



AI MVP Production Readiness Checklist.

54 checks across nine areas where AI-generated MVPs fail in production. Print this, work through it with your team or hand it to whoever owns the platform.

01 Security & Secrets

No hard-coded credentials. No keys in the client bundle. Real rate limits.

- No secrets in source code or git history
- No service-role or admin keys exposed in client bundles
- Rate limits on every authenticated endpoint
- Rate limits on every unauthenticated endpoint (including auth itself)
- Dependencies scanned for known CVEs
- Container images scanned and rebuilt on a schedule
- CORS configured (not * on production)
- Security headers set (CSP, X-Frame-Options, HSTS, Referrer-Policy)

02 Auth & Access Control

Authorization decisions made on the server, not the client.

- Session tokens stored securely (httpOnly cookies or equivalent)
- Password reset and account recovery flows tested end-to-end
- Role and permission checks enforced server-side (never trust client)
- Multi-factor auth available for admin / privileged users
- Account lockout / brute-force protection on login
- Audit log for sensitive actions (role change, billing, data export)

03 Architecture

Intentional boundaries - not whatever the AI suggested first.

- Service boundaries are documented and intentional
- No business logic in the client
- Critical write paths have idempotency keys
- Background jobs survive worker restarts
- Concurrency model is explicit (no hidden race conditions)
- External API contracts are versioned

04 Infrastructure

Reproducible, least-privilege, with backups that have been restored at least once.

- Infrastructure is in code (Terraform / Pulumi / CDK - not the cloud console)
- Production, staging and dev environments are separated
- IAM follows least-privilege (no broad admin policies in production)
- Storage buckets are private by default
- Backups are automated AND tested by restoring
- Secrets live in a real secret manager, not env files in git



05 CI / CD

Deploy on a Tuesday, roll back on a Tuesday, sleep on a Tuesday.

- Production deploys are automated (no copying files to a server)
- Every deploy can be rolled back in under 5 minutes
- Staging uses the same image as production
- Database migrations are versioned and applied automatically
- Migrations are tested on a copy of production data
- CI runs the full test suite before merge
- Secrets are not exposed in build logs or artifacts

06 Observability

You find issues before your customers do.

- Structured logs (JSON) with consistent fields and a request ID
- Request IDs propagate across services
- Metrics cover the four golden signals (latency, traffic, errors, saturation)
- Distributed tracing for the critical path
- Alerts wake up a real human when production breaks
- Alerts are tuned - no daily false positives
- An external uptime check monitors a real user flow, not just the index page

07 Database & Scaling

The query plan you assume is the query plan you have.

- Indexes on every column used in a WHERE clause on a hot path
- No N+1 queries on critical endpoints
- Connection pooling configured (not a new connection per request)
- Read replicas in place if the workload is read-heavy
- Cache layer with explicit invalidation rules
- A realistic load test has been run against staging

08 Operational Readiness

Someone is responsible when the pager goes off - and they know what to do.

- Someone is on call for production
- Incident runbook exists (even a one-page doc counts)
- Customer support has a way to reach engineering
- Status page or equivalent communication channel
- Postmortems written for production incidents
- On-call rotation is sustainable (not one founder, always)



09 **AI-Generated Code Risks**

AI accelerates writing code. It does not accelerate reading code.

- Every AI-generated file has been read by a human
- No secrets copy-pasted from AI suggestions or example snippets
- AI-suggested dependencies exist and are maintained (no hallucinated packages)
- AI-generated SQL has been reviewed for injection risk
- AI-generated infrastructure code has been reviewed for over-permissive IAM
- AI-generated tests actually test the intended behaviour, not just the happy path