

# The Flow Production-Killer Audit

20 Flow anti-patterns that work fine on one record and take down the org on 200 — each with why it breaks and the exact fix. Plus a self-audit checklist you can run before every deploy.

Governor limits

Bulkification

Fault handling

Architecture

Summer '26

## THE 20 PRODUCTION-KILLERS

**01** DML inside a loop**03** Multiple Update elements for the same record**05** No fault paths on DML elements**07** One mega-flow per object**09** Hardcoded IDs and values**11** Hand-building collections in a loop**13** Querying in a loop just to check existence**15** Using a flow where a validation rule fits**17** No null / empty checks**19** Unbounded 'get all, then loop' on huge objects**02** Get Records inside a loop**04** After-save flow updating its own trigger record**06** Unguarded recursion / re-triggering**08** No entry conditions — runs on every save**10** Never bulk-tested with 200**12** Get Records pulling everything**14** Large scheduled flow with no batch control**16** Too many automation tools on one object**18** Environment-specific template & asset references**20** No naming, description, or version discipline

A Flow that works in the sandbox proves nothing — it was tested on one record. Production hands it 200 at once from a data load, an integration, or a bulk update, and that's when the limits, the recursion, and the silent failures show up. Every anti-pattern below is a specific way Flows die at scale, with the fix we actually ship.

### 01 DML inside a loop

LIMITS

**THE TRAP** An Update / Create / Delete element sits inside a Loop.

**WHY IT BREAKS** 200 records = 200 DML statements. You hit the 150-statement limit and the whole transaction rolls back for every user.

**THE FIX** “No pink in loops.” Get before the loop, add records to a collection inside the loop, run ONE DML after it.

Get (before) → Loop → Assign into collection → Update Records (after loop)

### 02 Get Records inside a loop

LIMITS

**THE TRAP** A Get Records element runs on every iteration.

**WHY IT BREAKS** Each Get is a SOQL query; 101 of them throws “Too many SOQL queries: 101”.

**THE FIX** Query once before the loop using the In operator, then reference the collection in memory.

```
Get Records WHERE Id In {!idCollection} // one query, loop the result
```

### 03 Multiple Update elements for the same record

LIMITS

**THE TRAP** Two or three Update Records elements touch the same record in one run.

**WHY IT BREAKS** Every Update element spends a separate DML statement for no reason.

**THE FIX** Set every field with one Assignment, then a single Update Records.

Assignment (set all fields) → one Update Records

#### 04 After-save flow updating its own trigger record

LIMITS

**THE TRAP** An after-save record-triggered flow updates the same record that fired it.

**WHY IT BREAKS** That's an extra DML + a re-entry into the save order — wasteful and a recursion risk.

**THE FIX** Use a before-save (“Fast Field Update”) flow for same-record changes: zero DML, and 200 records update as fast as one.

```
Record-Triggered Flow → “Fast Field Update” (before-save) // 0 DML
```

#### 05 No fault paths on DML elements

LIMITS

**THE TRAP** Create / Update / Delete elements have no fault connector.

**WHY IT BREAKS** Failures are silent — bad data, no error, angry users, and nothing in the logs.

**THE FIX** Add a fault path on every DML element routing to a reusable error-handling subflow that logs the failure.

```
Every Create/Update/Delete → Fault → [Log Error subflow]
```

#### 06 Unguarded recursion / re-triggering

LIMITS

**THE TRAP** A flow updates records that re-fire the same flow.

**WHY IT BREAKS** “Maximum trigger depth exceeded” after 16 hops — and it burns CPU, SOQL and DML on the way down.

**THE FIX** Gate the start with “only when a record is updated to meet the condition” + ISCHANGED, or a stamp-field guard.

```
Entry: only-meets-criteria + ISCHANGED(!$Record.StageName)
```

#### 07 One mega-flow per object

ARCHITECTURE

**THE TRAP** A single giant flow handles validation, updates, notifications and integrations.

**WHY IT BREAKS** Unpredictable order of execution, impossible to debug, and one change risks everything.

**THE FIX** Split by intent (validation vs notification) and by event (insert vs update). Compose with subflows.

## 08 No entry conditions — runs on every save

ARCHITECTURE

**THE TRAP** The flow has no start filter, so it fires on every create/update.

**WHY IT BREAKS** Wasted runs, blown limits, and a prime cause of recursion.

**THE FIX** Set precise entry conditions so the flow only runs when it actually needs to.

Start → Entry Conditions → `{!$Record.Status} = "Open"`

## 09 Hardcoded IDs and values

MAINTAINABILITY

**THE TRAP** Record-type IDs, user IDs, profile IDs or queue IDs are typed into the flow.

**WHY IT BREAKS** They differ across sandboxes and prod — the flow silently does the wrong thing after deploy.

**THE FIX** Reference Custom Metadata / Custom Settings / `$Setup`, or look records up by a stable name.

## 10 Never bulk-tested with 200

LIMITS

**THE TRAP** The flow was tested by editing one record in the UI.

**WHY IT BREAKS** It works for one and crashes on a Data Loader job or a 200-row integration insert.

**THE FIX** Always test with 200 records before deploying. If it survives 200, it survives production.

## 11 Hand-building collections in a loop

LIMITS

**THE TRAP** A Loop + Assignment builds a new collection element by element.

**WHY IT BREAKS** More elements, more iterations, more governor-limit exposure than you need.

**THE FIX** Use the Transform element to map input → output collections declaratively.

Use Transform (not Loop + Assignment) for collection mapping

## 12 Get Records pulling everything

LIMITS

**THE TRAP** Get Records selects all fields, no filter, no row limit, no “first record only”.

**WHY IT BREAKS** Wastes heap and query rows; non-selective queries time out on large objects.

**THE FIX** Select only the fields you use, filter on indexed fields, and set “first record only” when you need one.

## 13 Querying in a loop just to check existence

LIMITS

**THE TRAP** A Get inside the loop checks “does a related record exist?”.

**WHY IT BREAKS** Same SOQL-in-loop trap, hidden behind a Decision element.

**THE FIX** Pre-query related records into a collection/map once; check membership in memory.

## 14 Large scheduled flow with no batch control

LIMITS

**THE TRAP** A scheduled- or record-triggered flow processes a huge data set in one go.

**WHY IT BREAKS** It blows limits mid-run and leaves data half-processed.

**THE FIX** Set a maximum batch size on schedule-triggered flows (Summer '26) so volume scales safely.

Scheduled-Triggered Flow → Batch Size: 200 (Summer '26)

## 15 Using a flow where a validation rule fits

ARCHITECTURE

**THE TRAP** A flow enforces a simple field rule that a validation rule or before-save would handle.

**WHY IT BREAKS** Heavier, slower, and harder to maintain than the native tool.

**THE FIX** Use validation rules / before-save flows for simple field checks; reserve flows for orchestration.

## 16 Too many automation tools on one object

ARCHITECTURE

**THE TRAP** Flows, Apex triggers and legacy Workflow all fire on the same object.

**WHY IT BREAKS** Order of execution becomes unpredictable; one tool undoes another.

**THE FIX** Consolidate onto one orchestration layer, document the order, and migrate legacy Workflow/Process Builder to Flow.

## 17 No null / empty checks

LIMITS

**THE TRAP** The flow loops or references a Get result without checking it returned anything.

**WHY IT BREAKS** Empty collections and null lookups throw runtime errors that never showed in the sandbox.

**THE FIX** Add a Decision to check for null / empty before looping or using a Get result.

## 18 Environment-specific template & asset references

MAINTAINABILITY

**THE TRAP** Send Email and other actions reference templates/assets by environment-specific ID.

**WHY IT BREAKS** The reference breaks the moment you deploy to another org.

**THE FIX** Summer '26 stores the Send Email template by NAME — re-test deployments where two templates share a name.

Send Email → template stored by NAME (Summer '26)

## 19 Unbounded 'get all, then loop' on huge objects

LIMITS

**THE TRAP** A flow pulls every record of a large object and loops them in one transaction.

**WHY IT BREAKS** Heap and CPU limits hit long before you finish.

**THE FIX** Filter hard at the Get, or move high-volume processing to Batch Apex.

## 20 No naming, description, or version discipline

MAINTAINABILITY

**THE TRAP** Elements are named Get1 / Decision2; no descriptions; old versions left active.

**WHY IT BREAKS** Nobody can safely change it later — and Spring '26's AI-built flows make this worse, fast.

**THE FIX** Name elements meaningfully, describe each, log faults, and keep a deactivate/version strategy. Treat Flow with Apex-level rigor.



## Bonus — build the reusable error-handler subflow once

Anti-pattern #05 says every DML element needs a fault path. This is the subflow they all call — build it one time, reuse it across every flow in the org.

### BUILD IT

1) New autolaunched flow **Log\_Flow\_Error** with text inputs: sourceFlow, recordId, faultMessage. 2) Create Records → a custom object **Flow\_Error\_Log\_\_c** (Source\_Flow\_\_c, Record\_Id\_\_c, Error\_\_c). 3) Optional: fire an email / Slack alert to the admin team.

### WIRE IT

On every DML element's fault path, call Log\_Flow\_Error with the flow name, the record Id, and the fault message — then show the user a friendly error screen instead of a stack trace.

```
Fault → Subflow Log_Flow_Error( faultMessage = {!$Flow.FaultMessage}, sourceFlow = "Opportunity_Update", recordId = {!$Record.Id} )
```

## The pre-deploy self-audit

Run every box before you activate a flow in production. Any unchecked box is a future incident.

- ☐ No Get, Update, Create or Delete element sits inside any Loop
- ☐ Every DML element has a fault path → reusable error-logging subflow
- ☐ Same-record updates use a before-save (Fast Field Update) flow
- ☐ The flow has precise entry conditions (doesn't run on every save)
- ☐ Recursion is guarded (ISCHANGED / only-meets-criteria / stamp field)
- ☐ One record is updated with a single Assignment + single Update
- ☐ No hardcoded record-type / user / profile / queue IDs
- ☐ Get Records selects only needed fields, filtered, with a row limit
- ☐ Collections are built with the Transform element, not Loop + Assignment
- ☐ Null / empty results are checked before they're used
- ☐ Logic is split by intent and event — no mega-flow per object
- ☐ Legacy Workflow Rules / Process Builder migrated to Flow
- ☐ Scheduled flows set a max batch size for large data volumes
- ☐ The flow was bulk-tested with 200 records before deploy
- ☐ Elements are named meaningfully and described
- ☐ Old flow versions are deactivated; an active-version strategy exists

## Got a flow that times out or fails silently at volume?

That's most of what we untangle. Genetrix re-architects Flow, Apex, and the whole automation layer to run at enterprise scale across Salesforce core, Marketing Cloud, Data Cloud, and Agentforce.

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