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AI Infrastructure & Readiness Assessment

Before investing in AI tools, verify whether your infrastructure can support AI in production. This assessment evaluates whether your company's infrastructure, operations, and governance can reliably support AI workloads in production — not experiments.

Infrastructure-led, it does not evaluate model quality, prompt engineering, or data science skills. Instead, it focuses on the operational realities of AI deployment.

6–8 minutes

Vendor-agnostic

Infrastructure focused

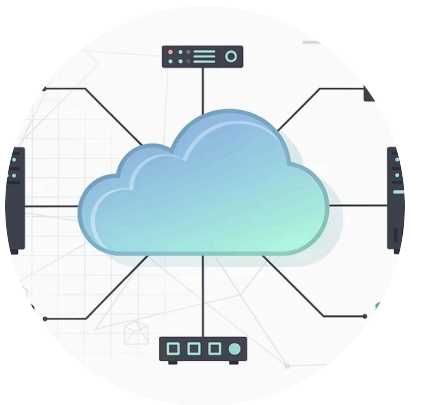
Who This Assessment Is For

Technical Leadership

CTOs, Heads of Engineering, Platform, Infrastructure, or DevOps teams

Digital Companies

SaaS, digital platforms, and data-driven organizations



Production Teams

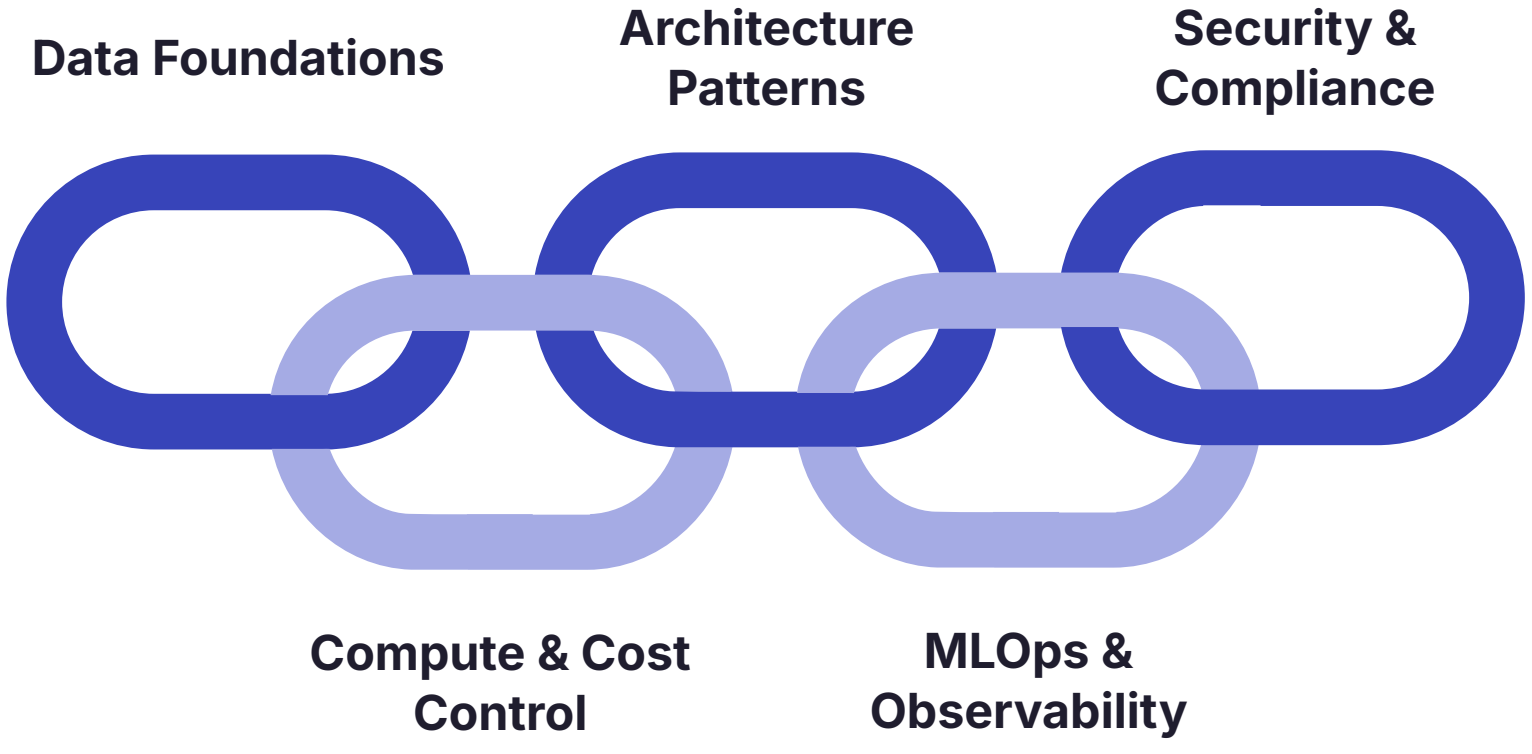
Teams running production systems in cloud or hybrid environments

Recommended prerequisite: Stable infrastructure baseline (e.g., completed IT Infrastructure Assessment)

OVERVIEW

Five AI-Critical Infrastructure Dimensions

The assessment covers five key areas where AI workloads create unique infrastructure challenges. Each dimension addresses specific failure points that emerge when AI systems move from experimentation to production.



These dimensions represent the infrastructure capabilities that determine whether AI can be deployed safely, scaled reliably, and governed effectively.

1. Data Foundations & Readiness

AI systems fail first at the data layer. Without solid data foundations, even the best models cannot succeed in production.

Data Ownership

Sources clearly identified and owned

Pipeline Reliability

Reproducible and dependable data flows

Path Separation

Training vs inference data isolated

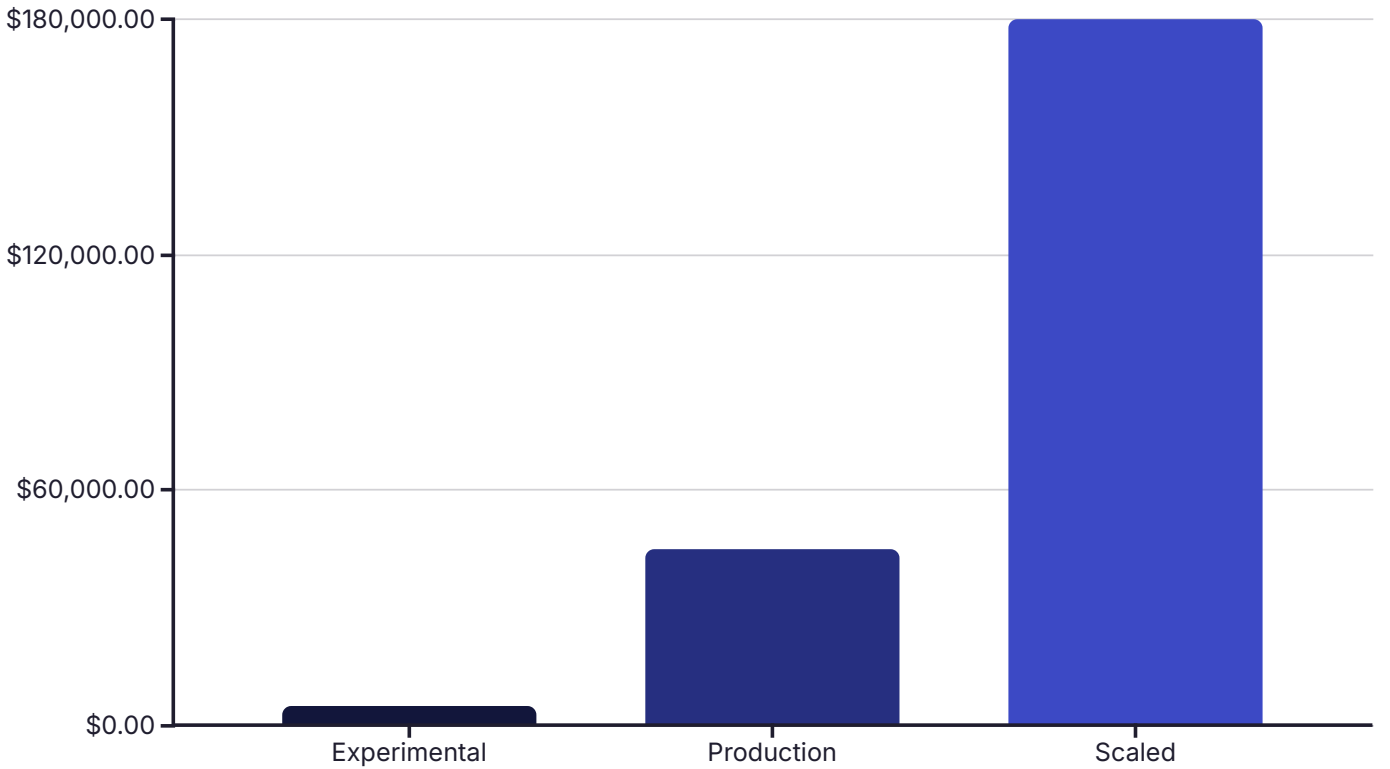
Data Sovereignty

Residency constraints understood

Access Control

Sensitive data controlled and auditable

2. Compute, Scaling & Cost Control



AI workloads change cost dynamics dramatically. What works in experimentation can create runaway costs in production.

Key assessment areas:

- Strategy for CPU vs GPU vs accelerator usage
- Ability to scale compute predictably
- Separation of experimental and production workloads
- Cost visibility per model or feature
- Guardrails to prevent runaway inference costs

3. AI-Ready Architecture Patterns

AI requires different architectural decisions than classic applications.

Traditional patterns often fail under AI workload characteristics.

Inference Design

Batch vs real-time inference patterns

Service Isolation

AI services separated from core systems

Failure Containment

AI errors don't cascade system-wide

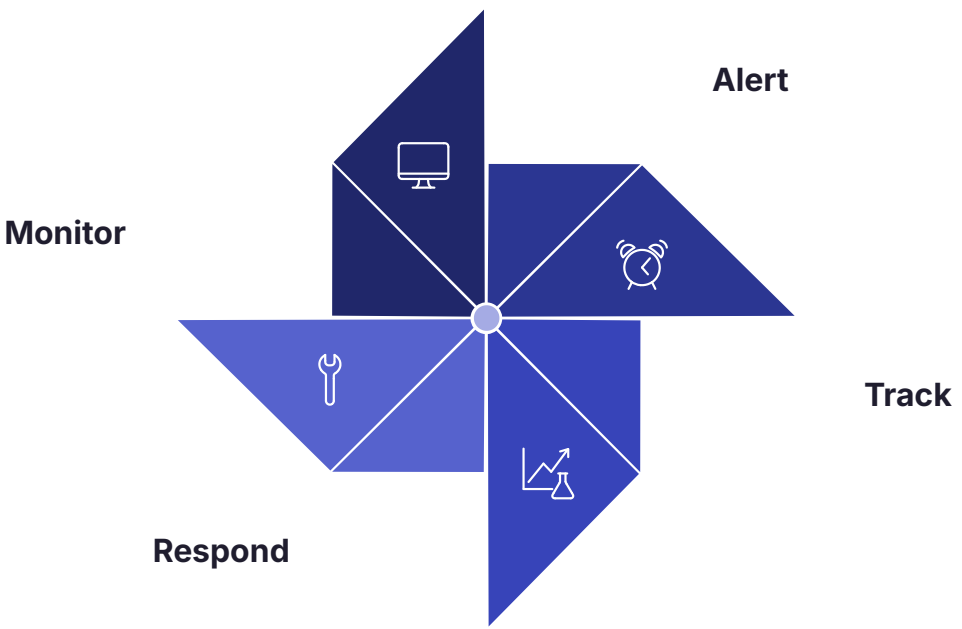
Version Control

Rollback and versioning strategies for models

Hybrid Architecture

Sovereign or hybrid considerations (EU-relevant)

4. MLOps, Observability & Operations



> *"If AI cannot be observed, it cannot be trusted."*

Operational excellence determines whether AI systems remain reliable under real-world conditions.

Critical capabilities:

- Monitoring beyond infrastructure metrics
- Alerting on latency, cost spikes, failures
- Model version tracking and deployment safety
- Clear operational ownership of AI systems
- Incident response readiness for AI outages

5. Security, Compliance & Control

AI increases the blast radius of security failures.

A single compromised endpoint or uncontrolled access point can expose entire datasets or model architectures.

Access Control

Models, endpoints, and datasets protected

Secrets Management

AI services and integrations secured

Endpoint Security

Inference endpoints properly exposed

Compliance Ready

GDPR and sector-specific rules met

Third-Party Risk

External AI dependencies assessed

ASSESSMENT PROCESS

How the Assessment Works

The assessment consists of **10-12 multiple-choice questions** based on real production scenarios, not theory. Questions focus on how AI systems would behave under load, failure, or audit conditions.

You receive:

- AI infrastructure readiness score
- Risk profile for AI adoption
- Cost and scalability red flags
- Clear recommendation on next steps

Sample Assessment Questions

1	**Data Foundations**	How is training data separated from production inference data? Where does sensitive or regulated data flow during AI processing?
2	**Compute & Cost**	Can you estimate the cost of one AI request or feature? What happens to your cloud bill if usage doubles overnight?
3	**Architecture**	Can AI services fail without impacting core application availability? How do you roll back a faulty model in production?
4	**Operations**	How quickly would you detect degraded AI output or latency? Who is on call when an AI system causes a production incident?
5	**Security & Compliance**	Who can access AI endpoints and model artifacts? Are external AI APIs reviewed from a compliance standpoint?

AI Infrastructure Readiness Profiles

Based on your assessment score, you'll receive one of four readiness profiles that indicate your organization's ability to deploy and scale AI workloads safely.

🔴 AI-Fragile

Infrastructure not suitable for production AI. High cost, security, and stability risk.

🟠 AI-Experimental

AI possible in pilots, but production use will expose major gaps.

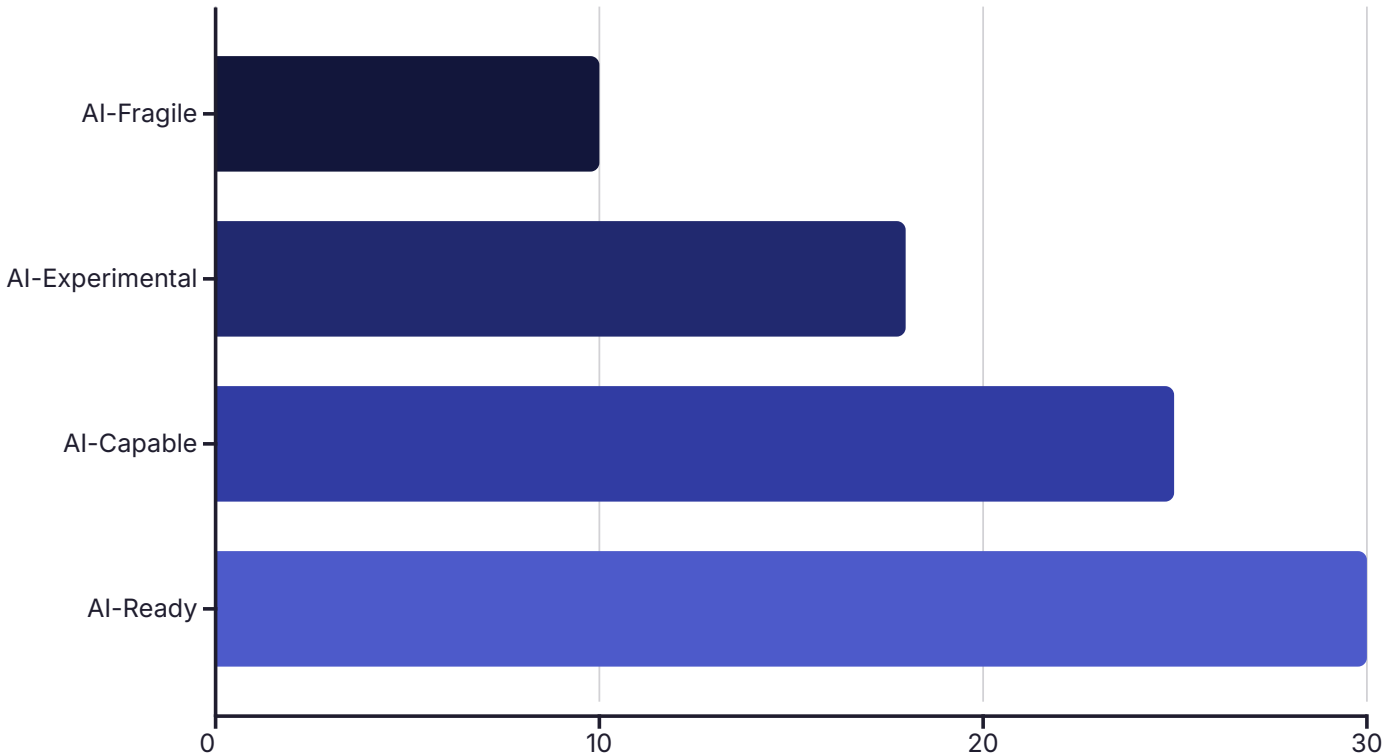
🟢 AI-Capable

Infrastructure can support controlled AI workloads with optimization needed.

🔵 AI-Ready & Scalable

AI systems can be deployed, scaled, governed, and optimized safely.

Assessment Scoring Framework



Each question awards 0–3 points based on your infrastructure maturity. With 10 questions total, the maximum score is 30 points.

Scoring breakdown:

- **0–10 points:** AI-Fragile profile
- **11–18 points:** AI-Experimental profile
- **19–25 points:** AI-Capable profile
- **26–30 points:** AI-Ready & Scalable profile

Connection to IT Infrastructure Assessment

Foundation First

Weak infrastructure scores mean you should stabilize your foundation before pursuing AI initiatives.

This AI readiness assessment is designed as a second step, not a replacement for foundational infrastructure evaluation.

Strong infrastructure scores indicate your baseline is solid, making AI readiness the next critical bottleneck to address. Without stable infrastructure, AI workloads will amplify existing problems rather than deliver value.

Sample Question: Data Foundations

Q1. How are data sources for AI workloads defined and owned?

- **0 points:** Data sources are ad-hoc or unclear
- **1 point:** Key sources known, ownership informal
- **2 points:** Data sources documented, ownership defined
- **3 points:** Data products clearly owned, versioned, and governed

Sample Question: Compute & Cost

Q4. Do you understand the cost of running AI features in production?

- **0 points:** No visibility into AI-related costs
- **1 point:** Rough monthly estimates
- **2 points:** Cost tracked per workload or service
- **3 points:** Cost tracked per model/feature with alerts

Sample Question: Security & Compliance

Q9. Who can access AI models, endpoints, and data?

- **0 points:** Broad or unmanaged access
- **1 point:** Basic role-based access
- **2 points:** Restricted access with reviews
- **3 points:** Least-privilege access with audit trails

Infrastructure Constraints Come First

> *"AI success is constrained by infrastructure long before models. This assessment makes those constraints visible — early."*

The most sophisticated AI models cannot overcome infrastructure limitations. Cost overruns, security breaches, and reliability failures stem from infrastructure gaps, not model quality.

By identifying these constraints early, you can address them systematically rather than discovering them through production incidents.

Why This Matters

Organizations that skip infrastructure assessment face:

- Unexpected cost escalation
- Security and compliance violations
- Reliability and performance issues
- Delayed time-to-value for AI initiatives

Ready to Assess Your AI Infrastructure?

Take the assessment to understand your organization's readiness for production AI workloads. In 6–8 minutes, you'll receive a comprehensive readiness profile with actionable recommendations.

6-8	5	10	4
Minutes	**Dimensions**	**Questions**	**Profiles**
Quick assessment time	Critical infrastructure areas	Production-focused scenarios	Readiness levels with guidance

NEXT STEPS

Typical Actions After Assessment

Depending on your results, we recommend specific infrastructure improvements to advance your AI readiness. Each profile requires different interventions.

AI Infrastructure Architecture

Design scalable, secure architecture patterns for AI workloads

Cost-Controlled Strategy

Implement inference and compute strategies with cost guardrails

MLOps & Observability

Set up monitoring, alerting, and operational workflows for AI

Sovereign Infrastructure

Prepare for regulated or EU-based AI deployments with hybrid design.

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Start Your AI Infrastructure Assessment Now

Takes less than 7 minutes. Get clarity on your infrastructure readiness for cloud migration, AI workloads, and EU regulatory requirements.

Start the Assessment | Book a Migration Strategy Call