



Title: "Transforming Guchat's Gaming Platform with Azure Automation"

About Company

Guchat is a pioneering social platform for gamers, offering the largest weekly giveaways on any social media platform. It enables users to earn rewards for their time spent and skills attained in games, redefining the gaming experience. With features like free messaging, video calls, and photo sharing, Guchat unites gaming communities while providing monetization benefits and engagement rewards.

The Challenge

Guchat faced significant challenges as it aimed to scale and enhance its platform to support a growing user base and extensive data from gaming activities. The main challenges included:

- Scalability: Managing rapid user growth and high data volumes.
- High Availability: Ensuring uninterrupted service, especially during peak times.
- Automation: Reducing manual interventions through robust automation.
- CI/CD Implementation: Streamlining the development and deployment process.
- Security: Protecting user data and maintaining compliance with industry standards.

The Solution

To overcome these challenges, NuMosaic team has implemented a comprehensive solution leveraging Microsoft Azure and Terraform automation:

1. Azure Infrastructure Setup: Automated the deployment of Azure infrastructure using Terraform, ensuring consistency and reliability.
2. AKS Cluster Deployment: Deployed an Azure Kubernetes Service (AKS) cluster to manage containerized applications, providing scalability and easy management.
3. High Availability Configuration: Configured the AKS cluster with multiple node pools and regions to ensure continuous service availability.
4. Autoscaling Implementation: Enabled autoscaling to dynamically adjust resources based on demand, optimizing performance and cost.
5. CI/CD Pipeline Establishment: Built a CI/CD pipeline using Azure DevOps for seamless build, test, and deployment processes, integrated with AGIC (Application Gateway Ingress Controller) for secure traffic management.





6. Enhanced Security Measures: Incorporated best security practices, including role-based access control (RBAC), network security groups (NSGs), and automated compliance checks.

Benefits and ROI:

The solution delivered substantial benefits to Guchat:

1. Enhanced Scalability: The AKS cluster and autoscaling capabilities efficiently managed user growth and gaming interactions.
2. Uninterrupted Availability: High availability configurations ensured continuous service, enhancing user satisfaction.
3. Operational Efficiency: Automation through Terraform and the CI/CD pipeline minimized manual tasks, reducing errors and speeding up feature deployment.
4. Cost Savings: Autoscaling optimized resource usage, lowering operational costs.
5. Improved Security: Robust security measures protected user data, ensuring compliance and building user trust.

Conclusion:

By leveraging Azure infrastructure with Terraform automation, deploying an AKS cluster, and implementing high availability, autoscaling, and a CI/CD pipeline using Azure DevOps, we transformed Guchat's gaming platform. This solution enabled Guchat to scale seamlessly, maintain high availability, and quickly deploy new features, solidifying their position as a leader in the gaming social platform industry.

Our solution not only addressed Guchat's current needs but also provided a scalable foundation for future growth and innovation, ensuring continued exceptional value for their users.

For more information on how Numosaic can help your organization with similar solutions, please visit our website <https://numosaic.com.au> or contact us at 0426746288.