

Cost Analysis

§4 – Cost Matrix Monthly (D2 / AC#2)

Load assumptions per forged prompt D2: 200 queries/day × 30d = 6,000 queries/month;
Stop-hook extraction: ~10 sessions/day × 30d = 300 extraction events.

Scenario (a): \$30 combined Pillar #9 + L3 (chip-huyen SC-2 interpretation)

L3 max = \$30 – \$16.70 (Pillar #9 incremental) = ****\$13.30/month L3 ceiling****.

Framework	compute	vector_storage	LLM_inference	embedding	egress	hosted_tier	TOTAL
Mem0 self-hosted	\$0 (ANVIL local)	\$0 (Qdrant local)	\$0 (Ollama qwen3:8b local)	\$0 (bge)	\$0 (no embedding)	\$0	N/A
claude-mem	\$0 (Node.js local)	\$0 (filesystem)	\$0 (no LLM)	\$0 (no embedding)	\$0	\$0	N/A
mem-search	NOT VIABLE	–	–	–	–	–	–
Memipalace	NOT VIABLE	–	–	–	–	–	–
LightRAG-resurrect	\$0 incremental	(vm-ai-lightrag already running ~\$30/mo in existing budget)					

EVIDENCE (Mem0 cost \$0): /Users/makinja/system/mem0/config.py lines 17-21 → QDRANT_HOST=localhost

EVIDENCE (LightRAG incremental): /Users/makinja/system/specs/agentik-os-pillar9-runtime-2026-05-

EVIDENCE (CEO \$30 ceiling): /Users/makinja/.claude/projects/-Users-makinja/memory/project_99063-

EVIDENCE (Pillar #9 incremental \$16.70): /Users/makinja/system/specs/agentik-os-pillar9-runtime-

****Combined Pillar #9 + L3 total (scenario a, Mem0 winner):****

- Pillar #9 incremental: \$16.70/month

- L3 Mem0 incremental: \$0/month

- ****Total: \$16.70/month – under \$13.30 L3 ceiling AND under \$30 combined ceiling****

Scenario (b): \$30 L3-only incremental, Pillar #9 separate

Mem0: \$0/month incremental (already deployed). \$30 L3 budget entirely unspent.

LightRAG-resurrect: ~\$1/month incremental. Also fits.

Scenario (c): \$40-50 combined ("može više" per CEO Q3)

At \$40-50 combined, all 3 viable frameworks remain inside envelope. The question is effort and capability, not cost. This scenario changes nothing about the winner selection.

****CEO Decision Item:**** See §11, item #1.

Revision #2

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