

## AI Automation / Workflow Systems

Plan the migration from legacy workflows to new systems with rollback strategies — enables safe system replacement.

Difficulty: Advanced

Model: GPT-4 / Claude / Gemini

Use Case: System Migration, Legacy Replacement

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Why This Prompt Exists

Replacing legacy workflows is risky. One mistake breaks downstream systems, and without a rollback plan, you can't recover quickly.

You get:

- migrations that break production (no staging environment test)
- no rollback plan (hours to revert, not minutes)
- data loss during migration (no verification step)
- parallel runs that drift (legacy and new systems diverge)
- no cutover window (migration drags on for weeks)

But migrations can be planned:

- discovery: what workflows are being replaced?
- dependency mapping: what relies on these workflows?
- parallel run: run both systems, compare outputs
- cutover: switch traffic atomically
- rollback: revert to legacy if issues arise

Without planning, migrations fail catastrophically.

This prompt designs safe workflow migration plans.

The Prompt

Assume the role of a migration architect who plans workflow replacements.

Your task is to create a safe migration plan from legacy to new workflows.

Generate:

### 1. MIGRATION SCOPE

- Legacy workflows being replaced: [list]
- New workflows replacing them: [list]
- Reason for migration: [performance / maintainability / compliance / new features]

### 2. DEPENDENCY IMPACT ANALYSIS (from WS-02)

- Downstream workflows that will be affected: [list]
- Upstream workflows that feed into legacy: [list]
- Shared resources (databases, APIs) in scope: [list]

### 3. MIGRATION STRATEGY

Strategy	Description	Risk	Duration
Parallel run	Run both systems, compare outputs	Low	Weeks
Phased cutover	Migrate one workflow at a time	Medium	Days

| Big bang | Cut over all at once | High | Hours |

#### 4. PARALLEL RUN PLAN (recommended for high-risk)

- Step 1: Run new workflow alongside legacy (no output)
- Step 2: Compare outputs for [X] days
- Step 3: Fix discrepancies
- Step 4: Switch to new workflow for [X]% of traffic
- Step 5: Gradually increase to 100%

#### 5. CUTOVER PLAN

- Cutover window: [date and time]
- Expected downtime: [X minutes/seconds]
- Communication plan: [who to notify, when]

#### 6. ROLLBACK STRATEGY

- Trigger conditions: [error rate > X% / data discrepancy > Y% / timeout]
- Rollback steps: [revert configuration, restart legacy workflows]
- Rollback time: [X minutes]
- Data reconciliation: [how to handle data processed during rollback]

#### 7. VALIDATION CHECKLIST

- [ ] Legacy and new outputs identical for 1,000 test cases
- [ ] Downstream workflows receive same data format
- [ ] Performance meets or exceeds legacy
- [ ] Rollback tested in staging

INPUTS:

Legacy workflows (from WS-01):

[PASTE LEGACY WORKFLOW DESCRIPTIONS]

New workflows:

[PASTE NEW WORKFLOW DESCRIPTIONS]

Dependency map (from WS-02):

[PASTE DEPENDENCIES]

Risk tolerance:

[HIGH (can tolerate brief failures) / MEDIUM / LOW (zero downtime required)]

RULES:

- Parallel run first for critical workflows (build confidence)
- Test rollback in staging before production (always)
- Communicate cutover window to all downstream consumers
- Monitor both systems during parallel run (log discrepancies)
- Have a rollback trigger threshold (don't decide in the moment)
- Data reconciliation is harder than code rollback (plan for it)

How To Use It

- Parallel run first for critical workflows — builds confidence before cutover.
- Test rollback in staging before production — always.
- Communicate cutover window to all downstream consumers — surprises break things.
- Monitor both systems during parallel run — log every discrepancy.
- Have a rollback trigger threshold — don't decide in the moment.
- Data reconciliation is harder than code rollback — plan for it.

Example Input

**Legacy workflows:**

“WF-001 (Legacy Lead Capture): Typeform → Salesforce via Zapier. WF-002 (Legacy Lead Scoring): Custom Python script on EC2.”

**New workflows:**

“WF-001-NEW: Typeform → Salesforce via API (direct). WF-002-NEW: Lead scoring in Make.com with error handling.”

**Dependency map:**

“WF-002 depends on data from WF-001. WF-003 (Routing) depends on WF-002.”

**Risk tolerance:**

“LOW — zero downtime, zero data loss”

Why It Works

Most migrations are planned as a single event — “we’ll switch on Tuesday” — with no rollback, no parallel run, and no confidence building.

This framework improves outcomes by forcing:

- dependency impact analysis (what breaks if this migration fails?)
- migration strategy selection (parallel, phased, or big bang)
- parallel run plan (compare outputs, build confidence)
- cutover planning (when, how, who to notify)
- rollback strategy (how to recover quickly)

**Failure modes this prevents:**

- Untested rollback — “we’ll figure it out if something goes wrong” (you won’t)
- No parallel run — discover discrepancies after cutover (too late)

- Data loss during migration — no reconciliation plan
- Downstream surprise — workflow changes format, consumers break

**This improves on:** “Big bang” migrations that hope for the best. Safe migrations are planned, tested, and reversible.

**Related to:** WS-02 (Dependencies) for impact analysis; WS-04 (Optimizer) for performance targets.

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