

Group 1 Report for URL Shortener Project in CBDP

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February 8, 2024

System Design

Leader Crash Handling

- *How long does it take to elect a new leader?*
not so long
- *Measure the impact of election timeouts. Investigate what happens when it gets too short / too long.*
something happens

Node Workload

- *How many resources do the nodes use?*
not so many
- *Where do inserts create the most load?*
somewhere
- *How many nodes should one use for this system? What are their roles?*
not so many

Latency Analysis

- *Generating a new short URL.*
Analyze where your system spends time during this operation
- *Lookup to get the URL from a short id.*
measure and explain

Scalability Analysis

- *Measure the latency with increased data inserted, e.g., in 10% increments of inserted short URLs.*
measure and explain
- *Measure the system performance with more nodes.*
measure and explain