

# Cloud Migration & Architecture Review

A comprehensive 50-point checklist used by EVSORA cloud architects to assess production workloads across AWS, Azure, and GCP. Use it to score readiness, uncover risk, and build a defensible migration plan.

|              |       |          |       |
|--------------|-------|----------|-------|
| Prepared for | _____ | Date     | _____ |
| Workload     | _____ | Reviewer | _____ |

## How to use

Check each item. Mark N/A where it doesn't apply. Total your score per section out of the item count. Anything below 70% is a migration blocker.

## 1. Discovery & Current-State Assessment

10 items

- ☐ Complete inventory of applications, services, and dependencies documented
- ☐ Infrastructure topology diagram (compute, network, storage, data) captured
- ☐ Traffic patterns, peak load, and seasonality measured (req/s, p95, p99)
- ☐ Data volumes, growth rate, and retention policies documented
- ☐ Integration map of all third-party APIs and internal services produced
- ☐ Licensing model and per-environment costs of current stack itemized
- ☐ Compliance scope identified (SOC 2, HIPAA, PCI-DSS, GDPR, ISO 27001)
- ☐ Business-critical SLAs and RTO / RPO targets agreed with stakeholders
- ☐ Known technical debt, brittle components, and EOL software listed
- ☐ Stakeholder map with executive sponsor and migration owner confirmed

## 2. Target Architecture & Cloud Strategy

10 items

- ☐ Cloud provider(s) selected with justification (AWS / Azure / GCP / hybrid)
- ☐ Migration strategy chosen per workload: Rehost, Replatform, Refactor, Retire, Retain
- ☐ Multi-region vs single-region decision documented with failover model
- ☐ Account / subscription / project structure defined (landing zone)
- ☐ Network topology designed: VPCs, subnets, peering, transit, private endpoints
- ☐ Identity strategy defined: SSO, IAM roles, service accounts, least-privilege model
- ☐ Tagging & naming convention enforced via policy (env, owner, cost-center, app)
- ☐ Reference architecture diagram approved by security and platform leads

- ☐ Shared services design complete (logging, monitoring, secrets, DNS, CI/CD)
- ☐ Exit strategy / cloud portability considerations documented

### 3. Security, Identity & Compliance

10 items

- ☐ Zero-trust principles applied — no implicit trust between services
- ☐ MFA enforced for all human users including break-glass accounts
- ☐ Secrets stored in a managed vault (Secrets Manager, Key Vault, GCP SM) — never in code
- ☐ Encryption at rest enabled for all data stores with customer-managed keys where required
- ☐ TLS 1.2+ enforced end-to-end; HSTS, modern ciphers, no public S3/blob buckets
- ☐ WAF, DDoS protection, and rate limiting configured at the edge
- ☐ Audit logs centralized, immutable, and retained per compliance requirement
- ☐ Vulnerability scanning and SCA integrated into the CI/CD pipeline
- ☐ Incident response runbook with on-call rotation and severity matrix exists
- ☐ Data residency, sovereignty, and cross-border transfer rules validated

### 4. Reliability, Performance & Scalability

10 items

- ☐ SLO / SLI / error-budget defined for each user-facing service
- ☐ Auto-scaling policies tuned and load-tested against peak + 50%
- ☐ Multi-AZ deployment for stateful services (DB, cache, queue)
- ☐ Disaster recovery plan tested in the last 6 months with documented RTO/RPO
- ☐ Database backups automated, encrypted, and restore-tested
- ☐ Caching strategy in place (CDN, edge, app-tier) with measured hit ratio
- ☐ Circuit breakers, timeouts, and retry with backoff implemented
- ☐ Chaos / failure injection performed against critical paths
- ☐ Cold-start, queue-depth, and saturation alarms configured
- ☐ Performance baseline captured: p50/p95/p99 latency, throughput, error rate

### 5. Cost, FinOps & Operational Readiness

10 items

- ☐ Monthly cloud spend forecast modeled with 3 scenarios (low / base / peak)
- ☐ Reserved Instances / Savings Plans / Committed Use evaluated for steady workloads
- ☐ Spot / preemptible instances used where workload tolerates interruption
- ☐ Right-sizing report run and over-provisioned resources flagged
- ☐ Idle resources auto-stopped (non-prod off-hours, unattached volumes, old snapshots)
- ☐ Cost alerts configured per account/team with anomaly detection enabled

- ☐ Showback or chargeback to product teams operational
- ☐ Observability stack live: metrics, logs, traces with unified dashboards
- ☐ On-call rotation, runbooks, and post-incident review process in place
- ☐ Migration cutover plan with rollback, comms plan, and freeze windows approved

## Scorecard

Tally check marks per section. A workload is migration-ready when the total is  $\geq 80\%$ .

| Section                                   | Items     | Score            | Status                                                     |
|-------------------------------------------|-----------|------------------|------------------------------------------------------------|
| 1. Discovery & Current-State Assessment   | 10        | ____ / 10        | <input type="checkbox"/> Pass <input type="checkbox"/> Gap |
| 2. Target Architecture & Cloud Strategy   | 10        | ____ / 10        | <input type="checkbox"/> Pass <input type="checkbox"/> Gap |
| 3. Security, Identity & Compliance        | 10        | ____ / 10        | <input type="checkbox"/> Pass <input type="checkbox"/> Gap |
| 4. Reliability, Performance & Scalability | 10        | ____ / 10        | <input type="checkbox"/> Pass <input type="checkbox"/> Gap |
| 5. Cost, FinOps & Operational Readiness   | 10        | ____ / 10        | <input type="checkbox"/> Pass <input type="checkbox"/> Gap |
| <b>TOTAL</b>                              | <b>50</b> | <b>____ / 50</b> |                                                            |

## Notes & Findings

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### Ready for a guided review?

Book a free 45-minute Cloud Architecture Review with an EVSORA senior architect. We'll walk this checklist with your team, score your workload, and deliver a prioritized migration roadmap within 5 business days.

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