

The Agentic Security Challenge

The rapid adoption of MCP enables AI agents to autonomously access systems, APIs, and data across the enterprise, unlocking powerful new efficiencies and automation. But agent interactions are dynamic, multi-step, and often executed without clear identity, delegation, or authorization controls. This creates a new class of risk where actions cannot be reliably attributed, controlled, or constrained, and where trust boundaries become increasingly difficult to enforce.

PointGuard AI MCP Security Gateway provides an identity-first, zero-trust enforcement point for agent ecosystems, combining identity, authorization, runtime protection, and data security into a centralized control layer. This ensures agents operate securely, transparently, and in alignment with enterprise policies across complex, multi-agent workflows.

Key Use Cases

- Identify agents and manage delegated authority
- Enforce least-privilege access control for MCP
- Prevent threats that can derail agents
- Protect sensitive data across agent workflows
- Centralize agent, tool, and policy governance



Agentic Security Starts with Identity

AI agents introduce a new identity paradigm. Unlike traditional applications, agents operate across multiple systems and often act on behalf of users, services, or other agents. Without clear oversight of identity propagation and delegation, organizations lose visibility and control over which entities are performing authorized actions.

The PointGuard MCP Security Gateway establishes a unified identity plane for agents, ensuring every action is tied to a verified source and explicit authority. Agent identities are uniquely defined and seamlessly integrated with enterprise IAM systems enabling security teams to:

- Propagate end-user identity via OAuth tokens
- Enforce “on-behalf-of” (OBO) delegation
- Track agent and user identity per request
- Isolate credentials and shared secrets
- Audit delegation chains across workflows

Intent-Based Access Control

A major security gap in MCP environments is that agents can invoke tools with inadequate permission boundaries. The MCP Security Gateway enables intent-based access control at the tool-call level.

This enforces least privilege, including separation of read versus write operations. For example, an agent may be allowed to retrieve data from a CRM tool but blocked from performing update actions unless explicitly authorized.

Access control policies can be applied per agent, per tool, and per operation, enabling granular control over agent behavior and business impact, so you can:

- Enforce least privilege for agents and tool-calls
- Separate read, write, and update actions
- Apply access rules per agent, tools, and operations
- Reduce risk from over-permissioned workflows

Discovery and Agentic Inventory

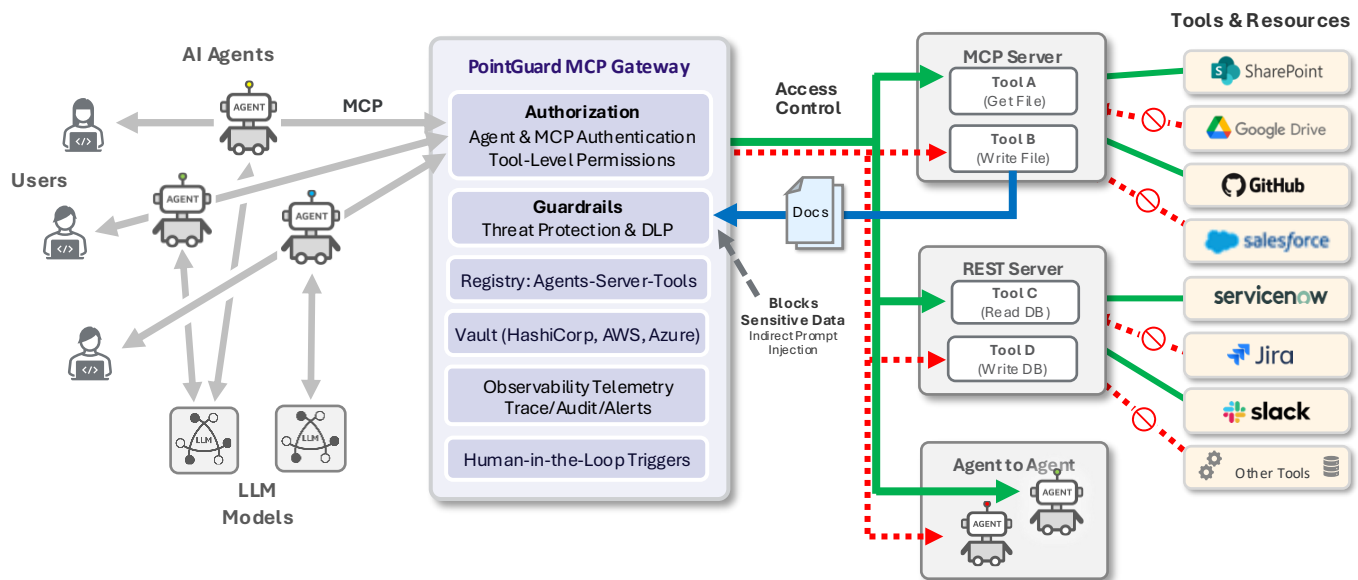
The PointGuard platform provides centralized discovery and inventory of MCP servers, tools, and agents, including how they connect and what capabilities they expose. This lets you:

- Discover agents, MCP servers, and AI tools
- Inventory of tool capabilities and connections
- Access an extensive KB of MCP server risks
- Enable centralized visibility and governance

Security-Aware Observability

The MCP Gateway provides real-time visibility into agent-to-tool, and agent-to-agent traffic, via OpenTelemetry traces, without requiring customers to deploy SDKs inside each agent. Your team can easily:

- Generate OpenTelemetry traces at the gateway
- Have full agent-to-tool and agent-to-agent visibility
- Support troubleshooting, auditing, and anomaly detection workflows



Intelligent Guardrails

The gateway enforces guardrails to monitor prompts, responses, and tool calls for prompt injection, jailbreaks, data poisoning, and malicious content. Powered by fine-tuned models, controls are applied across workflow stages based on runtime context, tools, and data sources.

- Detect prompt injection and jailbreak attempts
- Filter content pre- and post-execution
- Enforce controls across agent execution paths

Advanced Threat Protection

PointGuard AI protects against the broader agent attack surface, including prompt injection, jailbreaks, and malicious content designed to manipulate agent behavior. It applies contextual policy enforcement across agent workflows to detect and stop threats in real time.

- Detect prompt injection and adversarial inputs
- Monitor prompts, responses, and MCP activity
- Stop exploitation of execution environments

Indirect Prompt Injection Protection

PointGuard inspects and controls all retrieved inputs before they reach the model or influence execution, preventing indirect prompt injection from external content, files, code, and metadata that could manipulate agent behavior.

- Scan retrieved content before LLM ingestion
- Block embedded malicious instructions
- Inspect tool outputs prior to processing
- Prevent unauthorized downstream actions

AI Data Loss Prevention

The platform enforces controls to prevent data leaks across agent workflows. Contextual, business-aware controls and automated actions, complying with PCI, PHI, GDPR, HIPAA, and more, to:

- Prevent sensitive data leaks via agents
- Block prompt injection-driven exfiltration
- Automate actions (block, mask, redact, notify)
- Enforce consistent policies across workflows

REST API to MCP Tool Virtualization

Scale tool adoption with virtualization of existing enterprise REST APIs into MCP-accessible tools. This allows teams to expose API-based systems to agents through MCP without rewriting each integration.

- Turn existing REST APIs into MCP-enabled tools
- Connect tools without rewriting legacy APIs
- Enforce new policies across existing services
- Scale MCP adoption across large environments

Human-in-the-Loop Triggers

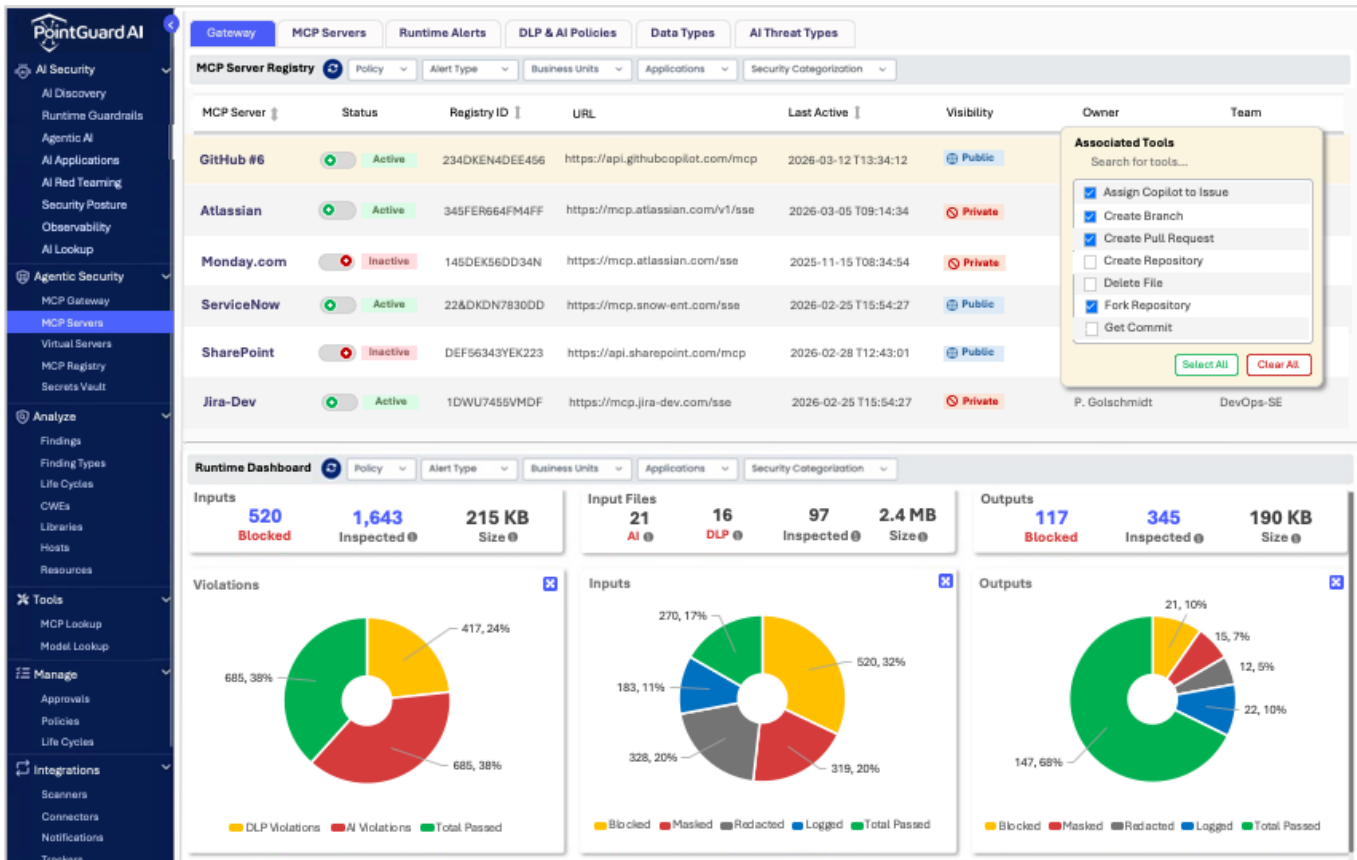
Some agent actions require explicit human approval. PointGuard enables policy-driven intervention to ensure sensitive or high-risk operations are reviewed and authorized before execution.

- Trigger policy-based execution pauses
- Enable approval workflows (Slack, email, etc.)
- Require step-up authentication as needed
- Define escalation and timeout policies

Secrets Management Vault

Agents require credential access, but poor handling introduces risk. PointGuard integrates with enterprise vaults to enforce identity-based access and eliminate exposure across agent workflows.

- Enforce identity-based access to secrets
- Eliminate static and shared credentials
- Prevent secrets in prompts and logs
- Support rotation and lifecycle management

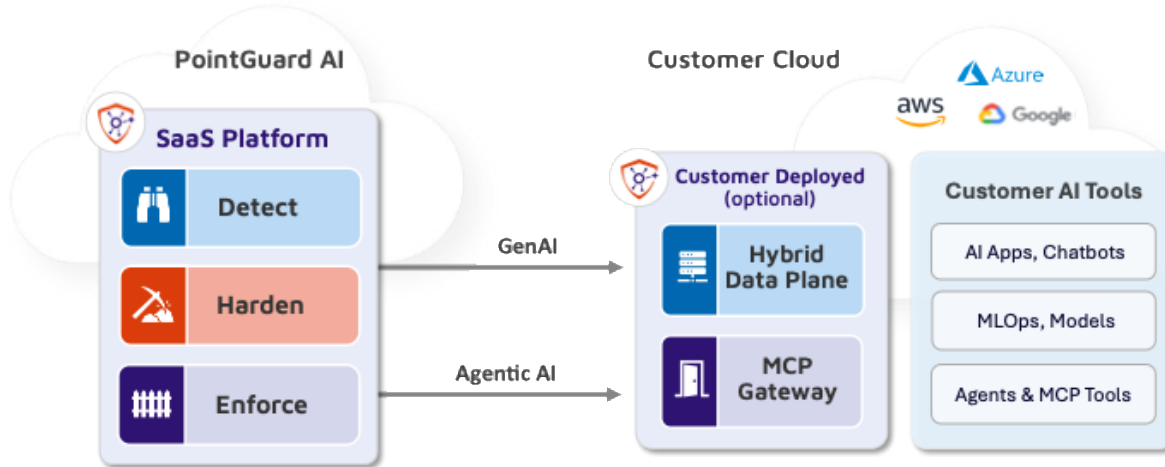


MCP Gateway and guardrail dashboard

Hybrid Deployment Options for Data Sovereignty

The platform adapts to diverse security architectures, regulatory environments, and performance needs. Whether organizations require rapid deployment or strict data residency controls, PointGuard AI provides flexible models that preserve sovereignty, maintain control, and optimize performance for AI agents and tool interactions. This includes:

- **SaaS Platform provides fastest time to value**
- **Hybrid data plane in customer cloud to ensure data sovereignty**
- **MCP Gateway in customer cloud provides complete control**
- **Localized traffic reduces latency and protects sensitive data**



Flexible platform deployment options

Part of the PointGuard AI Platform

PointGuard AI uniquely secures both agentic systems and AI applications. Through a single, unified management console all components work seamlessly together to secure the complete AI lifecycle, from discovery to data protection.

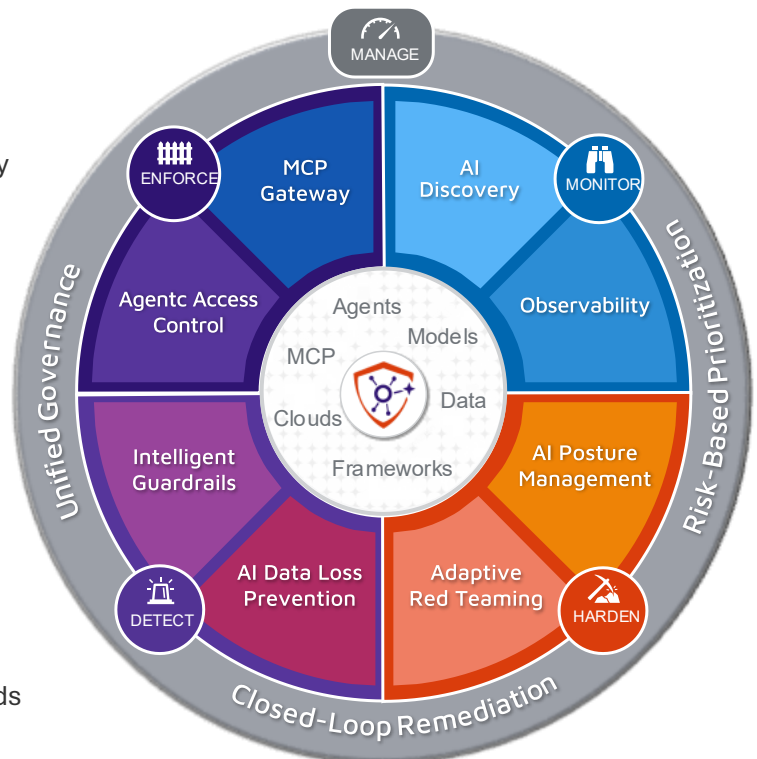
Solutions Built for the Agentic Era

As AI systems evolve into autonomous, interconnected agents, security must evolve with them. The PointGuard AI MCP Gateway delivers context-aware, policy-driven protection designed for today's AI systems and tomorrow's agentic environments.

Get Started

View demos and detailed technical content on our website or schedule a call to discuss your specific needs with our security experts.

Visit: www.pointguardai.com/demo



The full PointGuard AI Agentic Security Platform

Agentic Identity & Access Control		Discovery & Agentic Inventory	
Agent Identity	Manages explicit dual identities (agent + users)	Agent Discovery	Identifies agents across the AI platforms & environments
Authentication	Integrates seamlessly with enterprise IAM systems	MCP Server Registry	Maintains inventory of MCP servers and endpoints
Granular Access Control	Applies policies per agent, tool, and operation	Tool & Capability Mapping	Maps tool functions, permissions, and dependencies
Read / Write Separation	Differentiates retrieval vs. modification actions	Ecosystem Visibility	Provides centralized governance across agentic systems
Approval-Based Workflows	Requires human approval for high-risk operations	Observability & Monitoring	
Runtime Enforcement		Agent-to-Tool Visibility	Tracks interactions between agents and tools
Agents & Workflows	Controls agent behavior across tool interactions and execution flows	Agent-to-Agent Visibility	Monitors multi-agent workflows
MCP Servers	Governs communication between agents and MCP-enabled services	OpenTelemetry Tracing	Generates trace-level observability without SDK deployment
Tools & APIs	Enforces policies on tool invocation and API-based actions	Audit & Forensics	Supports investigation, compliance, and anomaly detection
Agent-to-Agent Interactions	Monitors and controls cross-agent communication and coordination	MCP Ecosystem Enablement	
Context & Policy Engine		REST API Virtualization	Converts existing APIs into MCP-compatible tools
Intent-Based Access Control	Evaluates the purpose and risk of each action	Legacy System Integration	Connects enterprise systems without rewriting APIs
Business Context Awareness	Applies policies based on role, environment, and data sensitivity	Policy Enforcement Across Tools	Applies consistent controls to all integrations
Dynamic Policy Enforcement	Adjusts controls in real time based on conditions	Scalable MCP Adoption	Enables safe expansion of agent capabilities
Risk-Adaptive Decisions	Balances security with operational efficiency	Advanced Threat Protection	
AI Threat Guardrails		Stored Prompt Injection Defense	Blocks malicious instructions embedded in enterprise data
Prompt Injection	Detects and blocks direct prompt injection attempts	Tool Content Scanning	Inspects retrieved data before it reaches models
Indirect Prompt Injection	Blocks malicious instructions embedded in content, tools, or data	Local MCP Server Protection	Secures local host and exposed MCP endpoints
Jailbreak Detection	Identifies attempts to bypass AI controls	Browser-Based Attack Mitigation	Prevents exploitation via client-side discovery and abuse
Multi-Stage Guardrails	Applies controls pre- and post-tool execution	Deployment Options	
AI DLP / Data Protect		SaaS Deployment	Fast time to value with managed infrastructure
Inline Data Inspection	Analyzes inputs and outputs in real time	Hybrid Data Plane	Maintains data sovereignty in customer environments for data & policies
Sensitive Data Detection	Identifies PII, PHI, and enterprise-sensitive data	Customer-Hosted Gateway	Customer-Hosted Gateway
Exfiltration Prevention	Blocks unauthorized data movement through agents	Localized Processing	Reduces latency and protects sensitive data
Policy-Based Data Controls	Enforces consistent protection across workflows		