

Overcoming **Cloud Migration** Challenges





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Why Cloud Migration is Critical but Complex

What is Cloud Migration?

Cloud migration is the process of transferring a company's digital assets, services, databases, IT resources, and applications from on-premises infrastructure to a cloud environment. This migration can be partial or complete, depending on an organization's business strategy, operational needs, and budget. Cloud migration also includes the process of moving digital assets from one cloud provider to another, commonly known as cloud-to-cloud migration.

Companies increasingly migrate to the cloud to enhance performance, security, and scalability, moving away from aging servers, unreliable firewall appliances, and outdated software that no longer meets modern business demands. The shift to cloud computing allows organizations to improve efficiency, reduce operational costs, and take advantage of advanced cloud-based capabilities. As a result, many businesses opt for at least a partial cloud migration to remain competitive and future-ready.



The Importance of Cloud Migration

Cloud migration is critical for achieving real-time performance improvements, operational efficiency, and business agility. However, a successful migration requires careful planning, strategic analysis, and execution to ensure the cloud solution aligns with the company's specific needs.

Organizations must **not only focus on migrating their data and applications but also optimize and modernize** their operations in the cloud. This process includes evaluating:

- · Which applications need re-architecting for cloud compatibility?
- · How will the cloud impact security, compliance, and governance?
- What cost structures and consumption models will best fit business operations?

Cloud migration is more than just a **technology shift**—it is a **business transformation** that redefines how companies operate, innovate, and deliver value.

Key Considerations for **Cloud Migration**

Migrating to the cloud is not just about moving IT infrastructure; it's about redefining how businesses use technology to drive efficiency and innovation.

Here are the key factors organizations need to consider:

1. Assessing the Migration Strategy:

Businesses must decide on the right **migration approach**—whether it's a **lift-and-shift strategy** (moving applications without modification), **re-platforming** (making minimal changes to improve performance in the cloud), or **re-architecting applications** to take full advantage of cloud-native features.

2. Evaluating Application Modernization Needs:

Once migrated, businesses must ensure that their applications are optimized for **cloud efficiency and scalability**. This often involves:

- o Rewriting or refactoring applications for cloud-native performance.
- o **Optimizing databases** for improved storage and retrieval.
- o Leveraging microservices and containerization to enhance flexibility.

3. Ensuring Security and Compliance:

Cloud environments require **robust security measures** to protect sensitive data, comply with industry regulations, and prevent cyber threats. Companies must establish **access controls**, **encryption**, **and multi-factor authentication** to ensure security in the cloud.

4. Minimizing Downtime and Business Disruptions:

A cloud migration strategy should include **backup plans**, **disaster recovery solutions**, **and minimal downtime execution** to prevent business disruptions during the transition.

5. Choosing the Right Cloud Deployment Model:

Companies must determine whether they need a **public, private, or hybrid cloud** solution, each offering different levels of security, cost, and scalability.

6. Maximizing Cost Efficiency:

Cloud migration reduces **capital expenditures on hardware and maintenance** while shifting costs to a **pay-as-you-go model**, ensuring businesses only pay for what they use.

7. Integrating AI and Automation for Optimization:

Many businesses integrate Al-powered analytics, automation, and machine learning into their cloud strategies to enhance decision-making and operational efficiency.

It's Not Just About Getting to the Cloud—It's About What Happens Next

A common misconception about cloud migration is that once assets are in the cloud, the process is complete. However, businesæs must **continuously optimize**, **modernize**, **and scale** their cloud solutions to fully realize their benefits.

One of the most critical post-migration steps is application modernization—the process of updating legacy applications so they can operate more efficiently in the cloud. This is where businesses ask the fundamental question: What is application modernization, and how can it improve our cloud experience?

By leveraging cloud-native features such as **serverless computing, Al-driven automation, and scalable storage**, businesses can achieve **higher efficiency, better performance, and lower operational costs** in their cloud environments.

The Business Benefits of Cloud Migration

For companies that successfully migrate to the cloud, the impact can be **transformative**, driving improvements in agility, cost efficiency, and overall business operations.

1

Increased Agility and Flexibility

- Easily scale IT resources up or down based on business demand.
- Respond quickly to market shifts and technological advancements.

2

Faster Innovation and Deployment

- Accelerate development cycles with cloud-based DevOps tools.
- Deploy new applications and updates in real time.

3

Lower Total Cost of Ownership (TCO)

- Reduce capital expenditures on IT infrastructure.
- Optimize operational costs with pay-as-you-go pricing models.

4

Improved Resources Management

- Automate routine IT processes, reducing the burden on internal teams.
- Utilize Al-driven monitoring to improve efficiency and prevent downtime.

5

Enhanced Customer Experience

- Provide faster, more reliable digital services to end-users.
- Optimize data analytics and Al insights for personalized customer engagement.

6

Simplified IT Operations

- Reduce IT complexity with centralized cloud management.
- Streamline security, compliance, and governance policies.

7

Scalability for Future Growth

- Adapt to changing business needs without infrastructure limitations.
- Future-proof operations by integrating with emerging technologies such as Al and IoT.

8

Business Continuity and Disaster Recovery

- Ensure minimal downtime with built-in redundancy and failover capabilities.
- Improve data recovery speed with automated cloud backup solutions.

Cloud Migration in the Modern Business Landscape

In recent years, organizations across industries have accelerated their cloud adoption strategies to stay competitive. The shift to the cloud has been especially significant due to:

- The rise of remote work requires scalable and secure cloud environments.
- Increased consumer expectations for fast and seamless digital services.
- The growing demand for AI, automation, and real-time data analytics.

Companies that have already migrated to the cloud are rapidly scaling their cloud capabilities, while those that have delayed migration are now reconsidering their strategies, asking themselves: **Why did we wait?**

Key Benefits of Cloud Optimization



Efficient Cloud Operations

Leverage AI, automation, and analytics to optimize cloud performance, reducing operational costs by 30%-50%.



Instant Scalability & Agility

Deploy cloud solutions in minutes with a standardized aaS Opex model, cutting start-up time by 50%.



Optimized Workload Placement

Smart workload distribution based on business needs, delivering **10%-30% savings on cloud expenses**.



Built-in Security & Compliance

Protect mission-critical workloads with **robust security measures** and industry-standard compliance frameworks.

How Does the Cloud Migration Process Work?

1. Defining Your Strategy and Building a Business Case

Before migrating to the cloud, businesses must first define why they are making the transition. The most important question to answer at this stage is:

What business value will cloud migration bring?

Cloud adoption is not just an IT decision—it must be driven by clear business objectives such as:

- Increasing operational agility and efficiency
- Reducing infrastructure costs and improving scalability
- Enhancing security and compliance
- Enabling innovation and digital transformation

Once the business objectives are clear, companies can develop a comprehensive cloud migration strategy that includes:

- · Application assessment: Identifying which applications and workloads should move to the cloud
- · Cloud model selection: Determining whether a public, private, hybrid, or multi-cloud approach is best suited for the organization
- Cost-benefit analysis: Evaluating the expected savings and return on investment (ROI) from the migration

Not all applications are ideal candidates for cloud migration. Some, such as public-facing apps with global reach or those requiring frequent scaling, are well-suited for the cloud. Others, particularly legacy applications with strict regulatory constraints or high customization, may be difficult or impractical to migrate.

2. Discovery and Assessment: What to Move, Where to Move It, and When

Before executing the migration, organizations must perform a detailed assessment of their IT infrastructure, applications, and data. This phase ensures that the migration process is strategic, risk-mitigated, and optimized for performance.

Key activities in this phase include:

- Infrastructure scanning: Identifying dependencies and bottlenecks in the current IT environment
- Application discovery and mapping: Analyzing workloads, interdependencies, and performance requirements
- Risk assessment: Evaluating compliance, security, and potential business impact

Many organizations use predictive analytics to anticipate how applications will perform in a cloud-based environment. This proactive approach helps businesses avoid migration failures and ensures that service level agreements (SLAs) remain intact post-migration.

3. Execution: The Migration Process

Once planning and assessment are complete, the actual migration process begins. This phase involves:

- · Modernizing applications for cloud compatibility
- · Developing new cloud-native applications when necessary
- · Transforming IT architecture and infrastructure to support cloud-based operations

How Does the Cloud Migration Process Work?

The goal of cloud migration is not just moving data and applications—it is about creating a new technology operating model that enables faster innovation, improved efficiency, and better collaboration.

Automation is Key

Automated migration tools play a crucial role in reducing downtime, ensuring consistency, and accelerating deployment. Organizations often use:

- Automated workload migration tools to streamline the transition
- Specialized skills and solution accelerators to improve performance and reduce manual errors
- Cloud journey management frameworks to ensure smooth execution and alignment with business objectives

With proper execution, businesses can minimize disruptions and maximize cloud adoption benefits, ensuring a seamless transition.

Types of Cloud Migration

Cloud migration strategies vary depending on business needs, IT infrastructure, and operational goals. Below are the primary migration approaches:

1. Re-host (Lift & Shift)

This approach involves moving applications from on-premises servers to a cloud environment with minimal modifications. It is the fastest and simplest migration method, ideal for:

- · Legacy applications that do not require modifications
- · Workloads with low complexity and minimal dependencies
- Businesses looking for quick cost reductions and increased scalability

Best for: Organizations that want to migrate quickly without re-engineering their applications.

2. Re-platform

Also known as "Lift-Tinker-Shift," this approach involves making slight optimizations to applications before moving them to the cloud. The goal is to improve performance, cost efficiency, and security while maintaining core application functionality.

Common re-platforming modifications include:

- · Upgrading operating systems to cloud-compatible versions
- Optimizing databases for cloud-based storage and processing
- Enhancing security and compliance to align with cloud best practices

Best for: Businesses seeking cost savings and improved performance without full application redevelopment.

Types of Cloud Migration

3. Re-factor (Application Modernization)

Refactoring involves rebuilding applications from the ground up to make them fully cloud-native. This method provides the highest level of scalability, flexibility, and long-term cost savings.

Organizations opting for re-factoring typically:

- · The transition from monolithic architectures to microservices-based cloud architectures
- · Use serverless computing and containerization (e.g., Kubernetes, Docker)
- Leverage Al-driven automation and data analytics for enhanced business insights

Best for: Companies aiming for long-term digital transformation and cloud-native innovation.

4. Cloud-to-Cloud Migration

This approach involves moving data and applications from one cloud provider to another. Reasons for cloud-to-cloud migration include:

- · Reducing vendor dependency and improving cost efficiency
- · Enhancing security and compliance through a more suitable provider
- Adopting multi-cloud strategies for better redundancy and flexibility

Best for: Businesses that want to switch providers or optimize cloud resources across multiple platforms.

5. Reverse Cloud Migration (Unclouding)

In some cases, businesses choose to move applications and data back to on-premises servers. This strategy, known as reverse migration or de-clouding, is usually driven by:

- · Security concerns and strict regulatory requirements
- Rising cloud costs that outweigh operational benefits
- The need for greater control over IT infrastructure

Best for: Organizations with highly sensitive data or highly customized IT environments.



Common Challenges and Solutions of Cloud Migration

Cloud migration offers businesses significant advantages in scalability, flexibility, and cost efficiency. However, the transition is not without its complexities. Companies that fail to anticipate potential hurdles may experience delays, security risks, cost overruns, and operational disruptions. Below are six common challenges organizations face during cloud migration, along with **best practices for overcoming them**.

1. Legacy System Compatibility

Many enterprises rely on legacy applications that were built **before** cloud computing became standard. These systems often feature **monolithic architectures**, **proprietary databases**, **and outdated dependencies**, making migration difficult and costly.

The Challenge

- Legacy applications are not designed for cloud environments, making rehosting difficult.
- · Many legacy systems lack API support or are tightly coupled with on-premise infrastructure.
- Refactoring legacy applications is time-consuming and expensive.

The Solution

Businesses must evaluate whether to rehost, re-platform, or refactor their applications before migration:

- Rehosting (Lift-and-Shift): Moving applications to the cloud with minimal modifications. This is fast but may not take full advantage of cloud efficiencies.
- **Re-platforming:** Making small modifications, such as shifting from **on-premise to managed cloud databases**, to enhance performance without major overhauls.
- Refactoring (Rearchitecting): Completely rebuilding applications using microservices, containers (Docker, Kubernetes), and cloud-native services for long-term scalability.

Organizations can use **automated assessment tools** like **AWS Migration Evaluator**, **Azure Migrate**, **and Google Cloud Migrate** to analyze application dependencies and determine the best migration strategy.

2. Data Migration Complexity

Moving large volumes of structured and unstructured data to the cloud is a critical part of migration. However, businesses often underestimate data transfer times, security risks, and compliance requirements.

The Challenge

- Data transfer bottlenecks and latency issues slow down migration.
- Data inconsistency between old and new environments can lead to corruption.
- Regulatory constraints (GDPR, HIPAA, CCPA) may require specific data residency policies.

The Solution

- Phased Migration: Instead of moving all data at once, prioritize workloads in stages, beginning with non-critical datasets.
- Hybrid Storage Solutions: Maintain a mix of on-premise and cloud storage to ensure business continuity.
- ETL (Extract, Transform, Load) Tools: Automate and streamline data migration using AWS DataSync, Google Cloud Transfer Service, and Azure Data Factory.
- · Data Validation & Integrity Checks: Implement automated data verification tools to prevent corruption during transfer.

By implementing a structured data migration plan, organizations can minimize downtime and prevent costly disruptions.

Common Challenges and Solutions of Cloud Migration

3. Security and Compliance Hurdles

Security remains one of the biggest concerns in cloud adoption, especially for industries with **strict regulatory requirements**, such as healthcare, finance, and government. Improper configurations, lack of visibility, and multi-cloud environments can expose companies to cyber risks.

The Challenge

- Expanded attack surfaces in cloud environments increase vulnerability.
- Ensuring compliance (GDPR, HIPAA, PCI DSS) adds complexity to migration.
- Lack of visibility into security controls leads to misconfigurations and potential breaches.

The Solution

- Zero-Trust Security Model: Implement continuous identity verification and least privilege access to reduce risk.
- Cloud-Native Security Tools:
 - o AWS Shield for **DDoS protection**
 - o Azure Security Center for threat detection
 - o Google Cloud Security Command Center for security visibility
- Automated Compliance Audits: Deploy real-time monitoring tools to check for policy violations and regulatory compliance.

A proactive security approach minimizes risk exposure and ensures compliance with industry regulations.

4. Downtime and Business Disruptions

Migrating to the cloud without a clear transition plan can result in **unexpected downtime**, **performance degradation**, **and loss of business continuity**.

The Challenge

- Poorly planned migrations can lead to unexpected service outages.
- Performance degradation may negatively impact customer experience.
- Recovering from a failed migration is difficult without a rollback strategy.

The Solution

- Thorough Testing: Use sandbox environments and test migrations before full deployment.
- Incremental Migration: Move workloads in phases to avoid large-scale disruptions.
- Rollback Strategy: Implement disaster recovery plans with tools like AWS Elastic Disaster Recovery and Azure Site Recovery to
 quickly restore operations.

A structured approach reduces downtime while ensuring a seamless user experience.

Common Challenges and Solutions of Cloud Migration

5. Cost Management During Migration

While cloud migration often leads to **long-term cost savings**, many businesses experience **unexpected expenses** due to poor cost optimization.

The Challenge

- Overprovisioning cloud resources leads to wasteful spending.
- · Unmonitored data transfers result in high egress costs.
- · Unclear pricing models make it difficult to predict long-term costs.

The Solution

- Cloud Cost Management Tools:
 - o AWS Cost Explorer for real-time cost tracking
 - o Google Cloud Pricing Calculator for **budget estimation**
 - o Azure Cost Management + Billing for financial forecasting
- Rightsizing Resources: Regularly audit workloads and scale cloud resources based on actual demand.
- · FinOps Strategy: Treat cloud financial management as an ongoing process, optimizing costs continuously.

Proactive cost management ensures that businesses maximize ROI while minimizing waste.

6. Application Modernization: A Critical Component of Cloud Migration

One of the biggest challenges of cloud migration is **ensuring that applications are optimized for cloud environments**. Traditional **monolithic architectures** often perform inefficiently in the cloud, limiting scalability and flexibility.

The Challenge

- Legacy applications lack cloud compatibility and require modernization.
- Poorly optimized workloads do not fully utilize cloud scalability.
- Migration without modernization can result in increased costs and technical debt.

The Solution

Organizations must choose the right modernization approach:

- · Containerization: Transitioning applications to Docker and Kubernetes improves portability and scalability.
- Microservices Architecture: Breaking monolithic applications into modular microservices enhances agility and maintainability.
- Serverless Computing: Using AWS Lambda, Azure Functions, or Google Cloud Functions eliminates infrastructure management overhead.
- · Al and Automation: Leveraging Al-driven performance optimization tools can improve cost efficiency and processing speeds.

Application modernization future-proofs IT systems, ensuring businesses can scale, adapt, and innovate in the cloud.

Overcoming Cloud Migration Challenges

While cloud migration presents significant challenges, **organizations that address these obstacles proactively** can turn potential roadblocks into opportunities for **efficiency**, **innovation**, **and growth**.

Key Takeaways

Strategic Planning is essential for a seamless transition.

Security and Compliance must be prioritized to mitigate risks.

Application Modernization is critical for unlocking cloud benefits.

Cost Optimization ensures financial efficiency in cloud environments.

Each organization's cloud migration journey is unique, but by leveraging automation, best practices, and continuous monitoring, businesses can successfully transition to a scalable, secure, and cost-effective cloud infrastructure.

Cloud migration is not just about moving workloads—it is about **building a future-ready IT foundation** for long-term **business resilience and growth**.



Lessons Learned from Complex Cloud Projects

Organizations across various industries have faced and overcome cloud migration challenges. Here are three case studies illustrating best practices and lessons learned:

Case Study 1:

Netflix's Transition to AWS

Netflix is a leading entertainment company, providing streaming services for movies and television series to over 200 million subscribers worldwide. Founded in 1997 as a DVD rental service, Netflix has evolved into a dominant player in the digital streaming industry.

Challenges:

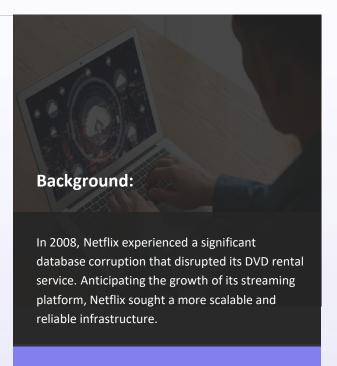
- Frequent database outages affecting service reliability.
- Need for rapid scaling to accommodate a growing user base.

Migration Strategy:

- Adopted a cloud-first approach by migrating operations to Amazon Web Services (AWS).
- Implemented a gradual migration, starting with non-critical systems to minimize risks.
- Developed tools like "Chaos Monkey" to test system resilience by simulating failures.

Outcomes:

- Enhanced scalability, supporting a thousand fold increase in streaming hours from 2007 to 2015.
- Improved system reliability and resilience to failures.
- Freed up resources to focus on innovation and customer experience.



Lessons Learned:

- Embracing cloud infrastructure can significantly improve scalability and reliability.
- Developing tools to simulate failures ensures system resilience.
- A phased migration approach helps in managing risks effectively.

Case Study 2:

Capital One's Cloud-First Strategy

Capital One is a diversified bank holding company specializing in credit cards, auto loans, banking, and savings accounts. It is one of the largest banks in the United States, known for its innovative use of technology in banking.

Challenges:

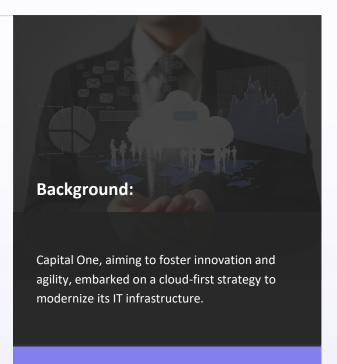
- Ensuring security and compliance in a highly regulated industry.
- Migrating complex, customer-facing applications without disrupting services.

Migration Strategy:

- Partnered with AWS to leverage a robust and secure cloud platform.
- Prioritized migration of high-impact applications, including mobile banking and customer account platforms.
- Implemented rigorous security measures to protect sensitive data.

Outcomes:

- Achieved greater operational agility and faster deployment of new features.
- Enhanced customer experience through improved application performance.
- Maintained stringent security and compliance standards.



Lessons Learned:

- Strategic partnerships with cloud providers can facilitate secure and efficient migrations.
- Focusing on high-impact applications can yield immediate benefits.
- Maintaining compliance requires integrating security throughout the migration process.

Case Study 3:

Kela's Mainframe Rehosting

Kela, the Finnish social insurance institution, is responsible for providing basic economic security to Finnish residents through various benefits and services, including health insurance, pensions, and unemployment benefits.

Challenges:

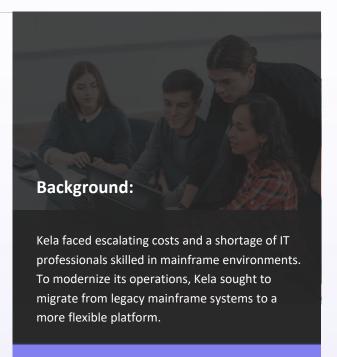
- Migrating over 10 million lines of code without disrupting critical services.
- Ensuring the new system could handle extensive data processing requirements.

Migration Strategy:

- Utilized OpenFrame to rehost mainframe applications onto a Linux-based platform.
- Conducted thorough testing to ensure functionality was preserved post-migration.
- Engaged existing IT staff in the migration process to retain institutional knowledge.

Outcomes:

- Reduced system maintenance costs significantly.
- Improved system performance and scalability.
- Enabled retention of existing IT staff by minimizing changes to application interfaces.



Lessons Learned:

- Rehosting can be a cost-effective alternative to complete system redevelopment.
- Involving current IT personnel facilitates a smoother transition.
- Thorough testing is crucial to ensure system integrity during migration.

Best Practices for Successful Cloud Migration

1. Conducting a Thorough Pre-Migration Assessment

Before initiating migration, businesses must evaluate their existing IT landscape, identify dependencies, and determine the most suitable cloud model (public, private, or hybrid).

2. Choosing the Right Cloud Provider and Architecture

Selecting a cloud provider depends on factors such as compliance requirements, scalability, and cost. Comparing AWS, Azure, and Google Cloud based on workload needs is crucial.

3. Developing a Robust Data Migration Strategy

Using data migration frameworks like AWS Snowball, Azure Data Factory, or Google BigQuery ensures secure and efficient data transfer.

4. Ensuring Business Continuity During the Transition

Organizations should adopt multi-region deployment strategies, disaster recovery solutions, and load-balancing techniques to prevent service disruptions.

5. Post-Migration Optimization and Performance Tuning

Continuous monitoring using cloud observability tools like AWS CloudWatch, Azure Monitor, and Google Cloud Operations Suite ensures optimal performance.

Conclusion: Turning Challenges into Opportunities

Cloud migration presents significant challenges but also unparalleled opportunities for businesses to modernize and scale. By learning from past migrations, implementing best practices, and leveraging expert guidance, organizations can successfully transition to the cloud while minimizing risks and maximizing benefits. Cloud computing is not just an IT decision; it is a strategic business enabler that fosters innovation and long-term growth.

Cogent Infotech's Cloud Migration Services

Structured, Scalable, and Data-Driven Cloud Migration

Cloud migration is a critical step toward enhancing scalability, performance, and operational efficiency. **Cogent Infotech** provides a structured approach to migrating applications, data, and workloads to cloud environments while minimizing risks and disruptions. Our methodology ensures seamless transitions, leveraging best practices, automation, and data-driven insights.

Key Aspects of Our Cloud Migration Approach

1. Cloud Readiness Assessment

Before migration, a comprehensive assessment is conducted to evaluate existing infrastructure, dependencies, and performance metrics. This includes:

- Application inventory and classification based on complexity and business impact.
- Workload dependency mapping to determine the optimal migration sequence.
- Cost-benefit analysis for different cloud models (public, private, hybrid, or multi-cloud).

2. Migration Strategy Development

We develop a tailored migration roadmap based on industry standards and business objectives, ensuring the right balance of cost, performance, and security. The strategy may include:

- Rehosting (Lift-and-Shift) Moving applications to the cloud with minimal modifications.
- Replatforming (Lift-Tinker-and-Shift) Optimizing workloads for cloud environments.
- Refactoring (Cloud-Native Transformation) Re-architecting applications for maximum scalability and efficiency.

3. Secure and Efficient Migration Execution

Our migration process ensures minimal downtime and secure data transfer, incorporating

- Automated migration tools for efficiency and accuracy.
- Parallel deployment strategies to reduce business disruption.
- Security and compliance validation to align with industry standards.

4. Post-Migration Optimization and Management

After migration, continuous monitoring and optimization ensure peak performance and cost efficiency.

- Performance benchmarking and tuning for cloud-native capabilities.
- Security and compliance audits to mitigate risks.
- Cost monitoring and resource allocation adjustments to optimize cloud spending.

Why a Structured Migration Approach Matters

A well-planned migration strategy helps organizations:

- Reduce operational risks and avoid business disruptions.
- Improve performance with cloud-native optimizations.
- Enhance security and compliance with built-in governance models.
- Optimize costs through automation and resource allocation.

By leveraging proven frameworks and deep industry expertise, **Cogent Infotech** ensures a data-driven, secure, and scalable cloud transition that aligns with your business objectives.

About Cogent Infotech

Cogent Infotech is a technology & talent development company headquartered in Pittsburgh, PA, USA. The ISO-certified company works with 65+ Fortune 500 companies and 100+ government agencies and helps them grow their business by providing staffing services and deploying top tech talent. Cogent also empowers businesses to digitally transform through its expertise in Cloud Computing, Cybersecurity, Application development & Modernization, Data Analytics, and AI.

Cogent Infotech is a top **100 minority-owned business** certified by NMSDC with delivery centers in Pittsburgh, Dallas, Washington DC, New York City, and San Francisco.

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