Migration & Orchestration Capabilities

Intelligent Automation to Streamline the Cloud Journey

Matilda Cloud's migration and orchestration tools redefine the way organizations transition to and operate in the cloud. From simplifying complex migrations to automating landing zone creation and Infrastructure as Code, these tools empower enterprises, cloud consultants, and managed service providers to achieve seamless, scalable, and cost-effective cloud operations.

Whether tackling lift-and-shift or advanced transformation projects, Matilda's solutions deliver the speed, precision, and compliance needed for success.

Matilda Migrate Capabilities

Simplified, Accelerated, and Optimized

Matilda Migrate is a comprehensive migration tool tailored for complex IT environments. It streamlines the cloud transition process with support for lift-and-shift migrations and seamless integration with orchestration tools for advanced models.

By automating labor-intensive tasks, Matilda Migrate reduces downtime, ensures compliance, and delivers cost-efficient outcomes. Designed for enterprises, cloud consultants, and managed service providers, it accelerates time-to-value while maintaining optimal performance, making digital transformation efficient and ROI-focused.

Matilda Orchestrate Capabilities

Automation for Scalability and Accuracy

Matilda Orchestrate simplifies migration orchestration across all major cloud platforms, ensuring consistency and scalability. It automates wave group planning, the creation of landing zones, and the generation of reusable Infrastructure as Code (IaC), enabling standardized deployments across diverse environments.

With support for customizable Terraform IaC, Matilda Orchestrate adapts to unique business needs, reducing manual effort while enhancing security and compliance. This ensures organizations can scale confidently, leveraging automation to optimize resource allocation and deployment accuracy.

A more efficient, precise, and simplified cloud journey.

Migration & Orchestration: Technical Overview

Matilda Migrate and Matilda Orchestrate provide a robust toolset to transition IT operations to the cloud with efficiency and accuracy. By automating landing zones and modernizing legacy applications, these tools address the complexities of IT environments and compliance requirements.

Together, they enable seamless migrations for complex landscapes, leveraging automation and reusability to scale operations effectively.
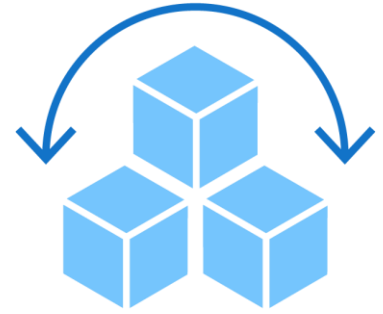
Comprehensive Migration Support:

- Lift-and-Shift migrations with compatibility for Windows, Linux (Ubuntu, CentOS, etc.), and major cloud platforms (AWS, GCP).

- Support for file systems, architectures, and hypervisors to ensure seamless migrations.

Migration Orchestration:

- Automated landing zone creation for all major cloud providers.

- Infrastructure as Code (IaC) generation for standardized, repeatable deployments.

- Custom Terraform code support tailored to meet specific business needs.

Database Migration:

- Seamless transitions from MSSQL to AWS RDS or MongoDB to AWS DocumentDB using custom plugins and DMS services.

Application Modernization:

- Transform legacy .NET and Java applications to modern architectures, including .NET Core and containerized Java applications.

- Source code analysis for optimized modernization.

Reporting Outputs & Deliverables

- **Migration Readiness Reports:**
  Detailed analysis of system compatibility and prerequisites for migrations.

- **Orchestration Blueprints:**
  IaC templates and Terraform scripts for repeatable and scalable deployments.

- **Application Modernization Insights:**
  Actionable recommendations and strategies for transitioning legacy systems to cloud-native architectures.

- **Database Migration Summaries:**
  Documentation of database dependencies and migration pathways tailored to the target cloud environment.

Migration Capabilities Overview

Matilda Cloud proudly supports migration to any of the four major cloud providers, including AWS, Azure, GCP, and OCI, ensuring seamless migration and orchestration to any platform.

Our strategic partnerships with these providers enable tailored migration services that align with each customer's specific cloud platform goals. References to 'All Major Clouds' reflect our unified approach for any target cloud.

Feature	Supported
Providers Supported	All Major Clouds Email, Execution (Windows & Linux), Git, Helm, Jenkins, Jira, Kubernetes, Manual, Middleware (Ansible)
IaC Supported Services (Terraform)	All Major Clouds
Landing Zone Creation	All Major Clouds
Generate IaC for Discovered Instances & Services	Supported for All Major Clouds, Execution and Middleware Providers
App 2 Container Support	.Net, Java Tomcat and Java Springboot Services
Generate and Push IaC to GIT Repositories	Supported for All Major Clouds, Execution and Middleware providers
Custom IaC Support	Customers can bring their terraform code to Matilda's platform to standardize terraform services.
IaC Code Scanning	Supported for All Major Clouds, Docker Images, & K8S Manifest Files
Multiple Environment Provisioning & Version Control of Cloud Infrastructure	All Major Clouds
Container Migration	On-Prem K8S Workload Migration to EKS

Rehost (Lift & Shift) Capabilities

Matilda Migrate supports a wide range of file systems, architectures, and hypervisors, ensuring compatibility with Windows Server and popular Linux distributions like Ubuntu and CentOS.

Feature	Supported
Cloud Providers Currently Supported*	All Major Clouds
Supported Windows Operating Systems	Windows Server 2012, 2016, 2019, 2022
Supported Linux Operating Systems	Ubuntu 14.04 - Latest Centos 6.x - Latest RHEL 6.x - Latest Oracle Linux 6 - Latest Debian 9.x - Latest
Supported File Systems	EXT3/EXT4/EXT5/XFS/VFAT/NTFS
Supported Architecture	X86_64
Supported Platforms & Hypervisors	Physical, VMware, Hyper-V, KVM

*Prerequisites, requirements, and specifications documentation will be shared separately for specific use cases

Database Migration Capabilities

Database migration is a key strength of the Matilda platform, which supports transitions such as MSSQL to AWS RDS or MongoDB to AWS DocumentDB through custom plugins and DMS services.

Feature	Supported
MSSQL Migration to AWS RDS	Database migration supported via DMS service
Oracle Database Migration to AWS RDS	Database migration supported via DMS service
MySQL Database Migration to AWS RDS	Database migration supported via DMS service
MongoDB to AWS DocumentDB Migration	Supported with a custom Matilda plugin
MSSQL Migration to Azure SQL PaaS	Supported with a custom Matilda plugin
MSSQL Migration to Azure SQL Managed Instance	Supported with a custom Matilda plugin
MSSQL Migration to Azure SQL Virtual Machine	Supported with a custom Matilda plugin
DocumentDB to Oracle Autonomous JSON DB Migration	Supported with a custom Matilda plugin

.Net & Java Modernization Capabilities

Matilda Orchestrate offers .NET and Java application modernization, analyzing source code and enabling the transition from legacy systems to modern architectures like .NET Core and containerized Java applications.

Feature	Supported Legacy Applications
.NET Application Services Discovery	WCF Apps, .NET MVC Apps, .NET Web Forms
.NET Application Modernization **Conversion of Legacy Application (apps built on .NET Framework 3.5 to 4.8) to .NET Core**	Console Apps, Windows Forms, WCF Apps, .NET MVC Apps, .NET Web Forms
.NET Application Modernization & Containerization	Console Apps, WCF Apps, .NET MVC App, .NET Web Forms
.NET Source Code Analysis	Performs source code analysis for app types: Console Apps, Winform Apps, WCF Apps, .NET MVC App, .NET Webforms
Java Application Containerization	Tomcat-Based Apps, Spring Boot Apps