CLIENT PROJECTS

Case Study Collection

Alpha Next Inc.

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Cloud infrastructure. Cybersecurity. Digital transformation.

About This Collection

Ten projects across a range of industries, presented as challenges, actions and results. Some client names are withheld at the client's request. Figures are measured outcomes and do not guarantee equivalent results elsewhere.

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CASE 01

Migrating core systems to AWS reduced infrastructure operating costs by 37%

Legacy on-premises core systems were migrated to AWS in stages. Scaling capacity only during peak periods reduced annual operating costs by 37%.

Client	Company A, a major precision equipment manufacturer
Scale	Approximately 4,200 employees
Industry	Manufacturing
Project period	May 2024-March 2025 (11 months)
Business Challenge	Cloud Migration / Cost Optimization

Challenges

- Hardware support was due to end in 18 months, making an early decision on replacement essential.

- Servers were provisioned continuously for month-end processing peaks, while normal utilization remained below 20%.

- The engineers responsible for the original system had left, and configuration knowledge depended on individuals.

Our Approach

- We spent two months inventorying and assessing existing assets, classifying systems for rehosting, rebuilding or retirement.

- Lower-impact peripheral systems moved first, followed by a coordinated switch of the core system during a quiet period at the end of the fiscal year.

- Auto Scaling and scheduled shutdowns automatically reduced resources overnight and on holidays.

- Infrastructure as Code centralized configuration in a repository rather than relying on procedural documents and individual knowledge.

Results

Infrastructure operating costs	Month-end processing time	Recovery time objective (RTO)
37% reduction	**6.5 hours to 2.2 hours**	**8 hours to 45 minutes**

Client Feedback

"The cost savings mattered, but having our configuration recorded as code made the biggest difference. We can now reproduce the same environment even when staff change." - Head of Information Systems

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CASE 02

Zero-trust infrastructure enabled secure access to business systems from outside the office

We moved to identity-based access control to address VPN congestion and gaps in removing former employees' access rights.

Client	Regional Bank B
Scale	Approximately 1,800 employees
Industry	Finance & Insurance
Project period	September 2024-June 2025 (10 months)
Business Challenge	Security Improvement

Challenges

- Increased remote working congested the VPN appliances, causing unstable connections during morning and evening peaks.

- Access changes after transfers and departures relied on requests; an audit identified discrepancies between intended and actual permissions.

- The bank needed audit trails consistent with the supervisory guidelines applicable to financial institutions.

Our Approach

- We made the HR system the authoritative source for access rights and automated identity provisioning, applying transfers and departures on the same day.

- Access conditions were defined for each business system, including device, location and multifactor authentication, gradually reducing reliance on the VPN.

- All privileged activity was recorded, and quarterly access-review reports were generated automatically.

- Deployment began with a three-department pilot and expanded across the organization over six months.

Results

Concurrent VPN connections

1,400 to 210

Access-review workload

40 hours/month to 6 hours/month

Former employees' accounts remaining active

Average 11 days to same day

Client Feedback

"Audit findings fell to zero. Being able to enforce controls through the system has made a significant difference." - Risk Management Department

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CASE 03

Store-level demand forecasting reduced fresh-food waste by 22%

A demand forecasting platform combined point-of-sale and weather data. Recommended order quantities standardized a process that previously depended on individual experience.

Client	Company C, a food supermarket operator
Scale	128 stores
Industry	Retail & Distribution
Project period	January-October 2025 (10 months)
Business Challenge	Data Utilization / Cloud Migration

Challenges

- Fresh-food ordering depended on individual experience, with waste rates varying by almost threefold between stores.
- Point-of-sale data remained inside individual store systems, preventing analysis across locations at headquarters.
- With only two analysts, building the platform entirely in-house was not practical.

Our Approach

- We built a platform that consolidated daily point-of-sale data from every store and combined it with weather, calendar and promotional information.
- Category-level demand models displayed recommended quantities on ordering terminals.
- Rather than automatically placing orders, the system retained final decisions with store staff to support understanding and adoption.
- Headquarters dashboards showed differences between forecasts and actual results for each store.

Results

Fresh-food waste	Ordering workload	Variation in waste rates between stores
22% reduction	**5.5 hours saved per store each week**	**41% improvement in standard deviation**

Client Feedback

"It worked because the recommendations were understandable and usable for staff, rather than imposed on them." - Merchandising Division

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CASE 04

Building an online resident application platform on Government Cloud

We digitized 42 frequently used procedures that previously required paper forms and counter visits, reducing annual in-person visits by approximately 60,000.

Client	City D, a regional urban center
Scale	Approximately 340,000 residents
Industry	Government & Municipalities
Project period	April 2024-September 2025 (18 months)
Business Challenge	Cloud Migration / Security Improvement

Challenges

- Each application procedure used a different form, and priorities for digitization were unclear.
- Handling personal information required compliance with municipal network-separation requirements.
- Implementation could not increase the operational workload of municipal staff.

Our Approach

- We classified all 398 procedures by application volume and processing effort, selecting 42 high-value procedures for the first phase.
- We designed communication paths that met three-tier network-separation requirements and agreed data-transfer methods with the relevant departments.
- Applications were imported into existing business systems, avoiding the need for staff to learn new interfaces.
- To accommodate older users, we reduced the average form to 11 input fields.

Results

Procedures made available online	Annual counter visits	Processing time per application
42 procedures	**Approximately 60,000 fewer visits**	**Average 18 minutes to 7 minutes**

Client Feedback

"They stayed true to the design principle of not making our staff learn another set of operations." - Digital Promotion Department

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CASE 05

Redesigning ransomware-resilient backups established a four-hour recovery objective

Following an incident elsewhere in the healthcare sector, we redesigned backup retention and recovery procedures. Recovery drills confirmed restoration within the target time.

Client	Healthcare Organization E
Scale	420 hospital beds
Industry	Healthcare
Project period	February-November 2025 (10 months)
Business Challenge	Security Improvement / Operations Automation

Challenges

- Backups were being taken, but restoration had not been tested in practice for several years.
- Backup storage shared the production network, creating a risk that both would be encrypted in the same attack.
- Round-the-clock operations made it difficult to secure downtime for testing.

Our Approach

- We established immutable backup storage on a segregated network.
- Daily, weekly and monthly retention policies were redefined according to business impact.
- A permanent isolated recovery environment enabled testing without stopping production.
- Twice-yearly recovery drills became part of operations, keeping the process effective through practice rather than documentation alone.

Results

Recovery time objective (RTO)	Recovery drills	Backup protection
Previously undefined to 4 hours	**Scheduled twice a year**	**100% immutable storage**

Client Feedback

"Assuming backups existed was not enough. Having the drills included in the design gave us confidence." - Administrative Director

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CASE 06

Automated monitoring and first response reduced overnight manual operations by 87%

We consolidated excessive alerts and automated initial responses to relieve a heavily burdened operations team.

Client	Company F, a telecommunications service provider
Scale	Approximately 900 employees
Industry	IT & Telecommunications
Project period	April 2025-January 2026 (10 months)
Business Challenge	Operations Automation / Cost Optimization

Challenges

- Around 12,000 alerts were generated each month, most of which were noise requiring no action.
- All overnight first responses were manual, placing a persistent burden on on-call staff.
- Critical alerts were being buried in the noise, delaying detection.

Our Approach

- We analyzed two years of alert history, identified conditions that had never required action and redesigned the thresholds.
- Routine first responses, such as restarts and disk cleanup, were automated, with staff notified of the results.
- Severity was redefined in three levels, with explicit criteria for waking staff overnight.
- Escalation was reserved for issues that automated responses could not resolve.

Results

Monthly alerts	Overnight manual responses	Time to detect major incidents
12,000 to 1,450	**87% reduction**	**Average 24 minutes to 4 minutes**

Client Feedback

"The turning point was focusing on keeping meaningful alerts, rather than simply reducing the number of alerts." - Operations Department

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CASE 07

Digitizing site reports while establishing an in-house development team

We gradually moved development from external vendors to an internal team, enabling independent delivery within nine months.

Client	Company G, a general construction contractor
Scale	Approximately 2,600 employees
Industry	Construction & Real Estate
Project period	June 2025-March 2026 (10 months)
Business Challenge	In-house Development / Data Utilization

Challenges

- Implementing improvement requests from construction sites took an average of four months when outsourced.
- No internal staff had development experience, making it difficult to decide where to begin.
- Despite a stated goal of in-house development, even requirements definition remained dependent on external vendors.

Our Approach

- During the first three months, we led delivery while four internal members worked alongside us through pair programming.
- For the next three months, internal staff implemented changes while we provided reviews and design support.
- In the final three months, we transferred monitoring and procedures so that the internal team could handle operations and incidents independently.
- We documented which work should stay in-house and which should remain outsourced, avoiding an impractical all-or-nothing approach.

Results

Time to implement improvement requests	Internal development team	Business applications developed in-house
Average 4 months to 3 weeks	**0 to 4 members**	**7 applications**

Client Feedback

"They worked with us until we could do it ourselves, then trusted us to take over. The balance was just right." - Digital Transformation Office

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CASE 08

Integrating equipment data across six factories prevented 31 unplanned shutdowns per year

Equipment data previously isolated within individual factories was consolidated on a shared platform. Changes in vibration and temperature trends enabled predictive maintenance and fewer unplanned shutdowns.

Client	Company H, an automotive parts manufacturer
Scale	6 factories
Industry	Manufacturing
Project period	October 2024-August 2025 (11 months)
Business Challenge	Data Utilization / Cloud Migration

Challenges

- Different equipment vendors and data formats at each factory prevented cross-site comparisons.
- Maintenance was mainly reactive, and unexpected shutdowns repeatedly disrupted production plans.
- The project could not add new terminals or extra tasks for production staff.

Our Approach

- Gateways converted signals from existing sensors, collecting data without adding shop-floor work.
- Data formats were normalized into a shared schema, allowing all six factories to be compared using the same metrics.
- Trend-change detection rules were configured by equipment category and incorporated into maintenance planning.
- Notifications were delivered through the existing maintenance system, without introducing another interface.

Results

Unplanned shutdowns	Maintenance spare-parts inventory value	Equipment connected for data collection
31 fewer incidents per year	**19% reduction**	**412 units**

Client Feedback

"Because we could start without adding work on the factory floor, there was very little resistance." - Production Engineering Department

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CASE 09

Consolidating campus systems and scaling only during busy periods cut annual costs by 28%

Servers previously provisioned year-round for course-registration peaks were replaced with capacity that scales only when needed.

Client	Educational Institution I
Scale	Approximately 9,000 students
Industry	Education
Project period	March-December 2025 (10 months)
Business Challenge	Cloud Migration / Cost Optimization

Challenges

- Traffic concentrated in the first 30 minutes of course registration, causing connection failures in previous years.
- Resources remained provisioned year-round despite limited use, making costs effectively fixed.
- The information center had only three staff and little capacity to manage a major operational change.

Our Approach

- Analysis of three years of access logs identified peak periods totaling 17 days each year.
- We scheduled capacity to scale up and down automatically only during those periods.
- We also proposed staggering registration opening times by faculty.
- Our managed services team took on most operations without increasing the workload of university staff.

Results

Annual infrastructure costs	Connection failures during course registration	Peak response time
28% reduction	**0 incidents**	**Average 9.4 seconds to 1.1 seconds**

Client Feedback

"Their suggestion to stagger start times was just as useful as the technical changes." - Information Center

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CASE 10

Embedding routine e-commerce vulnerability checks into the development and release process

We replaced a model based solely on annual external assessments with continuous security checks throughout development.

Client	Company J, a specialty retail chain
Scale	240 stores
Industry	Retail & Distribution
Project period	July 2025-February 2026 (8 months)
Business Challenge	Security Improvement / In-house Development

Challenges

- With only an annual assessment, issues were often identified months after the affected system had entered production.

- The development team lacked consistent security-review criteria, leading to different judgments between reviewers.

- Each assessment produced more findings than the team could resolve.

Our Approach

- We incorporated automated checks into release procedures to detect known vulnerability patterns before deployment.

- Findings were classified into three severity levels, with explicit criteria for blocking a release.

- Developers attended four training sessions based on actual assessment findings.

- The annual external assessment was retained, with its role reframed as a periodic independent review.

Results

Detection before production	Findings in external assessments	Pre-release checks
0% to 78%	**64% fewer year over year**	**Run automatically for every release**

Client Feedback

"Defining when and by whom decisions were made mattered more than simply reducing the number of findings." - E-commerce Division

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