Azure Performance Optimization

SAXON

What is Azure Performance Optimization?

Azure Performance Optimization is the process of improving the efficiency and effectiveness of your Azure resources and workloads. It involves monitoring, analyzing, and adjusting your Azure environment to meet your performance goals and requirements. Azure Performance Optimization can help you reduce costs, increase availability, enhance security, and boost user satisfaction.

Optimizing Azure performance for customer workloads is essential for

- Seamless user experience
- Cost efficiency
- Scalability, Reliability
- Competitive advantage
- Operational efficiency
- Data security
- Compliance
- Business continuity



Saxon's Azure Performance Optimization Framework

Saxon would gather data from cx on

- Existing workload details
- Inventory of Azure services
- Usage patterns
- · Performance metrics
- ongoing Operational tasks at Compute, DB,N/W,App levels
- Governance mechanism



Phase -I

Data Gathering & Performance Analysis

Understand Cx's Azure architecture & design principles.

- Set CX's Azure performance goals & metrics
- Explore CX's Azure performance problems

3 to 5 days



Saxon would Provide the outcome of the Assessment

- Observations
- Metrics
- Reports



Add - on

Performance Optimization Managed Services Offering

Saxon team would provide ongoing support towards Performance optimization

- Build & adjust performance optimization strategy (ongoing)
- Automate performance tracking and management
- Ensure ongoing Performance tuning





Phase -II

Recommendation on Performance Optimization & Strategy Roadmap

- Analyze the runtime behavior of Cx's Azure resources and workloads
- Prioritization of Performance issues towards resolution
- Share implementation Roadmap



3 to 5 days



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Saxon would provide

- Performance optimization summary at Compute, App, DB, N/W, Security & Storage
- Comparative stats before & after performance optimization

Discuss

• Logistics & Financials of Managed services

3 to 5 wks

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(9)

Implementation of Performance optimization

Phase -III

Provides high quality solutions by a pplying performance optimization techniques & best practices in 2 phases

- Immediate Impact
- Long term sustainability

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Saxon would provide

- Prioritized recommendations for performance opportunities
- $\bullet \ \, {\sf Strategy} \ roadmap for the implementation$

Discuss

Logistics & Financials of Performance implementation

Why is Azure Performance Optimization Important?

What are the **challenges** faced by existing customers?

- Deteriorating Performance
- Increased Costs
- Reduced Availability
- Security Vulnerabilities
- Compliance Issues
- Poor User Experience
- > Technical Debt
- > Inability to Scale
- Wasted Resources
- Operational Inefficiency

How will customers benefit from Performance Optimization

- ✓ Actionable Recommendations
- ✓ Improved Efficiency
- ✓ Cost Savings
- ✓ Enhanced Security
- ✓ Compliance Assurance
- ✓ Better User Experience
- ✓ Strategic Insights
- ✓ Customized Solutions
- ✓ Operational Streamlining
- ✓ Continuous Improvement

Azure Performance optimization – At various Levels

Optimize Azure Performance with Our Expertise

Compute performance

WebApp Performance

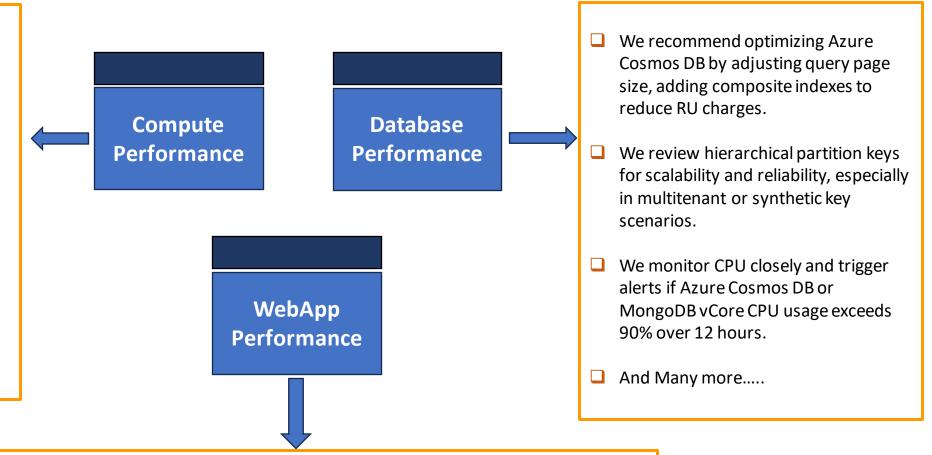
Database Performance

Networking Performance Security Performance

Storage Performance

Ongoing Azure Performance Optimization – At various Levels

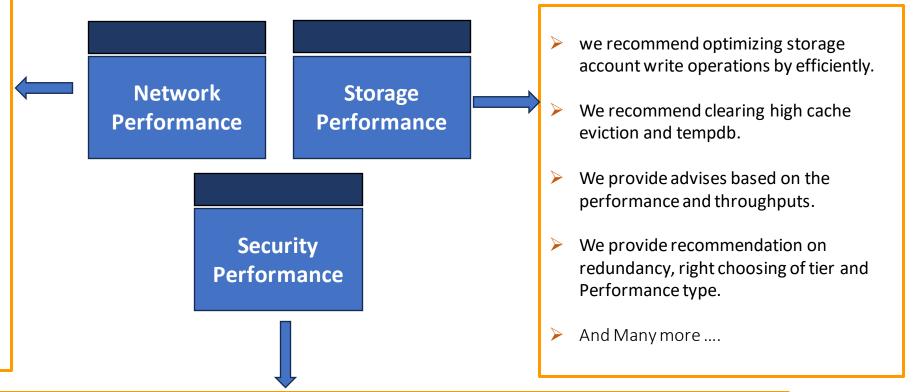
- We ensure vSAN capacity below 75% for SLA compliance by adjusting resources & workloads.
- We upgrade outdated SDK's as appropriate.
- We recommend resources based on the performance.
- Recommendations will be provided based on recent data to identify VMs exhibiting usage.
- And Many more.....



- Consideration is given to upgrading to the App Service tier based on performance.
- ☐ We recommend to ensure that your app stays within TCP/IP socket connection limits.
- And Many more.....

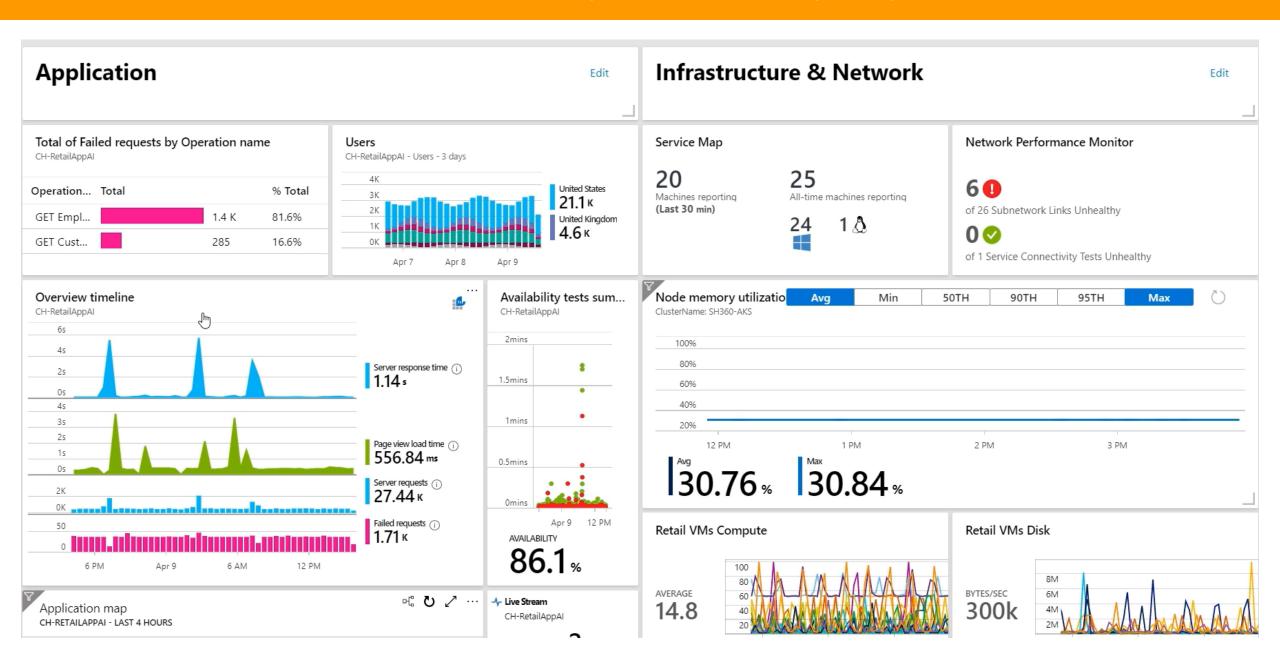
Azure Performance Optimization – At various Levels

- We recommend Upgrading to the latest versions of Azure Front Door and Azure Traffic Collector SDKs is recommended.
- We recommend to route traffic quickly to a health endpoint in case of failover, enhancing response efficiency.
- We suggest application gateway autoscaling to ensure matching traffic demands.
- And Many more



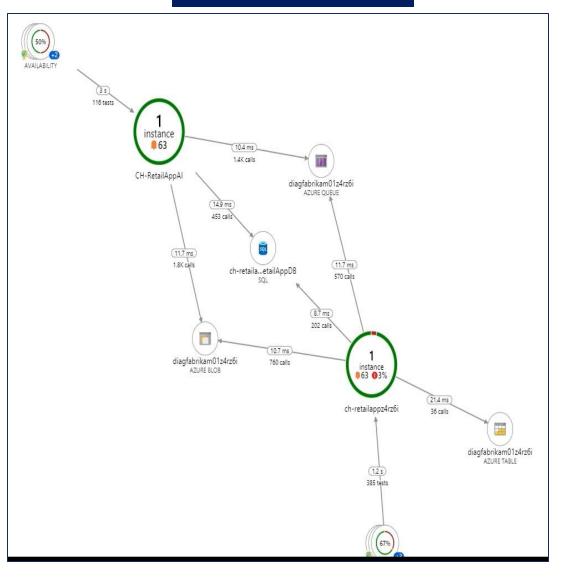
- We check API version as part of the assessment.
- > As part of our Azure performance assessment, key vault client libraries are recommended.
- Consideration is given in our Azure performance assessment to upgrading to the new Key Vault Client Libraries.
- And Many more

Azure Performance Optimization- Sample reports

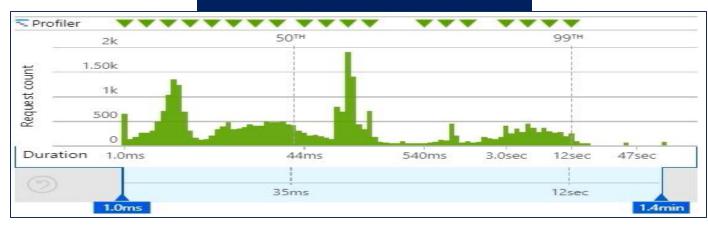


Azure Performance Optimization - Sample reports

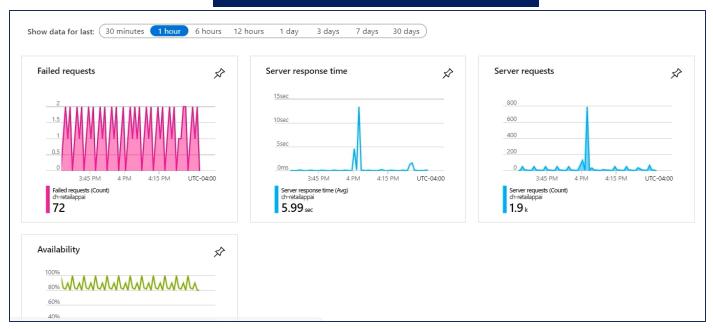
Application Map



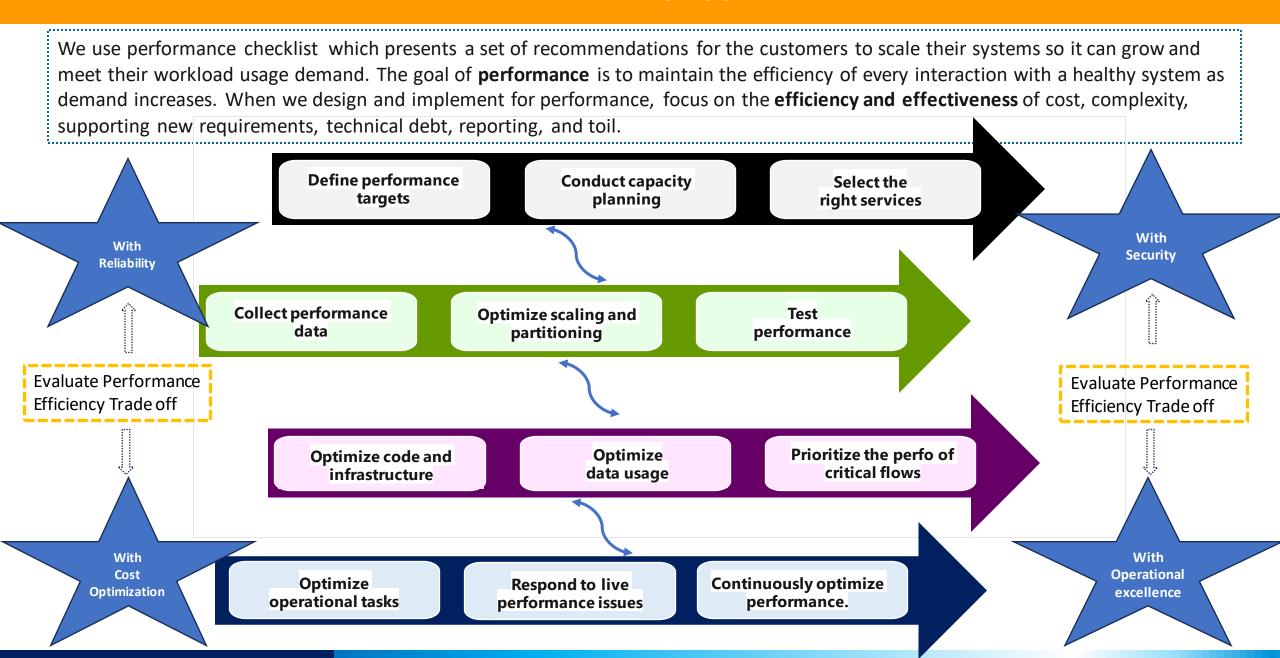
Distributions of durations



Server performance stats



Performance Efficiency Approach



Saxon's Deliverables of Performance Optimization

Deliverables

- ✓ **Assessment Report**: A comprehensive document detailing the current performance state, including any bottlenecks and inefficiencies identified during the assessment.
- ✓ **Recommendations**: A list of actionable recommendations for improving performance, tailored to the specific Azure environment.
- ✓ Performance Baselines: Establishment of performance metrics and baselines that serve as a reference point for future optimizations.
- ✓ Implementation Plan: A strategic plan outlining the steps to implement the recommended optimizations, including timelines & responsibilities.
- ✓ Test Results: Documentation of performance testing results pre & post-optimization to validate the effectiveness of changes made
- ✓ Monitoring Strategy: A strategy for ongoing performance monitoring, including tools and practices to maintain performance efficiency.
- ✓ Cost-Benefit Analysis: An analysis of the potential cost savings and efficiency gains from implementing the recommendations.
- ✓ Governance &
 Compliance Review: Insights into governance practices and compliance with industry standards and regulations.
- ✓ Security Assessment: An evaluation of the security posture of the Azure environment and recommendations for improvements
- ✓ Customized Reports: Customized reports generated by Azure Expert Assessment tools, providing deep insights into the Azure environment.



About Us

Saxon is a data and analytics company specializing in industry-specific solutions to make organizations more insights-driven. It helps in empowering clients with actionable information for real-time decision-making, serving as a key solution partner to leading data engineering & Cloud Technology platforms, supporting diverse industries in their digital transformation journey.

Saxon has been the Trusted Partner over 2 decades for holistic business transformation: Industry Insights, Consulting Excellence, and Cutting-Edge Cloud & Al Solutions

THANK YOU