Core Working Group Meeting Notes (7-May-2020)

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CH	Colin Hutchinson (Kong)	
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- Redis Memory Limit
    - Discuss how/whether this is configurable
    - What happens when the process runs out of memory?
        - An error on write operations is returned
    - How much memory does the process allocate?
        - By default ALL
        - This includes virtual memory if configured, accessing data swapped to disk can cause latency
    - Do we need additional setup content/guidance in the docs?

- - - ANDRE: Will provide content, brief pre-amble with links to Redis-provided content
  - Redis does persist to disk, default behavior in EdgeX snapshots data based on time/data volatility (key changes)
    - There are additional strategies for snapshotting but the above is default
  - Redis doesn't operate on persisted data, only data that's in memory. Persistence is there to avoid data loss.
  - What happens when system is restarted?
    - Redis will load data from pre-existing .rdb file if it exists
  - Snapshot frequency is configurable either by time or # of keys changed
    - Snapshot versus append-only
      - Use both for ultimate data protection during recovery
  - Clean-up operations
    - Vanilla EdgeX can facilitate clean-up via scheduler calling core-data, events older than 7 days
    - Core-data DELETE endpoint w/specified age
      - Example: delete all events older than 24 hours
- Redis secure compose timing issue (Lenny)
  - Issue will be submitted, Andre will triage. May be specific to resource constrained environments.
- Lingering Geneva Milestone items
  - Review https://github.com/edgexfoundry/edgex-go/milestone/5