AWS Kinesis

- Services
  - Streams
    - broken into shards
    - Pushs output to services
      - DyanamoDB
      - S3
      - RedShift
    - 7 day possible retention
  - Firehose
    - Automated Service
      - no scaling needed
      - management by AWS
    - Push to S3
      - Copy to Red Shift
      - ElasticSearch
    - Use lambda
    - No retention
    - Analyse data
  - Analytics
    - Run queries on Stream or Firehose
    - Push to services
      - S3
      - ElasticSearch
      - Redshift
    - Optional
- Use Cases
  - Stock prices
  - Event data
  - Website activity
  - IOT
- Streaming data Platform
  - Make sense for a business function
  - Continuous feed
  - lots of data sources
  - Small data size (KB)
- Conceptual
  - Take business data
  - Multiple sources
  - Store as required
    - Retention
    - No Retention
  - Make sense of data
    - Analyse
    - Queries
  - Export to other service
- Architecture
  - Producers
    - Data making devices
  - Consumers
    - Take data from stream
    - makes sense of data
      - Transforms useful
      - Analysis to meaning
      - Prediction

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