

Patch Management & Compliance

Automated Endpoint Patching at Scale

ManageEngine Endpoint Central · Windows · macOS · Linux · 1,200 Devices



<p>1,200 Devices Managed 840W · 350M · 10L</p>	<p>97.5% Fleet Compliance Weighted avg.</p>	<p>83%↓ Manual Effort 120 → 20 hrs/mo</p>	<p>72 hrs Critical MTTP Was 18-21 days</p>	<p>1 Day Audit Readiness Was 2-3 weeks</p>
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“1,200 endpoints. Three operating systems. One tool. Zero missed patches in production — 97.5% fleet-wide compliance delivered.”

<p>01 THE PROBLEM</p> <p>Before this implementation, patch cycles ran 18-21 days, audit prep consumed weeks, and three separate OS platforms had no unified compliance view. Every unpatched endpoint was an open attack surface.</p> <ul style="list-style-type: none"> ▶ No single tool covered Windows, macOS & Linux ▶ 120+ engineer-hours/month on manual patching ▶ Zero automated rollback on failed deployments ▶ Compliance visibility required weeks of audit prep 	<p>03 COMPLIANCE BY PLATFORM</p> <table border="1"> <thead> <tr> <th>Platform</th> <th>Devices</th> <th>Fleet</th> <th>Compliance</th> </tr> </thead> <tbody> <tr> <td>Windows</td> <td>840</td> <td>70%</td> <td>98%</td> </tr> <tr> <td>macOS</td> <td>350</td> <td>29%</td> <td>95%</td> </tr> <tr> <td>Linux</td> <td>10</td> <td>1%</td> <td>99%</td> </tr> <tr> <td>TOTAL</td> <td>1,200</td> <td>100%</td> <td>97.5%</td> </tr> </tbody> </table>	Platform	Devices	Fleet	Compliance	Windows	840	70%	98%	macOS	350	29%	95%	Linux	10	1%	99%	TOTAL	1,200	100%	97.5%	<p>05 BEFORE VS. AFTER</p> <table border="1"> <thead> <tr> <th>Metric</th> <th>Before</th> <th>After</th> <th>Gain</th> </tr> </thead> <tbody> <tr> <td>Critical Patch Speed</td> <td>18-21 days</td> <td>≤ 72 hours</td> <td>↓ 90%</td> </tr> <tr> <td>Fleet Compliance</td> <td>~68%</td> <td>97.5%</td> <td>+43%</td> </tr> <tr> <td>Manual Effort/Mo.</td> <td>~120 hrs</td> <td>≤ 20 hrs</td> <td>↓ 83%</td> </tr> <tr> <td>Rollback on Failure</td> <td>Manual/days</td> <td>Auto <15 min</td> <td>✓ 100%</td> </tr> <tr> <td>Audit Readiness</td> <td>2-3 weeks</td> <td>Same day</td> <td>∞</td> </tr> </tbody> </table>	Metric	Before	After	Gain	Critical Patch Speed	18-21 days	≤ 72 hours	↓ 90%	Fleet Compliance	~68%	97.5%	+43%	Manual Effort/Mo.	~120 hrs	≤ 20 hrs	↓ 83%	Rollback on Failure	Manual/days	Auto <15 min	✓ 100%	Audit Readiness	2-3 weeks	Same day	∞
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<p>02 SOLUTION — MEEC</p> <p>MEEC was deployed as a single-agent, cross-platform patch engine across all 1,200 devices, integrated with Azure AD for RBAC-scoped policy enforcement and ring-based rollout.</p> <ul style="list-style-type: none"> ▶ Ring rollout: Pilot 5% → UAT 20% → Prod 75% ▶ CVE scoring: Severity × asset-criticality priority ▶ Auto-rollback: Snapshot restore on failure breach ▶ Baselines: CIS Benchmarks + NIST SP 800-40 ▶ Single-pane visibility across all 3 OS platforms ▶ Zero production rollback failures post-deployment 	<p>04 TOOLS & STANDARDS</p> <ul style="list-style-type: none"> ▶ ManageEngine Endpoint Central — unified agent, all 3 OS ▶ Azure AD + RBAC — identity-scoped deployment policies ▶ Azure Sentinel — real-time compliance telemetry & alerts ▶ Python & PowerShell — rollback & health-check scripts ▶ CIS Benchmarks / NIST SP 800-40 — policy framework ▶ Ring-gated deployment with automated health gates 	<p>06 CONCLUSION</p> <p>These are not projections — they are production outcomes.</p> <p>A 97.5% compliance rate across 1,200 mixed-OS endpoints, delivered through a single unified tool, with 83% less manual effort and same-day audit readiness.</p> <p><i>Security and operational efficiency are not a trade-off. They are an engineering problem. This is how it gets solved.</i></p>																																												

<p>Zero missed patches in production Production Outcome</p>	<p>97.5% fleet-wide compliance Across 1,200 devices</p>	<p>83% reduction in manual effort 120 → 20 hrs/month</p>	<p>Same-day audit readiness Was 2-3 weeks</p>
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