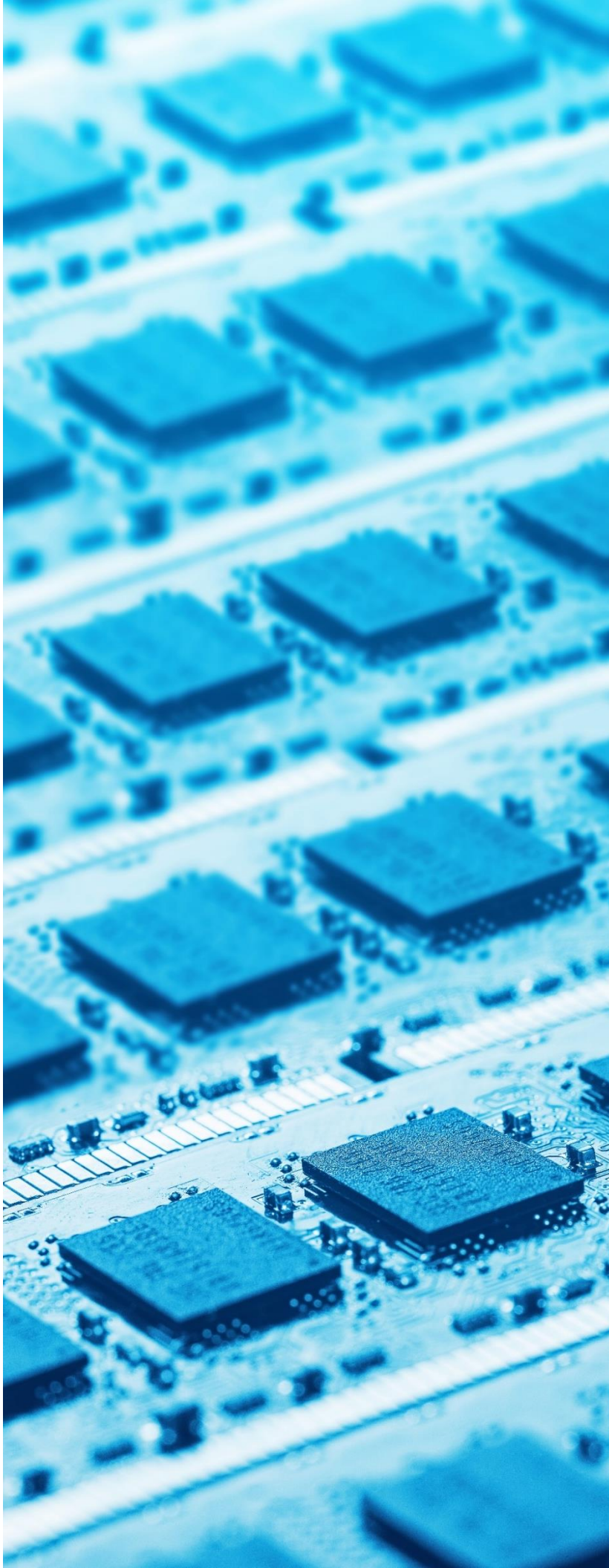
Case Study

Database Engineering (Network System)



Summary

Database Administration Services for 100+ Wireline and Wireless applications, covering database infrastructure, administration, and monitoring. The services supported Network Engineering, Inventory, Service Fulfillment, Assurance, and 5G network system applications.

Scope

- Database Administration and Engineering Services for Wireless & Wireline Applications.
- Performance Monitoring, Alerts, and Actions.
- Deployments and Maintenance Services.
- Support Services.
- Comprehensive DB-360 Degree Management.

Challenges

- Managing and monitoring distributed databases across hybrid environments (cloud, on-premises, virtual machines, containers).
- Ensuring high availability and performance across a large-scale database infrastructure.
- Minimizing downtime and performance bottlenecks while managing upgrades, migrations, and disaster recovery operations.

Solution

- Performance Monitoring and Alerts: Implemented real-time monitoring with automated alerts to detect threshold breaches and potential issues early.
- Unified Dashboards: Enabled centralized monitoring for hybrid environments, providing visibility into cloud, on-premises, and containerized setups.
- Deployment and Maintenance Services: Automated SQL script deployments across multiple DB servers, reducing manual errors and enabling single-click updates.
- Support Services: Offered troubleshooting assistance for cluster failures, ASM disk groups, database corruption, and disaster recovery. Designed high-availability architectures and implemented proactive backup strategies.
- DB-360 Degree Management: Delivered end-to-end database management covering live environments, maintenance, migrations, query optimization, and access controls.

Business Value

- Scalability and Planning: Enabled efficient capacity planning and scaling to meet growing demands.
- Proactive Monitoring: Minimized downtime through real-time alerts and quick issue resolution.
- Performance Optimization: Enhanced database performance through query tuning and optimization.

For more information, please visit www.infinite.com