Modernizing Cloud Infrastructure for a Global Workplace Safety Leader

ORGANIZATION

Our client is a global workplace safety company that provides innovative, slip-resistant footwear to help businesses protect employees from workplace injuries. Their products are used in over 15,000 organizations across 100,000+ locations worldwide. As part of their long-term strategy, they set out to modernize their IT infrastructure to improve performance, security, and scalability.

CHALLENGE

To support their growth, our client needed to move key applications to the cloud using Azure and Software AG solutions. However, they faced significant challenges:

- **Lack of cloud expertise:** Their team needed guidance in setting up, securing, and managing the Azure environment.
- **Performance & Cost Concerns:** They required a detailed analysis of server sizing, cost projections, and performance needs to make informed decisions.
- **Security & Integration:** Their cloud environment had to be secure and seamlessly connected to on-premises systems without disrupting daily operations.
- **Scalability & High Availability:** Their solution needed to handle growth, support business continuity, and maintain reliable application performance.

TECHNICAL SOLUTION

XTIVIA partnered with the client to design, implement, and optimize a secure, scalable, and cost-effective cloud infrastructure tailored to their business needs.

- **Comprehensive Architecture Design:** Provided a robust network architecture with defined subnet boundaries, Application Gateways, availability sets, and server roles.
- **Azure Resource Optimization:** Conducted a detailed sizing analysis to recommend optimal Azure server types and delivered a three-year cost projection matrix.
- **Scalable Virtual Infrastructure:** Designed and deployed Azure Virtual Machine images and scale sets tailored for Software AG products.
- **Enhanced Connectivity & Security:**
    - Configured Azure Availability and Fault Domains to ensure high availability.
    - Established encrypted SSL communication within Virtual Networks.
    - Implemented Azure Active Directory synchronization with on-premises Active Directory.
    - Secured API Gateway configurations for internal and external users with advanced threat protection.
- **Load Balancing & High Availability:** Deployed active-active scale sets for Software AG components, load-balanced with Layer 3 mechanisms for optimal performance.
- **Streamlined Network Integration:** Established secure VPN connectivity between Azure and on-premises environments.
- **End-to-End Implementation:** Delivered a phased setup of Development, Test, UAT, and Production environments, including server provisioning and software installation.
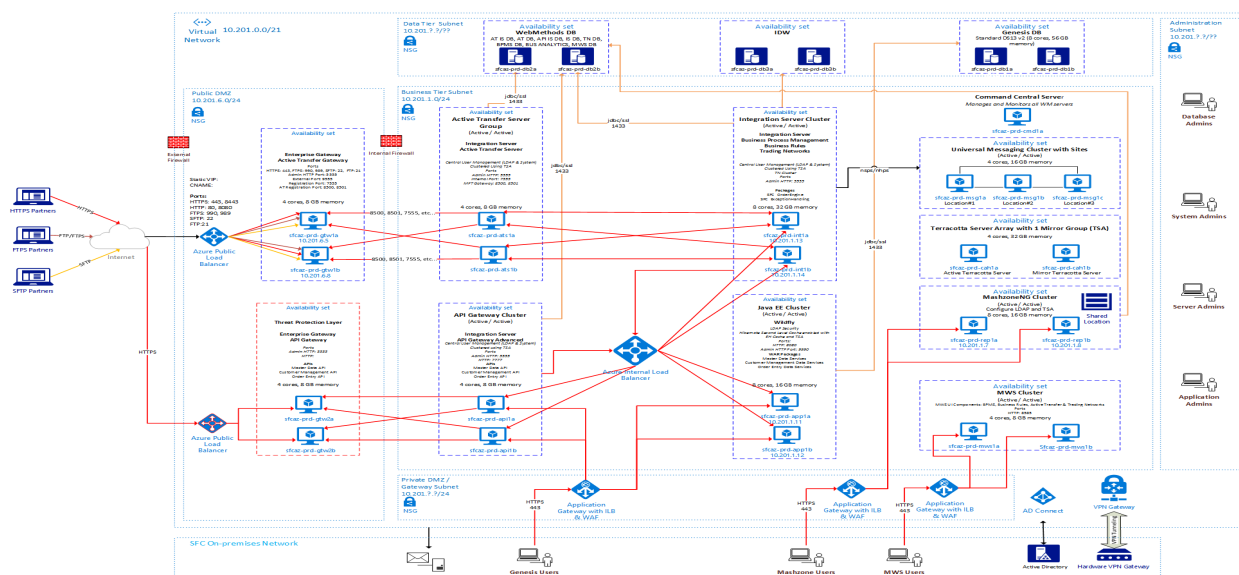
BUSINESS RESULT

XTIVIA's comprehensive solution empowered the client with a state-of-the-art Azure environment, seamlessly bridging on-premises and cloud infrastructures. Key outcomes include:

- **Accelerated Deployment:** Faster provisioning of environments and servers enabled the project to stay on schedule and meet critical milestones.
- **Cost Efficiency:** Accurate sizing analysis and cost projections ensured optimal resource utilization and budget alignment.
- **Enhanced Performance:** The modernized architecture improved scalability, reliability, and system security, meeting our client's performance expectations.
- **Strategic Insights:** Detailed analysis and architecture design provided the client with greater clarity on solution trade-offs and future scalability.

KEYWORDS

Azure Cloud, Cloud Migration, Java, Wildfly, Software AG, API Gateway, Secure Networking, High Availability, Cost Optimization, Cloud Architecture

SOFTWARE

Azure Cloud, Java 1.7, Software AG WebMethods Integration Server 9.12, WebMethods Administrator 9.12, Wildfly Application Server 10.0, WebMethods Active Transfer Gateway 9.12

ABOUT XTIVIA

At XTIVIA, we've been providing IT solutions and consulting services for over 30 years with a wide range of services, including technology assessments, IT service and asset management, software development, data analytics, cloud migration, DevSecOps, ERP, and enterprise content management. Dedicated to each discipline, ensuring that our clients receive the best possible service. Through strategic acquisitions, we've acquired talented people who are experts in their industries, passionate about what they do, and committed to providing exceptional service to our clients. Whether you need to improve your IT infrastructure or implement new software solutions, XTIVIA is here to help you achieve your business goals. XTIVIA has offices in Colorado, New York, New Jersey, Texas, Virginia, and India. www.xtivia.com