Predictive monitoring that catches Ignition failures before plants feel them

Plantformance · Cross-industry

Plantformance built a predictive FactoryBrain monitoring platform that spots disk exhaustion, expiring certificates, privilege escalation and hardening drift early, across 3,000+ hosted Ignition applications, and fixes them before production is affected.

3,000+

hosted Ignition applications monitored

THE PROBLEM

Industrial Ignition deployments rarely fail all at once. They degrade quietly. Heavy writes slowly fill disks. TLS, OPC-UA, PLC and database certificates reach their expiry dates. Unprivileged users gain rights they should not have. Project hardening settings drift away from their baseline. None of this shows up on a factory floor until something stops, and by then production is already halted. The goal was to catch every one of these signals early, while there is still time to act.

HOW WE DID IT

Over multiple years, Plantformance built a predictive monitoring platform for FactoryBrain that tracks granular OS, network, database and Ignition metrics. Project hardening is audited twice daily. Automated checks look for unauthorized privilege escalation. Certificate expiration is tracked across Ignition, OPC-UA, PLC and database certificates. Disk usage is forecast so exhaustion is predicted before it happens, not discovered after. Together these checks turn silent degradation into early, actionable warnings that engineers can resolve on their own schedule instead of during an outage.

BEFORE

Basic server monitoring tracked only surface metrics such as CPU and RAM. It reacted after an alert or outage had already disrupted plant operations.

AFTER

Plantformance detects anomalies, unauthorized changes and impending resource exhaustion early, and resolves them before factories experience any impact.

RESULTS

- Proactive issue detection across 3,000+ hosted Ignition applications
- Unplanned outages from certificate expirations prevented before clients notice
- Disk exhaustion forecast and resolved ahead of time
- Security and hardening drift caught by twice-daily audits

Plantformance products and services: FactoryBrain

PLANT FORMANCE

NEXT STEP

Planning a project like this?

Talk to an Ignition engineer about your sites, timeline and architecture. We will tell you honestly what it takes.

Contact Plantformance

Read this case online and see more Ignition projects: plantformance.com/case-studies/predictive-ignition-monitoring · all case studies

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Plantformance is an Inductive Automation Alliance Partner that helps enterprises deploy, secure, and scale Ignition across sites through plug-and-play modules, turnkey zero-maintenance HMI hardware, and 24/7 managed infrastructure.

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