



KG Hawes

Partners in Technology

Cloud Migration & Management

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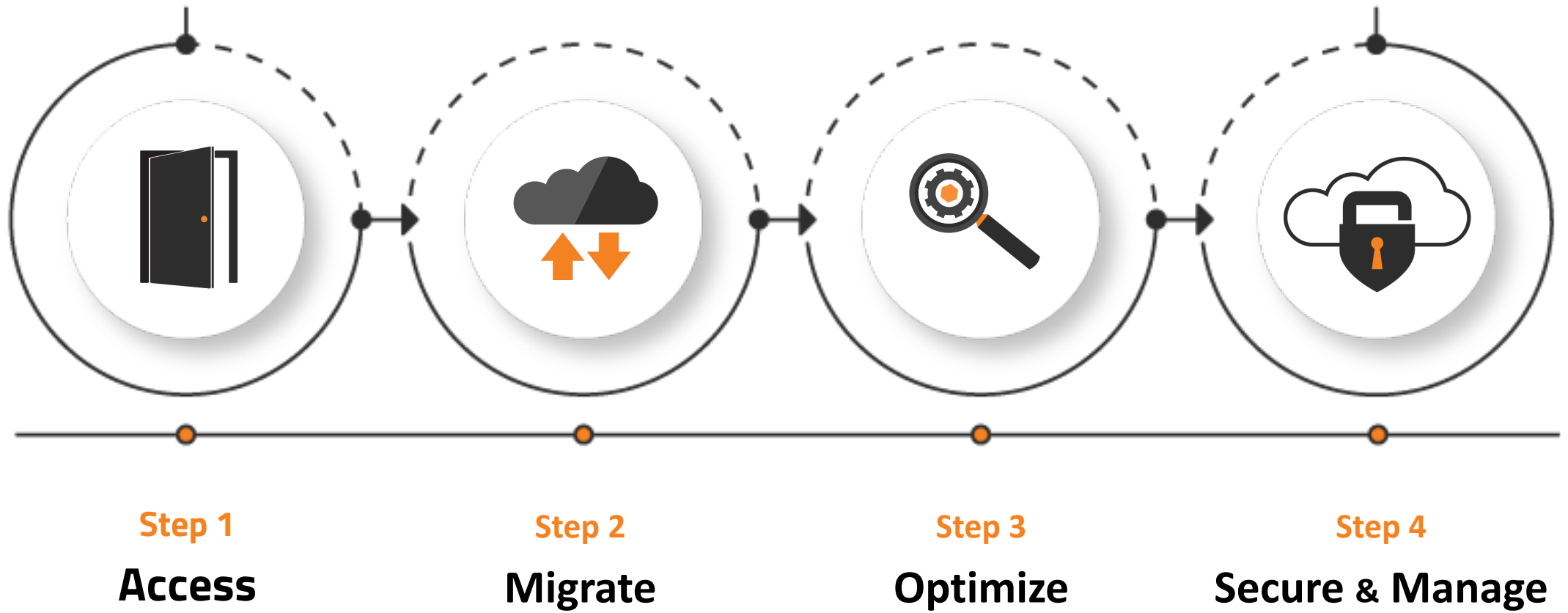
Whether you want to migrate your data and applications from your on-site server to the cloud, or transfer from one cloud provider to another, KG Hawes has the experience to successfully manage this for your business.

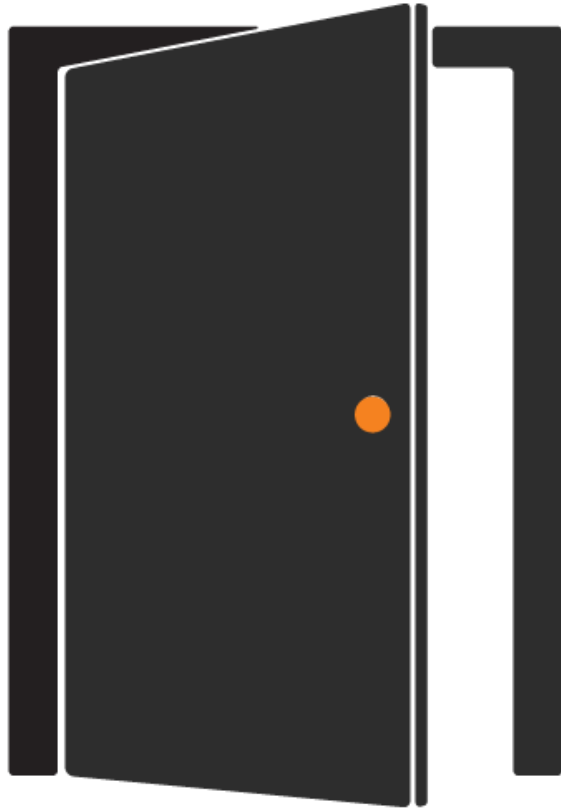
We deliver a comprehensive range of services for businesses, **including the transfer to, securing of and round-the-clock monitoring of your critical data.**

Our team is a registered consulting partner of Amazon Web Services (AWS). Our portfolio of cloud-service providers includes: *AWS, Google Cloud, Microsoft Azure and Office 365.*



The four steps to cloud migration & ongoing management are:





The first step, Access, is broken down into three sub steps:

1. **Obtain Stakeholder Input:** First, we will gather information from a business' key players (e.g., IT Manager, Business Owners, etc.) Obtaining everyone's input and support will lead to a smoother, faster cloud migration process.
2. **Calculate TCO:** Total Cost of Ownership (TCO) is used to evaluate the potential cost savings in migrating to the Cloud (Azure/AWS) compared to staying with the on-premise environment. Using the Azure/AWS TCO calculator, we will create a customized cloud assessment in a matter of minutes that will help to create a personal business case to support an Azure/AWS migration.
3. **Evaluate Hardware:** Our team will then create an inventory of all on-premises servers that need to be migrated. Using a cloud migration assessment tool, we will be able to identify dependencies and reduce risks.



The second step is to **Migrate**, which begins with a strategy that ties in the current state of the IT environment with the **business’ objectives** (determined in Step 1: Access). The four most common migration strategies are listed below, and which one will need to be used for which application will be determined by an application’s state of readiness:

1. **Rehost:** Also know as “Lift & Shift”, this strategy moves an application to the cloud quickly with minimal adjustments.
2. **Refactor:** Also referred to as “Re-Package”, this strategy involves some change to the application design to better align with the cloud environment, but no changes to the application code.
3. **Rearchitect:** This strategy involves modifying and/or dividing an obsolete application up into independently deployable components, called “microservices” in order to work within the cloud environment. The advantage is that the microservices will be more flexible and have the ability to scale with the current applications. In comparison with the first two strategies, re-architect is more time consuming and expensive.
4. **Rebuild:** This strategy requires that an application’s code is rewritten from scratch.



The third step is to Optimize. We will focus on maximizing cloud performance and minimizing waste during the initial setup. Though this will include ensuring the most for the least cost, all of the items listed below will need to be regularly monitored after migration. They include:

1. **Securing Your Server Instance:** In addition to migrating your data assets to a cloud environment, you'll want to make use of a platform's security features, such as IAM, AD Integration, WAF & Security Groups. These will vary depending on your unique business needs.
2. **Managing Cloud Costs:** This is done in part by understanding a platform's pricing model & then identifying mismanaged resources that are contributing to your monthly costs, and reducing or expanding computing services to scale.
3. **Saving with Platform Offers:** Taking advantage of platform promotions when available.



The fourth step is to Secure & Manage. Both the cloud-platform vendor and you are responsible for your security & the distinctions should be made clear before an agreement is signed. Managing your assets in the cloud *after migration* would include:

1. **Maintaining** full visibility into and control over the security of cloud applications, quickly detecting and responding to threats, and reducing your exposure by enabling adaptive threat protection.
2. **Avoiding** costly business disruptions, help you to meet compliance goals, and assist in securing your cloud application data against ransomware and human error by backing up your apps.
3. **Monitoring** the health and performance of your cloud apps, infrastructure, and data (such as: CPU, disk and memory utilization for your virtual machines (VMs), and monitoring applications and network dependencies across multiple VMs).

Our FULL cloud strategy (i.e., Migration & Management) includes:

- 1. Migration:** Strategic Technology Planning
- 2. Migration:** Assessment of Architecture and Infrastructure
- 3. Migration:** Capacity Planning
- 4. Migration:** Software Installation and Configurations
- 5. Migration:** Architecture Design
- 6. Migration:** Lift and Shift On-Premise Servers to Cloud
- 7. Migration:** Optimization and Performance Tuning
- 8. Management:** Backup and Recovery Strategies and Configurations
- 9. Management:** Monitor, Audit, Report, Security and logins management
- 10. Management:** Disaster Recovery, Fast-Start-Failover Configurations

Systems

Hardening

Our System Hardening services include preparing your physical server with firmware updates, configuration and access control.



GRC

Governance Risk Management & Compliance

Align IT activities to business goals.



VAPT

Vulnerability Assessment & Penetration Testing

We identify vulnerabilities within your system and differentiate between the exploitable and non-exploitable vulnerabilities.

Infrastructure

Management

With fast issue-resolution times, our RIM team is able to maintain quality, manage risks, reduce costs, and ensure business permanence.



Database

Management

KG Hawes offers remote database administration solutions 24/7/365, maximizing cutting-edge technologies.



Network

Security Maintenance

KG Hawes offers proactive and scheduled maintenance & audits for your server, storage and backup systems.

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