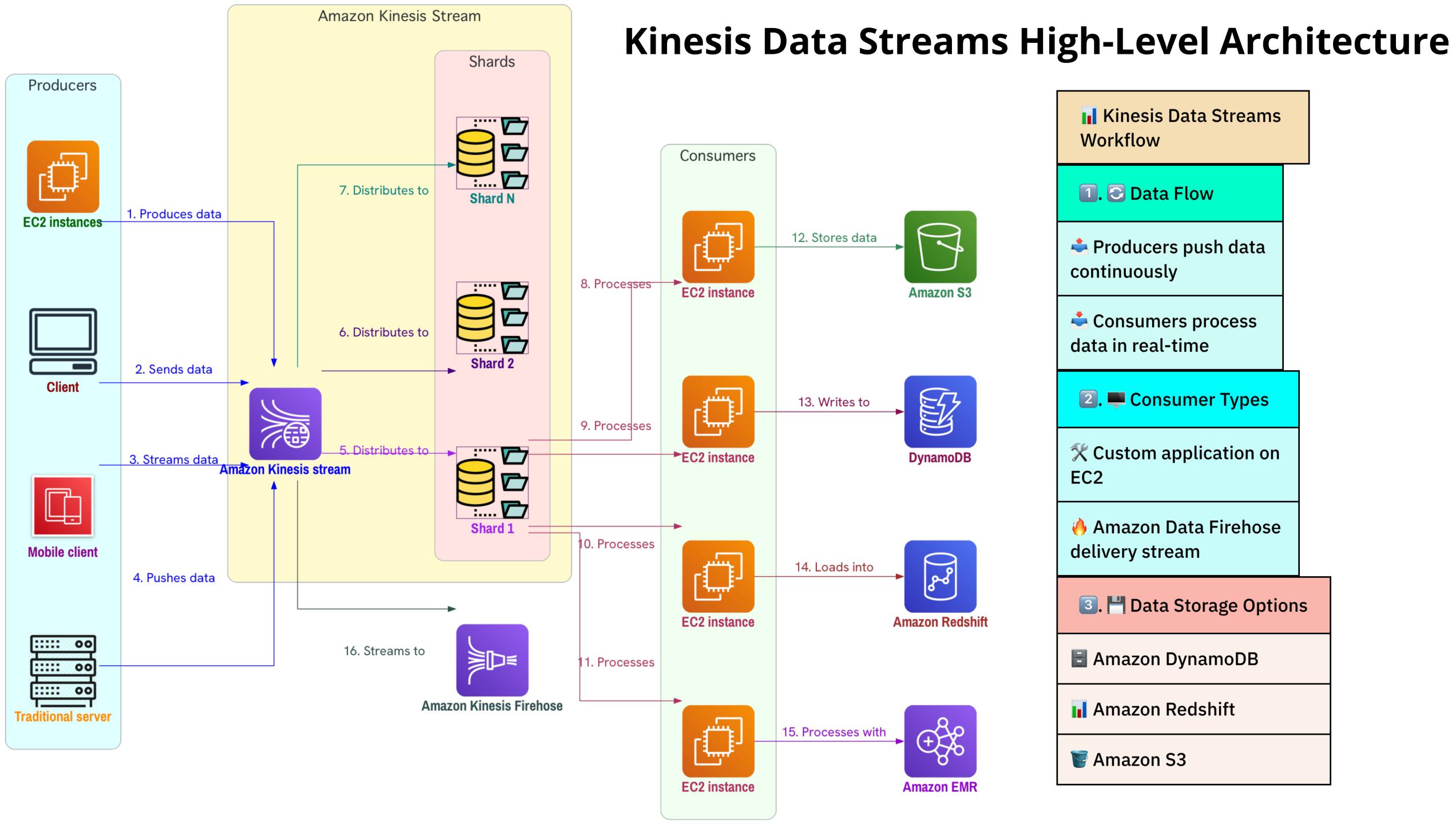




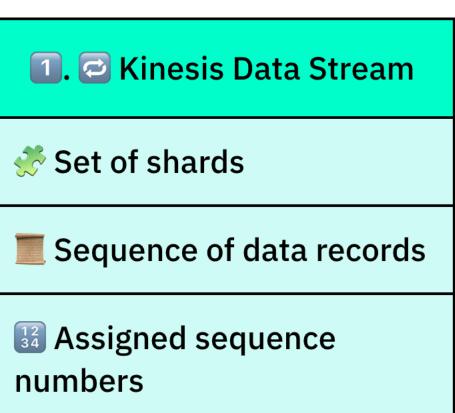


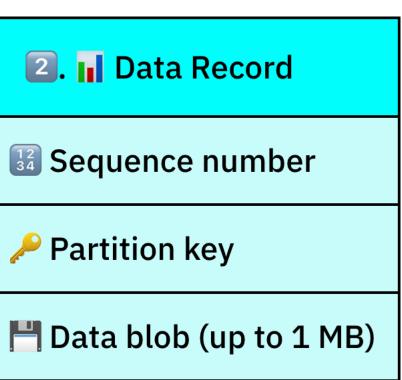


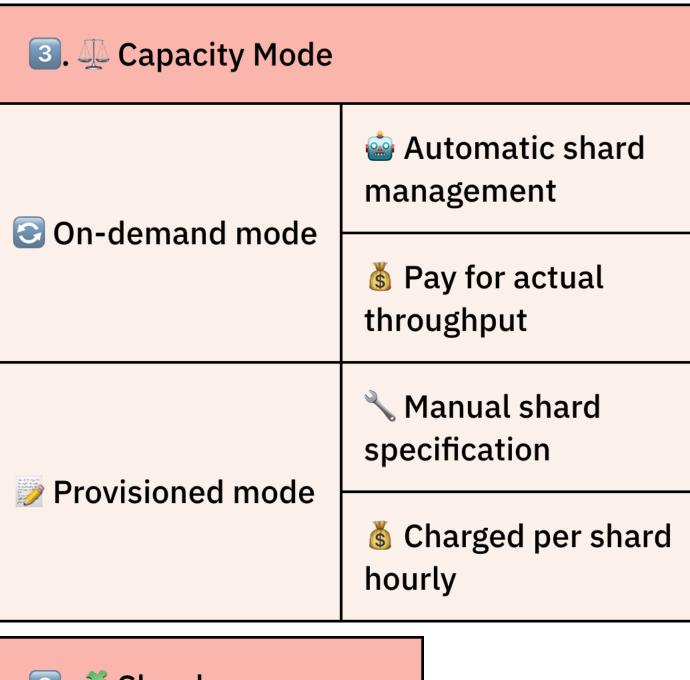


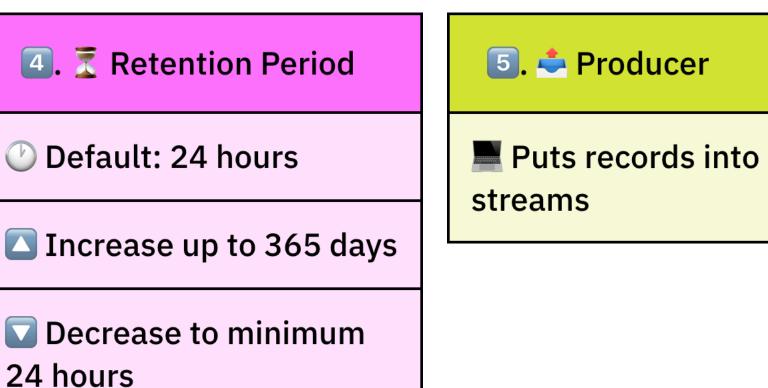


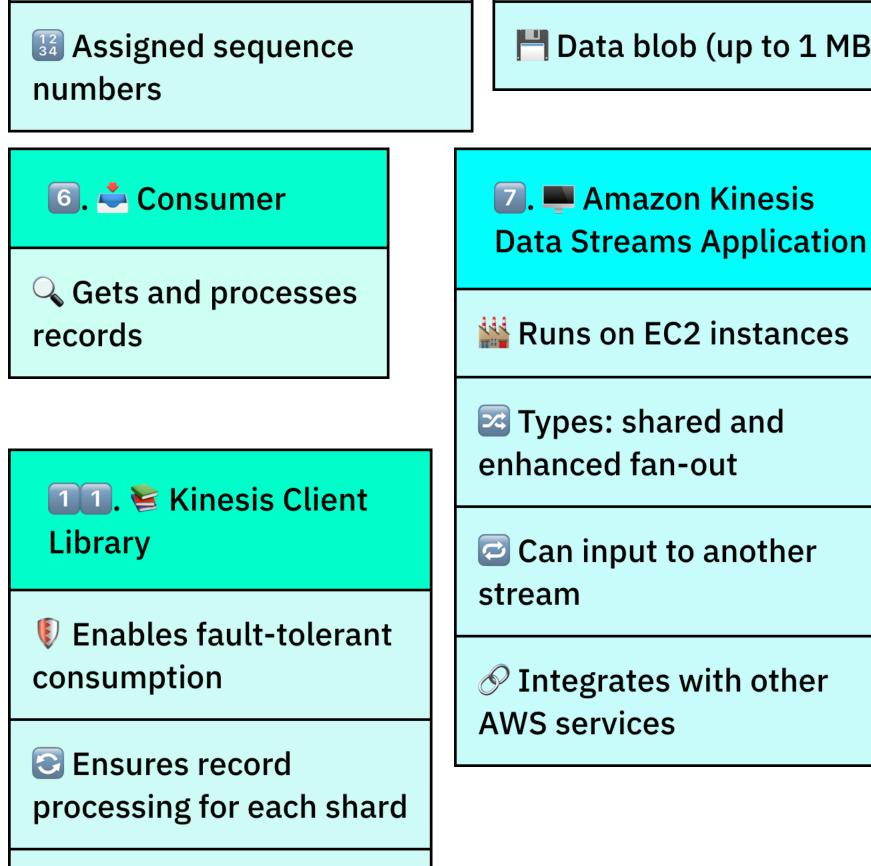
Kinesis Data Streams Terminology





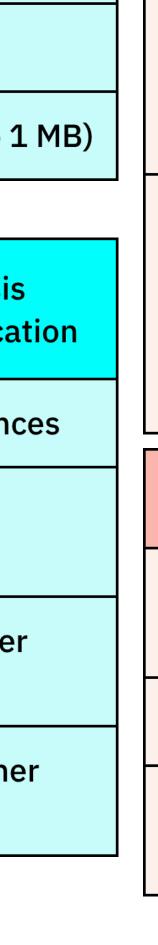


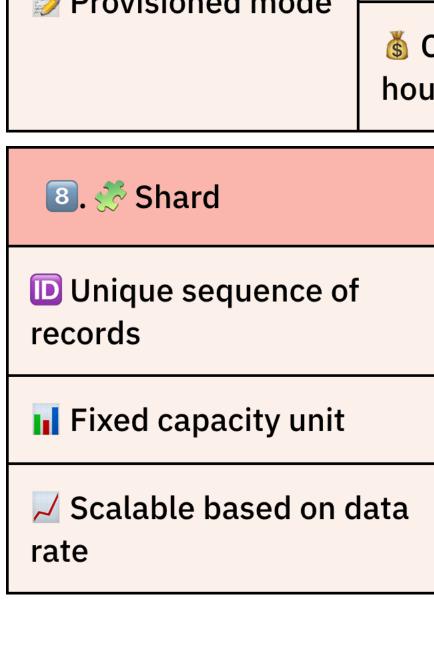


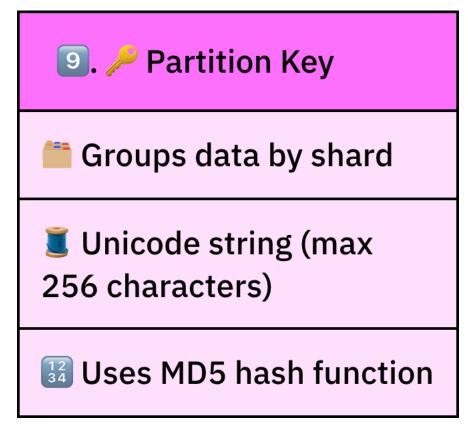


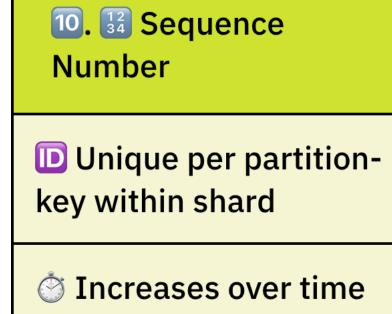
Uses DynamoDB for

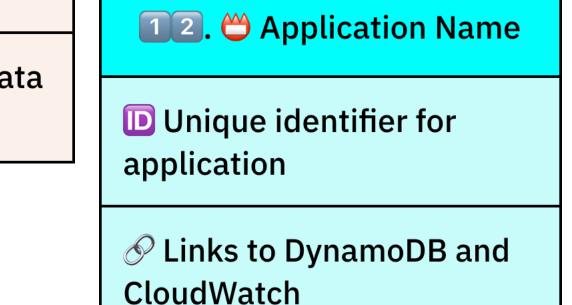
control data

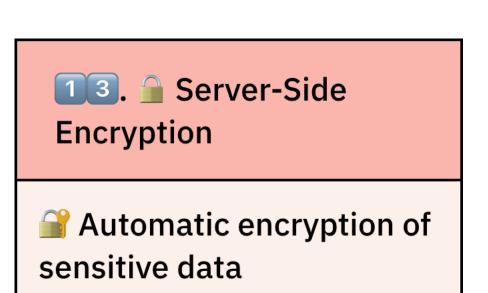












Amazon Kinesis Data Streams stream and shard quotas and limits

Quota	On-demand mode	Provisioned mode
Number of data streams	Default: 50 streams (can be increased via support ticket). No upper quota.	No upper quota
Number of shards	No upper limit. Auto-scales based on data volume and traffic.	No upper limit. Default: 500 shards (US East, US West, Europe), 200 shards (other regions). Can be increased.
Data stream throughput	Default: 4 MB/s write, 8 MB/s read. Scales up to 200 MB/s write, 400 MB/s read. Can be increased to 2 GB/s write, 4 GB/s read via support ticket.	No upper limit. Depends on number of shards. Each shard: 1 MB/s or 1,000 records/s write, 2 MB/s or 2,000 records/s read.
Data payload size	Up to 1 MB before base64-encoding	Up to 1 MB before base64-encoding
GetRecords transaction size	Up to 10 MB or 10,000 records per call from a single shard	Up to 10 MB or 10,000 records per call from a single shard
Data read rate per shard	Max 2 MB/s via GetRecords	Max 2 MB/s via GetRecords
Number of registered consumers per data stream	Up to 20 registered consumers	Up to 20 registered consumers
Switching between modes	Twice within 24 hours	Twice within 24 hours

