

Phase 3 Tasks

Task ID	# Phase	Checkpoint ID	Section	Task	Notes	Area	Com
P3-A-001	3	P3-A	0) Conventions	Redis keys (additions for Phase 3):		Standards	
P3-A-002	3	P3-A	0) Conventions	On-chain strategy: Confirm the target EVM L2 for ReFiN (e.g., Base / OP Mainnet / Arbitrum) and Ethereum L1 for anchoring.		Standards	
P3-A-003	3	P3-A	0) Conventions	Hashing algorithm: Standardize Phase-3		Standards	

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				has hing ; defa ult SHA -25 6 with opti on to swit ch to kec cak 256 via conf ig (mu st be con sist ent across Writ er, Buil der, Expl orer).			
<u>P3-</u> <u>A-</u> <u>004</u>	3	P3-A	1) Google Cloud Project & Networking	Egre ss allo w- list (upd ates):		Infra	
<u>P3-</u> <u>A-</u> <u>005</u>	3	P3-A	1) Google Cloud Project & Networking	GCS bu cket (upd ates): Cre ate per- env Audi t Prei		Infra	

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				mag es bu cket; ena ble obje ct ver sion ing and rete ntio n. (Exp lorer serv es reda cted prei mag es from GCS)			
P3- A- 006	3	P3-A	2) Data Stores — MongoDB Atlas	Appl y Clou d Spa nner Pha se-3 DDL and verif y tabl es exist : audi t_le aves ,, mer kle_i nter vals, refin _roo ts, l1_a nch ors, anc	Data Infra		

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				hor_ que ue, anc hor_ runs , expl orer _ind ex			
P3-A-007	3	P3-A	2) Data Stores — MongoDB Atlas	Key inde xes:		Data Infra	
P3-A-008	3	P3-A	3) Security & IAM	Serv ice acc ount s (ne w): `sa-audit- writer`, `sa-amer kle-build er`, `sa-anc hor-job`, `sa-refin - inde xer`, `sa-expl orer - api`.		Security	
P3-A-009	3	P3-A	3) Security & IAM	Lea st-privi lege role s:		Security	

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P3-A-010	3	P3-A	3) Security & IAM	Secrets (new):		Security	
P3-A-011	3	P3-A	4) Pub/Sub Event Bus	Topics (updates): Create 'audit.event' (if not already present).		Messaging	
P3-A-012	3	P3-A	4) Pub/Sub Event Bus	Subscriptions: Add Audit Writer subscriber with DLQ; ordering by suitable shared key.		Messaging	
P3-A-013	3	P3-A	4) Pub/Sub Event Bus	Producers modifications: Ensure Risk Engine, Execution		Messaging	

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				Gate way, Trad e Man ager publ ish to 'aud it.ev ' at key stat e tran satio ns.			
P3- A- <u>014</u>	3	P3-A	5) CI/CD & Runtime Configuration	Re posi tory: Add serv ice dire ctori es: 'aud it- writ er/', 'mer kle- buil der/ , 'anc hor- job/' , 'refi n- inde xer/' , 'exp lorer - api/' .		CI/CD	
P3- A- <u>015</u>	3	P3-A	5) CI/CD & Runtime Configuration	Sm art cont rac ts: Add 'con		CI/CD	

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				tract s/ref in/' for Audi tReg istry (and libs) ; conf igur e Har dhat /Fou ndry depl oys per env (cha in IDs, sub mitt er role) .			
<u>P3- A- 016</u>	3	P3-A	5) CI/CD & Runtime Configuration	Pipe lines : Buil d & depl oy Clou d Run serv ices ; com pile & depl oy cont rac ts to the cho sen L2; pro mot e via	CI/CD		

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				stag ed env s.			
P3-A-017	3	P3-A	5) CI/CD & Runtime Configuration	Runt ime config:		CI/CD	
P3-A-018	3	P3-A	7) Observability & SLOs	Das hbo ards :		Observability	
P3-A-019	3	P3-A	7) Observability & SLOs	Aler ts:		Observability	
P3-A-020	3	P3-A	7) Observability & SLOs	Pha se-3 SLO bas es:		Observability	
P3-A-021	3	P3-A	8) Component-Level Preflight (Phase 3) — On-Chain	Con tract s depl oye d: Audi tReg istry on L2; L1 Anc hor on Ethe reum.		On-chain	On-Cha
P3-A-022	3	P3-A	8) Component-Level Preflight (Phase 3) — On-Chain	Sub mitt er role: gran t Buil der' s wall et the sub		On-chain	On-Cha

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				mitt er role in Audi tReg istry .			
P3- A- 023	3	P3-A	8) Component-Level Preflight (Phase 3) — Audit Writer	Sub scri ptio n: serv ice sub scri bed to 'aud it.ev t' with DLQ .	Service	Audit W	
P3- A- 024	3	P3-A	8) Component-Level Preflight (Phase 3) — Audit Writer	Con fig: can onic aliza tion/ reda ctio n pol i cies in 'Au ditC onfi g'.	Service	Audit W	
P3- A- 025	3	P3-A	8) Component-Level Preflight (Phase 3) — Audit Writer	Create/ verifi y Clou d Spa nner inde xes per Pha se-3 DDL (ix_l eav es_	Data Infra	Audit W	

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				batc h, ix_le aves _cor r, ux_i nter vals _roo t, ix_in terv als_l 2tx, ix_in terv als_w in dow ,,, ux_r oots _roo t, ix_r oots _stat us, ix_l1 _tx, ix_l1 _stat us, ix_q ueu e_st atus ,,, ix_q ueu e_e nqu eue d, ix_r uns_ start ed, ix_e xplo rer_t tl)			
P3- A- 026	3	P3-A	8) Component-Level Preflight (Phase 3) — Merkle Builder	Use time /siz e win	Data Model	Merkle	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				dow rotat ion and Spa nner quer ies for new leav es (no cha nge stre ams)			
P3- A- <u>027</u>	3	P3-A	8) Component-Level Preflight (Phase 3) — Merkle Builder	Con fig: rotat ion poli cy (tim e/si ze), shar d poli cy.	Service	Merkle	
P3- A- <u>028</u>	3	P3-A	8) Component-Level Preflight (Phase 3) — Merkle Builder	Sec rets: L2 sub mitt er priv ate key load ed.	Service	Merkle	
P3- A- <u>029</u>	3	P3-A	8) Component-Level Preflight (Phase 3) — Anchor Job	Sch edul er: Clou d Sch edul er cad enc e (e.g. ,ever y 5-	On-chain	Anchor	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				15 min) .			
P3- A- 030	3	P3-A	8) Component-Level Preflight (Phase 3) — Anchor Job	Secr ets: L1 anc hor wall et key and CCI P conf ig pres ent.		On-chain	Anchor
P3- A- 031	3	P3-A	8) Component-Level Preflight (Phase 3) — Anchor Job	Clou d Spa nner tabl es: 'Anc hor Que ue', 'L1A nch ors', 'Anc hor Run s'.		Data Infra	Anchor
P3- A- 032	3	P3-A	8) Component-Level Preflight (Phase 3) — Explorer API	Con fig: L2/L 1 RPC end poin ts; GCS bu cket for reda cted prei mag es; Redi s rate limi ts.		API	Explore

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
P3-A-033	3	P3-A	9) Smoke Tests	Publ ish a test 'aud it.ev t' (e.g. , from Risk).		Validation	
P3-A-034	3	P3-A	9) Smoke Tests	Veri fy Writ er con sum es and crea tes 'Au ditL eav es'/' Audi tLog s' entr y with leaf/ chai n has hes.		Validation	
P3-A-035	3	P3-A	9) Smoke Tests	Ins er se ver al leav es; conf irm Buil der ope ns a batc h, then final izes a 'Mer klel nter		Validation	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				vals` with 'root' '; sub mitR oot to ReFI N; rece ipt app ears in 'ReF INR oots ':			
P3- A- <u>036</u>	3	P3-A	9) Smoke Tests	Trig ger Anc hor Job; see cac he- miss sele ctio n, bun dle, CCI P sen d, and L1An chor s ups ert; che ck L1 expl orer for rece ipt.		Validation	
P3- A- <u>037</u>	3	P3-A	9) Smoke Tests	Call 'GE T '/v1/r esol ve/{		Validation	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				has h}; respon se incl ude s leaf, inter val, L2 rece ipt, and L1 anc hor rece ipt (wh en avail able).			
P3- B- 001	3	P3-B	1) Development & Integration Plan — Producers (Risk	Emit com pact 'aud it.ev ' at eac h defi ned tran sitio n with requ ired attri but es 'sch ema '_ver sion ' 'cor relat ionl d', 'emi tter', 'emi tted '_at',	Engineering	Produc	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				plus the natu ral dom ain key (`cli ent Ord erId` 'inte nt_i d` 'pla n_id '). Bodi es mus t be dete rmin istic and omit non dete rmin istic field s.			
<u>P3-</u> <u>B-</u> <u>002</u>	3	P3-B	1) Development & Integration Plan — Producers (Risk)		Ens ure per- dom ain orde ring keys mat ch the hot- path con ven tions so rep lays are stab le.	Engineering	Produc
<u>P3-</u> <u>B-</u>	3	P3-B	1) Development & Integration Plan — Audit Writer (Cloud Run)	Sub scri		Engineering	Audit W

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
<u>003</u>				ptio n: Con sum e 'aud it.ev t' with DLQ ; appl y shar d- awa re orde ring for con sist ent seq uen cing .			
P3- B- 004	3	P3-B	1) Development & Integration Plan — Audit Writer (Cloud Run)	Seq uen cing : Allo cate 'seq _no' per shar d; kee p mon oton ic seq uen ces via Redi s 'aud :seq : {sha rd}`. Mai ntai n shor	Engineering	Audit W	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				t- TTL 'aud :see n: {ide m}` for ide mpo tent y.			
P3- B- 005	3	P3-B	1) Development & Integration Plan — Audit Writer (Cloud Run)	Can oni caliza tion & reda ctio n: Stab le JSO N (ord ered keys , UTC time sta mps , nor maliz ed num eric s); appl y reda ctio n map s prio r to has hing . Uplo ad reda cted pre imag es		Engineering	Audit W

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
P3-B-006	3	P3-B	1) Development & Integration Plan — Audit Writer (Cloud Run)	to GCS and store only references.	Has hing : Compute 'leaf_has_h' using the standardized algorithm (default SHA-256, optional keccak 256 via config; must be consistent across Writer, Builder, Explorer).	Engineering	Audit W
P3-B-007	3	P3-B	1) Development & Integration Plan — Audit Writer (Cloud Run)	Persistence (Clo		Data Infra	Audit W

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com	
				ud Spa nner): Ups ert to 'aud it_le aves ' with field s '{lea f_id, leaf _has h, emit ter, type ,, corr elati onld ,, clie ntOr derl d, inte nt_i d, plan _id, seq_ no, shar d_id ,, sch ema _ver sion ,, prei mag e_re f, crea ted_ at}`. Cre ate sec ond ary				

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				indexes on 'correlationId', 'clientOrdealId', 'intent_id', and 'created_at DES C'.			
<u>P3-B-008</u>	3	P3-B	1) Development & Integration Plan — Audit Writer (Cloud Run)	Observability: Emitting ingest and redact lateencies, duplicate-dropped counters, DLQ metrics.		Engineering	Audit W
<u>P3-B-009</u>	3	P3-B	2) Testing & Validation Checklist	Manual end-to-end trigger: Push an account.inten.re		Validation	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				ady` to driv e Pha se-1 (Ris k → EG → TM). Veri fy prod ucer s publ ish 'aud it.ev ' at eac h tran satio n.			
P3- B- <u>010</u>	3	P3-B	2) Testing & Validation Checklist	Even t publ ishin g verif icati on: In Pub/ Sub, conf irm 'aud it.ev ' from Risk , Exe cuti on Gate way, and Trad e Man ager carr y exp		Validation	

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				ecte d sna psh ots.			
P3- B- 011	3	P3-B	2) Testing & Validation Checklist	Audi t Writ er verif icati on: Log s sho w 'seq _no' allo cati on and 'ide m' com puta tion; Spa nner cont ains new 'aud it_le aves ' row s; 'leaf _has h' reco mpu tes loca lly; 'prei mag e_re f' poi nts to a reda cted GCS obj ct.	Data Model		

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P3-B-012	3	P3-B	2) Testing & Validation Checklist	Ide mpo tenc y che ck: Re- publ ish a capt ured 'aud it.ev t'; conf irm no dupl icat e leaf due to 'aud :see n: {ide m}' and leaf- ide mpo tenc y.		Validation	
P3-C-001	3	P3-C	1) Development & Integration Plan — Merkle Builder (Cloud Run)	Inta ke: Dete ct new leav es from Spa nnner ('au dit_l eav es') usin g com mit- time sta mp polli ng or a	Data Model	Merkle	

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				light wei ght notif ier; deri ve 'sha rd_k ey' (e.g. ,'(em itter, win dow _sta rt'); use Redi s 'mrk :loc k: {sha rd_k ey}' to guar d final izati on. Mai ntai n a per- shar d ide mpo tent y toke n.			
<u>P3-C-002</u>	3	P3-C	1) Development & Integration Plan — Merkle Builder (Cloud Run)	ope n- batc h stat e: Trac k an ope n batc h in Spa	Data Model	Merkle	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com	
				nner (buil der stat e or 'mer kle_i nter vals' row with 'stat e=o pen') stori ng '{ba tch_ key, win dow _sta rt, leaf_ cou nt}'. 				
<u>P3-C-003</u>	3	P3-C	1) Development & Integration Plan — Merkle Builder (Cloud Run)	Rotat ion poli cy: Seal by time (e.g. ,≥5- 10 min) or	Engineering	Merkle		

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				size thre shol ds; mar k 'stat e=cl osin g' with 'win dow _en d'.			
P3- C- <u>004</u>	3	P3-C	1) Development & Integration Plan — Merkle Builder (Cloud Run)		Fina lize — root & proo fs: Loa d orde red 'leaf _has h[]', com pute Mer kle root (def ault SHA -25 6, 'kec cak 256' opti onal via conf ig), and buil d incl usio n proo fs.	Engineering	Merkle
P3- C-	3	P3-C	1) Development & Integration Plan — Merkle Builder (Cloud Run)	Pers iste		Data Infra	Merkle

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com	
<u>005</u>				nce (Spa nner): Writ e 'mer kle_i nter vals' '{ba tch_i d, emit ter, win dow _sta rt, win dow _en 				

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<u>P3-C-006</u>	3	P3-C	1) Development & Integration Plan — Merkle Builder (Cloud Run)	L2 submit: Call `AuditReport try.submitRoot(batchId, root, meta...); persist `refreshRoots` '{batch_id, root, l2_tx_has_h, anchor_status}` and backlogfill `l2_tx_hash` on `merkle_intervals`.		Engineering	Merkle
<u>P3-C-007</u>	3	P3-C	1) Development & Integration Plan — Merkle Builder (Cloud Run)	Anc hor enque ue: Insert into `anchor_queue` `{ba		Engineering	Merkle

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				tch_id, root, l2_tx _has h, stat us= pen ding }`.			
P3-C-008	3	P3-C	1) Development & Integration Plan — Merkle Builder (Cloud Run)	Indexing: ReFIN Indexer mirrors receipts into 'refin_roots' and links to intervals; alert on indexer lag.	Engineering	Merkle	
P3-C-009	3	P3-C	2) Testing & Validation Checklist	Determinism: Recompute the Merkle root from batch leaves and confirm it equals	Validation		

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				'mer kle_i nter vals. root' .			
<u>P3- C- 010</u>	3	P3-C	2) Testing & Validation Checklist	L2 tran sact ion: Sub mit a dev batc h; verif y L2 rece ipt; conf irm 'refi n_rob ots' ups ert and 'l2_t x_ha sh' linke d on 'mer kle_i nter vals' .		Validation	
<u>P3- C- 011</u>	3	P3-C	2) Testing & Validation Checklist	Que uein g: Vali date 'anc hor_ que ue' row crea tion post - sub mit with 'stat us=		Validation	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Section	= Task	= Notes	⌚ Area	⌚ Com
				pen ding `.			
P3- C- 012	3	P3-C	2) Testing & Validation Checklist	Late ncy SLO : Leaf → root com mit com plet es with in the conf igur ed cad enc e (e.g. , ≤ 60 s).		Validation	
P3- D- 001	3	P3-D	1) Development & Integration Plan — Anchor Job (CCIP)	Eligi bilit y: Sele ct final ized root s with `anc hor_ stat us=pen ding ' from `refi n_ri ots' or pop from `anc hor_ que ue'; sort	Engineering	Anchor	

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				dete rmin istic ally.			
P3- D- <u>002</u>	3	P3-D	1) Development & Integration Plan — Anchor Job (CCIP)	Bun dle com pos e: Cre ate 'Anc hor Bun dle' with in thre shol ds ('ma x_ro ots', 'ma x_by tes', 'ma x_ag e_se con ds'); deri ve 'bun dle_i d' from orde red 'bat ch_i d[]'.		Engineering	Anchor
P3- D- <u>003</u>	3	P3-D	1) Development & Integration Plan — Anchor Job (CCIP)	Sen d via CCI P: Sub mit to L1 Anc hor; pers ist 'me ssa ge_i		Engineering	Anchor

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P3- D- <u>004</u>	3	P3-D	1) Development & Integration Plan — Anchor Job (CCIP)	d`, pro- vise- al 'l1_t x_ha- sh'.	Con- firm- & mar- k: Up- sert 'l1_a- nch- ors` '{bu- ndle- _id, root- s[] s- uper- _roo- t, mes- sag- e_id ,	Engi- neering	Anchor
P3- D- <u>005</u>	3	P3-D	1) Development & Integration Plan — Anchor Job (CCIP)	Ide- mpo- tent- y &	Engi- neering	Anchor	

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				saf ty: Nev er re- anc hor the sam e 'bat ch_i d'; exp one ntial bac koff and circ uit brea kers on RPC /CCI P failu res.			
P3- D- <u>006</u>	3	P3-D	1) Development & Integration Plan — Explorer API	Res olve path : Join 'aud it_le aves → mer kle_i nter vals → refin _roo ts → l1_a nch ors'; retu rn a com pact reco rd key ed by	Engineering	Explore	

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				'cor relat ionl d', incl udin g leaf met adat a, inter val/r oot, L2 tx has h, L1 anc hor tx has h, and 'prei mag e_re f'.			
P3- D- 007	3	P3-D	1) Development & Integration Plan — Explorer API	Veri fy inclusio n: Rec omp ute Mer kle proo f for a give n leaf agai nst stor ed root; retu rn vali dity resu lt and refe	Engineering	Explor	

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P3-D-008	3	P3-D	1) Development & Integration Plan — Explorer API	Preimage access: Service redacted preimages from GCS under auth; enforce rate limits.	Engineering	Explore	
P3-D-009	3	P3-D	1) Development & Integration Plan — Security	Service accounts: 'sa-anc-hor-job', 'sa-explorer-api'; keys and CCI P config in Secret Manager.	Engineering	Security	
P3-D-010	3	P3-D	1) Development & Integration Plan — Security	On-chain config: L1/L2	Engineering	Security	

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				RPC end points and CCI P router; address books per env.			
P3-D-011	3	P3-D	1) Development & Integration Plan — Security	Observability: Dashed boards for CCI P send latency, L1 confirm time, index lag; API p95 ≤ 200 ms. Alerts for backlog growth and verification mismatch checks.	Observability	Security	

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P3-D-012	3	P3-D	2) Testing & Validation Checklist	Anc hor Job verifi cation: Ens ure sev eral un anc hore d L2 root s exist ; trigg er a run; logs sho w sele ctio n, bu ndle crea tion, CCI P sen d; conf irm the L1 tx on a bloc k expl orer ; verif y `l1_a nch ors` ups ert and `refi n_rob ots. anc hor_	Validation		

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				stat us= anc hore d'.			
P3- D- <u>013</u>	3	P3-D	2) Testing & Validation Checklist	Expl orer verif icati on: Pick a 'leaf _has h' from an anc hore d batc h; 'GE T /v1/r esol ve/{ has h}' retu rns inter val/r oot, L2 tx, L1 tx, and prei mag e poin ter; vali date incl usio n via 'PO ST /v1/ verif y/in clusi on'.	Validation		

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P3- D- 014	3	P3-D	2) Testing & Validation Checklist	For matt ing & time line: Res pon ses pres ent a chro nolo gica l trail for a give n 'cor relat ionl d'.		Validation	