



AUTOMATED DELIVERY OF PREVENTIVE MAINTENANCE ARTIFACTS

EXECUTIVE SUMMARY

New Angle Systems LLC, a technology-forward organization operating critical production workloads across AWS, a colocation facility, and an on-premises data center, sought to optimize the efficiency of its IT operations. The company's IT staff was dedicating significant time each month to manually perform preventive maintenance on production servers across these diverse environments. To reclaim engineering hours and reduce labor costs, New Angle Systems LLC partnered with Innovative Digital Transformation LLC (IDT) to design and implement an automated solution that could streamline and standardize this recurring operational task.

Maintaining operational reliability across our hybrid infrastructure required significant time from our IT team each month. By partnering with Innovative Digital Transformation, we were able to implement a smart and automated solution that not only reduced the manual workload but also improved consistency and visibility across AWS, colocation, and on-prem systems. IDT delivered exactly what we needed with a thoughtful, structured approach. We highly value their expertise and consider them a reliable and strategic partner.

Eric Saito - Principal
New Angle Systems LLC

THE CHALLENGE

New Angle Systems LLC needed a way to reduce the substantial time commitment required of its IT team to complete monthly manual preventive maintenance activities. The scope of this work extended across:

- AWS-based EC2 production servers
- Servers housed in a colocation facility
- On-premises infrastructure in the data center

These manual checkups were essential for maintaining operational reliability and compliance but were resource-intensive and repetitive in nature. The company sought to eliminate this overhead while ensuring all systems remained continuously monitored and maintained.

IDT SOLUTION

IDT engaged with New Angle Systems LLC to develop and deploy an automated system designed specifically to conduct preventive maintenance checkups across all three environments. The solution featured:

- Automated diagnostics and health check routines running across EC2 instances and hybrid infrastructure.
- AWS CloudWatch for monitoring system health and performance metrics.
- AWS Inspector for security and vulnerability scanning.
- Secure artifact delivery of maintenance results to a central repository, with storage handled via Amazon S3 and encryption via AWS KMS.
- Notification and alerting integrated through Amazon SES.
- Networking consistency and isolation managed via Amazon VPC and Route53.

The system ensured that relevant logs, reports, and diagnostics were collected and delivered regularly without the need for manual intervention, saving the IT team valuable time and reducing the potential for human error.

THE BENEFITS

- Significant time savings by eliminating manual monthly maintenance tasks across AWS, colocation, and on-prem environments.
- Improved IT team productivity, allowing engineers to focus on higher-value initiatives instead of repetitive checks.
- Centralized visibility into maintenance artifacts and diagnostics, improving audit readiness and operational transparency.
- Enhanced consistency and accuracy of maintenance routines through automation.
- Reduced labor costs and minimized the risk of human error through standardized processes.
- Strengthened security and compliance posture using automated vulnerability checks and secure data handling practices.

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