

# Issue Tracking System

## Modernization to Azure Kubernetes Service & Azure DBaaS

JTrac is an open-source and highly customizable issue-tracking web-application that provides customizable workflow, field-level permissions, e-mail integration, file attachments, detailed history view, and more. These capabilities convinced Corent to select JTrac for a hybrid modernization to Azure Kubernetes Service (AKS) & Azure DBaaS.

### Challenges:

- Need to define a modernization topology that is suitable for Container & PaaS services.
- Identifying workload components of the application and its dependent resources that can be migrated to Azure Kubernetes Service & Azure DBaaS.
- Need to find Container & PaaS options available on Microsoft Azure for the application workloads.
- Need to perform a hybrid migration of JTrac to AKS & Azure DBaaS on Microsoft Azure.
- Need to ensure that different Cloud services are configured as required by the application for proper functioning.

Under Corent's OpenSaaS Initiative™, several open-source applications were converted into SaaS. Few applications were selected for modernization migration to Microsoft Azure with AKS & Azure DBaaS and JTrac was the first to be selected for this hybrid migration to Container & PaaS services.

### Solutions:

- MaaS scanned the application workloads and identified the easiest route to containerize and modernize the application on Microsoft Azure.
- MaaS Scanner identified the application's workload components and its associated resources through MaaS Deep Scan.
- MaaS analyzed the application workloads and generated advisories listing appropriate AKS & Azure DBaaS services available.
- MaaS effortlessly migrated the application server to AKS and database server to Azure DBaaS without any data loss.
- Using MaaS, configurations required for integrating Container & PaaS services and making JTrac operational were performed automatically.

### Benefits:

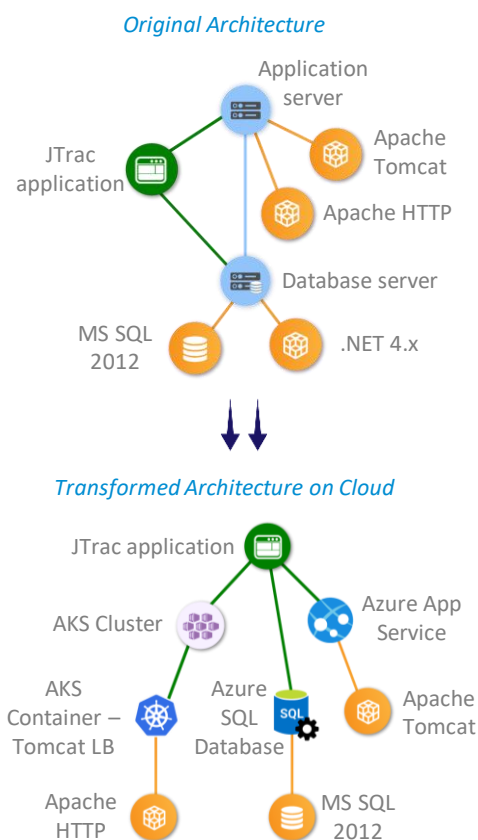
- ✓ Re-architecting to modern Cloud PaaS and Serverless technologies.
- ✓ Workload containerization adhering to Docker container standards.
- ✓ Hybrid Cloud deployment model with Container & PaaS.
- ✓ Automated container configuration on Microsoft Azure.

### Result:

JTrac was analyzed by MaaS for hybrid modernization migration and suitable Microsoft Azure resources were identified. MaaS seamlessly migrated the application in double quick time to AKS & Azure DBaaS on Microsoft Azure. This hybrid modernization of JTrac enabled Microsoft Azure customers to access a less expensive issue tracking system.

**MaaS assessed the JTrac application for a hybrid modernization of its workloads to AKS & Azure DBaaS services and migrated effortlessly to Microsoft Azure in a short span of time.**

### Architecture Diagram:



This application was developed using Java platform with 2-tier architecture and hosted on Apache Tomcat web server with MySQL as database server.