



Are Your Mission-Critical Systems Ready for Agentic AI?

A governance-first readiness checklist for enterprise operations

Agentic AI introduces execution into enterprise systems, not just insight. This checklist helps enterprise leaders assess whether their core systems, operating model, and controls are ready to support agentic AI safely, compliantly, and at scale.

This is not a tool evaluation.

It is an operating-readiness assessment.

How to use this checklist

For each question, answer **Yes**, **Partially**, or **No**.



Mostly Yes: Your environment appears structurally ready for governed agentic AI.



Mixed responses: Agentic AI should remain limited to advisory or tightly constrained use cases.



Mostly No: Introducing agentic AI today may create material operational and compliance risk.

Areas with Partially or No responses may indicate material risk when introducing agentic AI into core systems.

Section 1 | Governance and policy control

Foundational controls should be in place before moving forward.

Do you enforce policy-as-code for automated actions, rather than relying only on written policies?

Yes Partially No

Can policies allow, constrain, or deny agentic actions in real time?

Yes Partially No

Are execution permissions role-based and identity-aware?

Yes Partially No

Can you dynamically restrict actions based on risk, context, or system state?

Yes Partially No

Why this matters: Agentic AI without embedded governance can create uncontrolled automation risk.

Section 2 | Execution safety and determinism

The difference between automation and unintended action.

Are all agentic actions validated before execution, rather than only monitored after the fact?

Yes Partially No

Is there a rule-based control layer preventing out-of-scope actions?

Yes Partially No

Can high-risk actions require human approval?

Yes Partially No

Can the system stop execution when confidence or context is insufficient?

Yes Partially No

Why this matters: Speed without validation can amplify risk faster than value.

Section 3 | Auditability, traceability, and reversibility

Critical requirements in regulated environments.

After an action, can you clearly answer what happened, why it happened, which policy allowed it, and which identity executed it?

Yes Partially No

Are all actions logged in a tamper-resistant audit trail?

Yes Partially No

Can you confidently roll back or remediate actions and outcomes?

Yes Partially No

Would this evidence stand up to a regulatory or internal audit review?

Yes Partially No

Why this matters: If you cannot explain how AI acted, it should not operate in production without tighter controls.

Section 4 | Diagnostic depth and operational context

Action without understanding creates risk.

Can AI trace issues from symptom to transaction to subsystem to job to code?

Yes Partially No

Does it understand system dependencies, rather than only reading metrics or logs?

Yes Partially No

Can it correlate data across applications, infrastructure, and business services?

Yes Partially No

Is it grounded in your operational domain, rather than returning generic model output?

Yes Partially No

Why this matters: Automated action without deep diagnosis can lead to inaccurate remediation.

Section 5 | Hybrid and core-system readiness

Where many platforms become difficult to scale.

Can AI operate where data lives, without forced data movement?

Yes Partially No

Are existing mainframe security and governance controls preserved?

Yes Partially No

Can the same operating model apply across mainframe, distributed, and cloud environments?

Yes Partially No

Does your approach avoid too many disconnected tools and manual stitching?

Yes Partially No

Why this matters: Core systems modernize more successfully through integration than replacement.

Section 6 | Skills gap and operational resilience

AI should reduce dependency on scarce experts.

Can junior staff diagnose issues that previously required deep subject matter experts?

Yes Partially No

Does AI explain why something happened, not just what happened?

Yes Partially No

Is institutional knowledge captured, reused, and improved over time?

Yes Partially No

Does agentic AI demonstrably reduce mean time to resolution in real incidents?

Yes Partially No

Why this matters: AI should strengthen operational resilience, not create new bottlenecks.

Interpreting your results



Mostly Yes:

Your environment appears structurally ready for governed agentic AI.



Mixed responses:

Agentic AI should remain limited to advisory or tightly constrained use cases.



Mostly No:

Introducing agentic AI today may create material operational and compliance risk.

Closing thought

Successful enterprises do not start agentic AI with models — they start with operating discipline. Platforms built for governed, operational-grade agentic AI, such as [Rocket® EVA™](#), are designed specifically to help enterprises move safely from experimentation to trusted operation.

If you'd like to discuss your checklist results or learn how Rocket can help you get your core systems AI-ready, connect with one of our experts. We're here to help you move forward with confidence.



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