

From 3 Weeks to 3 Days: Transforming Oracle Cloud Testing at Scale

The Agentic AI Revolution in Oracle
Cloud QA



From manual scramble to autonomous QA

Six sections, one story: from the testing problem to a proven, repeatable path forward.

01

The Problem

Why manual testing can't keep pace with Oracle Cloud's quarterly cadence.

02

What Agentic AI Testing Is

A working definition and the three pillars of autonomous QA.

03

The Operating Model

From projects to Testing-as-a-Service — and the partnership behind it.

04

Journey & ROI

From pilot to enterprise rollout, with real metrics and measurable returns.

05

Lessons & Change

What got hard in the field, and the human side of adoption.

06

Voices & Use Cases

What customers say, plus three real journeys you can pattern-match against.



Pramod Alluri

VP, Strategy & Solutions

@ Datavail

Experience:

- Pramod is a Vice President of Solutions & Delivery at Datavail, bringing nearly three decades of cross-industry leadership to enterprise transformation.
- He partners with clients to translate strategic vision into executable roadmaps—designing and delivering large-scale programs that solve complex operational challenges while building sustainable capability.
- His work sits at the intersection of Business/technology strategy, organizational change, and measurable business outcomes.



Adam Jones

Principal, Innovation & Excellence

@ Opkey

Experience:

- 15+ years of experience implementing Oracle Cloud across HCM, ERP, and SCM
- Partners with organizations to modernize their Oracle Cloud implementations and optimizations, accelerate deployments and reduce risk
- Adam is a Principal at Opkey in the Product and Solutions practice leading the COE for Customer and Partner success and driving innovation within our suite of Product offerings



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Testing can't keep pace with change

The cost of standing still

Weeks

per update cycle spent on manual validation

Gaps

in coverage slip through to go-live

At Risk

go-lives slip and confidence erodes

Transformations, rollouts, and quarterly releases each force a testing scramble — and the gaps compound.

Transformations & re-implementations

Massive test surface, compressed timelines — full validation is near-impossible by hand.

Deployment rollouts

New modules, geos, and integrations go live with critical paths left untested.

Quarterly releases

Every cloud update forces a regression scramble against a fixed go-live date.

What “agentic AI testing” actually means

Agents that act, adapt, and reason on their own — winning back the time, coverage, and confidence that scripts can’t.

Traditional Automation

- Rules-based, fixed scripts
- Breaks when the app changes
- Human triggers every run
- Reactive — finds defects after the fact

VS

Agentic AI Testing

- Adaptive agents that prioritize what to test
- Self-heals when UI or config shifts
- Runs autonomously on every change
- Predictive — flags risk before production

Three pillars of autonomous QA

What makes it agentic — three capabilities that win back time, close gaps, and de-risk go-live.

AE

Autonomous • Execution

Agents run full regression suites without human triggering — on every code or config change.

SH

Self-Healing • Scripts

When UI or configuration shifts, tests repair themselves instead of failing and blocking the team.

PD

Predictive • Defects

AI flags high-risk areas and likely failures before they ever reach production.

Detect change



Heal scripts



Run regression



Predict risk



Report

The operating model

From projects to Testing-as-a-Service

Datavail runs TaaS as a continuous, always-on service — powered by the Opkey platform — so testing keeps pace with every Oracle release instead of a scramble before each go-live.

TaaS
Testing-as-a-Service

WINS BACK THE WEEKS

Continuous, not one-off

Testing runs as an ongoing service tied to the release cadence — not a scramble before each go-live.

CLOSES THE GAPS

Platform-powered

Opkey's agentic engine, self-healing IP, and test repository form the delivery backbone.

TAKES IT OFF THE RISK LIST

Governed & scalable

Centralized coverage, audit trails, and governance scale across teams and modules.

Opkey Platform Overview



Design Studio

Accelerate digital transformation with AI-powered agents that discover, design, and configure autonomously.



Config Agent

Enables effortless, AI-powered execution of enterprise software configuration management and migration.



Testing Agent

Revolutionizes end-to-end testing for any software application, speeding up implementations and regression testing cycles



Training Agent

Maximizes end-user adoption through embedded change management and end-user enablement.



Release Advisor

From Planning to Execution - adds the customer-environment execution layer – what matters in the live environment, which business processes are affected, what to test, what to enable or defer, and what training and configuration actions are required.



Why Opkey?



50%

Faster implementations

Agentic delivery compresses the SI timeline — protecting the forecast and the go-live date you're quoting.



80%

Less manual effort

On configuration, testing and training — freeing the SI margin and ROI that customers expect.



Zero

Surprises at every update

Release Advisor flags how Oracle's quarterly updates will impact business processes — eliminating regression risk.



Day 1

Adoption at scale

Design Studio, Config, Testing and Training agents make sure users are ready and processes work the moment you go live.

Testing Agent — The Solution

No-code Oracle test automation, live in weeks

01

Comprehensive coverage

Test discovery ensures every business process is tested, with data permutations for true depth — not just the critical few.

02

Test in days, not weeks

A pool of agents runs full suites in parallel overnight for maximum efficiency.

03

Any application, any integration

End-to-end processes across your entire tech stack — desktop, web, and mobile.

04

Coverage beyond releases

Patches and service updates too, on a repeatable schedule to de-risk your system as it evolves.

05

Self-healing impact analysis

Surfaces field-level changes and self-heals test cases, protecting downstream integrations and reports.

Datavail + Opkey: domain depth and AI that sustain the gains

Datavail Enables

- Oracle process expertise aligned to business priorities
- Risk-based testing focused on critical business processes
- Governance and release readiness across the enterprise



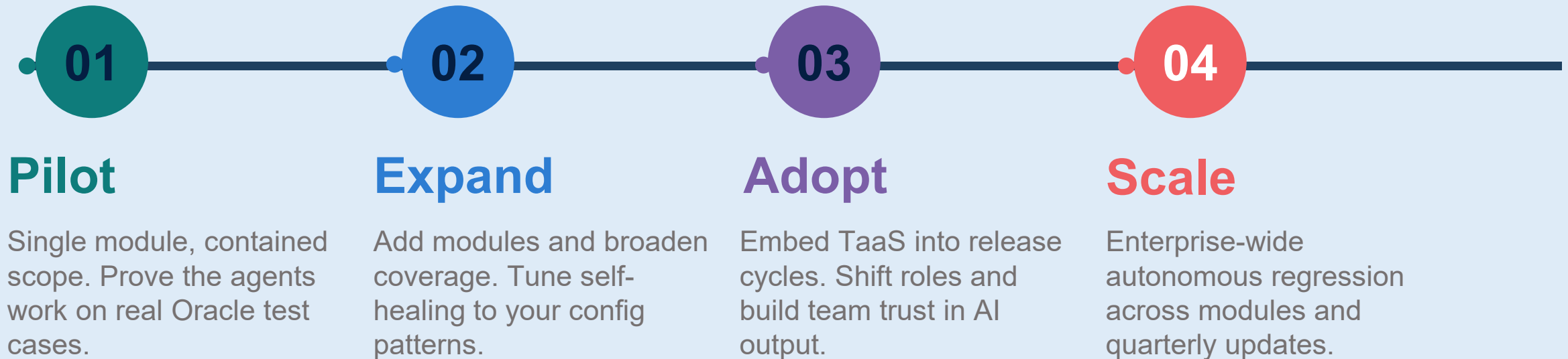
Opkey Platform Enables

- Faster regression execution with minimal manual effort
- Self-maintaining test assets that adapt to change
- Continuous validation across quarterly Oracle updates

Outcome: Not a one-time win — domain expertise and the Opkey platform together sustain the gains, release after release.

The journey: From pilot to enterprise rollout

A staged path to that sustained state — start contained, prove it, then scale with confidence.



The proof: real metrics, measurable ROI

80%

reduction in testing cycle time

Broader

coverage of the suite, every release

Positive ROI

achieved within the rollout window

How the ROI Math Works

Hours saved × loaded tester rate

+ Defects caught pre-prod × cost-of-escape avoided

+ Faster releases × value of time-to-market

– Platform & enablement cost

= Quantified, defensible payback

Cycle Time

3 days

down from 3 weeks

The hard parts: challenges we cleared

Integration with Oracle Cloud

Challenge

Mapping agents to modules, environments, and quarterly-update artifacts took early groundwork.

What worked

Started with one module; built reusable connection patterns before scaling.

Test data & environments

Challenge

Realistic, refreshable data was essential for trustworthy self-healing.

What worked

Stood up managed data sets and environment hooks as part of the TaaS service.

Trust in AI output

Challenge

Teams were rightly skeptical of letting agents decide and heal autonomously.

What worked

Ran AI and manual in parallel until results earned confidence, then handed off.

The human side: change & culture

Roles evolve

Testers move from running scripts to supervising agents and owning quality strategy.

Build trust

Run AI alongside manual, show the evidence, and let confidence grow before handoff.

Win buy-in

Engage technical, business, and leadership stakeholders with the metrics each one cares about.

Upskill early

Invest in enablement so teams shape the AI rather than fear it.

Three journeys, one pattern

Different industries, modules, and starting points, selected so you can pattern-match to your own situation.

1

Manufacturing

Regression spanned financials, supply chain, and manufacturing modules.

→ **Now validated continuously, every release.**

2

Hospitality

Change spanned guest, supply chain, operations, and revenue systems.

→ **Self-healing keeps every domain release-ready.**

3

Energy & Resources

Re-testing spanned every country go-live across Finance, Supply Chain, and Maintenance.

→ **One blueprint, replicated region by region.**

Manufacturing: autonomous regression across financials & supply chain

A global fiber-networking manufacturer on Oracle Cloud — complex post-merger module footprint, relentless release cadence. Autonomous regression at scale.

STARTING POINT

Manual regression across financials and supply chain took ~3 weeks per Oracle Cloud update — and coverage still had gaps at go-live.

WHAT THEY DEPLOYED

Opkey's agentic engine for end-to-end regression, with self-healing scripts tuned to their config and Datavail owning the test strategy.

RESULT

Cycle time fell from 3 weeks to ~3 days, with broader coverage every release and zero critical defects reaching production.

LESSON LEARNED

Start with the highest-pain module: proving it on core financials built the trust to scale across the supply chain fast.

Hospitality: scaling testing across Hire-to-Retire, Procure-to-Pay & Project delivery

A Caribbean resort & hospitality conglomerate on Oracle Cloud — a scalable rollout, business process by business process.

STARTING POINT

Each new business process — Hire-to-Retire, Payroll, Procure-to-Pay, then Project delivery — meant another manual testing effort the lean team couldn't keep pace with.

WHAT THEY DEPLOYED

Opkey's platform rolled out one business process at a time, with self-healing test assets and Datavail sequencing each go-live to build on the last.

RESULT

Four core business processes brought under autonomous regression, each release-ready every cycle — without adding test headcount.

LESSON LEARNED

A repeatable rollout pattern beats a big bang: proving one business process made every next one faster to onboard.

Energy & Resources: a blueprint replicated across regions and countries

A global mining-services contractor on Oracle Cloud — Finance, Supply Chain, and Maintenance rolled out country by country.

STARTING POINT

Each regional and country go-live re-tested the same Finance, Supply Chain, and Maintenance flows by hand — duplicated effort that didn't scale across geographies.

WHAT THEY DEPLOYED

A reusable Opkey test blueprint replicated per region and country, with self-healing assets and Datavail adapting each rollout to local config.

RESULT

Every new country goes live faster off the blueprint, with constant regression keeping all regions release-ready as Oracle Cloud updates land.

LESSON LEARNED

Build the blueprint once — each new region inherits it, so testing speeds up as the footprint grows instead of slowing down.

Different starting points, same outcome

Industry	Business Functions	Before → After	Time to Value
Manufacturing	Finance, Supply Chain, Planning & Workforce	3-wk manual regression → ~3-day autonomous	First release cycle
Hospitality & resorts	Workforce, Payroll, Procurement & Project Delivery	Manual re-test per process → continuous, no added headcount	Each process faster than the last
Energy & Resources (global)	Finance, Supply Chain & Asset Maintenance	Manual re-test per country → one reusable blueprint	Accelerates as the footprint grows

Your first 90 days with agentic testing

Step 1

Assess readiness

Map your processes, current coverage, and biggest regression pain points.



Step 2

Pick a pilot

Choose one high-value process where a quick win builds momentum.



Step 3

Prove & tune

Run agents in parallel with manual; tune self-healing to your config.



Step 4

Scale on evidence

Expand to TaaS across processes once the metrics earn trust.



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Q&A

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