

App Innovation With Kubernetes

Simplify the management of applications spanning multiple containers and servers with BrainScale's 3-step **Azure Kubernetes Service (AKS)** uplift. AKS orchestrates VM clusters based on available computing resources and the requirements of each container, and groups containers into easily scalable pods. AKS manages service discovery, incorporates load balancing, tracks resource allocation, and scales based on compute utilization. BrainScale helps assess the application, setup prescriptive architecture for AKS landing zone deployment, configure the monitoring, and help scale and update the system.



Application Assessment

BrainScale analyzes monolithic applications to see how they can be rearchitected using microservices. We start with an event storming exercise and develop App Architecture and App Deployment Flow diagrams to plan the process, catalog dependencies, and provide an implementation plan with timelines.



Landing Zone Setup & Service Deployment

Kubernetes cluster is fully configured in your Azure account, and an initial set of microservices are deployed to your cluster. BrainScale configures additional required Azure components. Azure AAD is configured with the AKS cluster, and data is migrated to an Azure platform-based database.



Automation & Monitoring

BrainScale validates app functionality, creates and configures the Azure Container Registry, and creates automated DevOps processes. CI/CD pipelines, operational monitoring, and log management are set up and configured. We deploy the application, scale the system, and continually provide updates and upgrades.

Azure Kubernetes Setup

- Deploy Kubernetes cluster using AKS with Azure Resource Management templates
- Configure cluster for monitoring, security, logging, and storage best practices
- Integrate cluster into Azure Active Directory for authentication and authorization
- Configure Azure Governance and Security templates
- Help configure developer workstations to facilitate container-based development
- Containerize the chosen applications
- Enable full private clusters