CLOUDLEAF

Modernize with
aws

Modernizing your applications, infrastructure, and systems to meet customer demands and to remain agile is critical to staying relevant in a rapidly changing market.

As business demands increase and customers expect quick and efficient services, the only way to keep up is to convert aging applications to more modern architectures.

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Modernization involves more than just investing in technologies or moving to the Cloud. It takes an expert strategy starting from a comprehensive understanding of the applications and their interrelationships with other systems.

CloudLeaf follows a a holistic and iterative approach to enterprise-scale modernization recommended by Amazon Web Services:

Automation

Developer Workflows

Self-Service Data

Architecture Evolution

Organization for Value

CloudLeaf ensures that your organization has a successful modernization journey with the following business outcomes:

Business agility – Gaining the effectiveness to translate business needs into requirements. Making the organization responsive to business requests, and providing control in releasing functionality into production environments.
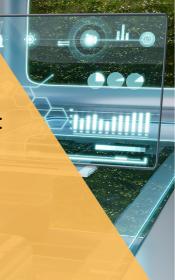
Organizational agility – Adopting delivery processes that include agile methodologies and DevOps ceremonies. We support clear role assignments and overall collaboration and communication across the organization.

Engineering effectiveness – We ensure improvements in quality assurance, testing, continuous integration and continuous delivery (CI/CD), configuration management, application design, and source code management.

Application Modernization:

Application Modernization, when taken up in a phased manner, provides incremental value in different phases:

1. Applying modernization dimensions to a subset of core, business-differentiating applications, and

2. Accelerating modern technology adoption.

CloudLeaf uses the iterative AWS approach to application modernization which has three high-level phases:

Assess

- Readiness assessment
- Team alignment
- Determine supporting infrastructure
- Determine application middleware and other components
- Review SLAs, OLAs, disaster recovery and backup strategies

Modernize

- Rehosting/refactoring/rearchitecting/rebuilding the application in the Cloud
- Using Cloud-native patterns
- Offloading undifferentiated workloads
- Decomposing monolithic applications into microservices
- Integrating with AWS serverless services
- Automate governance, incident and continuity management, change management, security management, financial management, capacity planning and forecasting, reporting and analytics

Manage

- Change management
- Risk management
- Program management
- Quality assurance
- Service excellence

Modernization Frameworks	Industry Frameworks	Reference Architectures

Modernization Strategies	A3 Agile Architecture	BestShore Optimization

Application Modernization Program Management

Scope Management	Portfolio Management	Change Management
Governance	Resource Optimization	Quality Assurance

Infrastructure Modernization:

Moving from on-premise databases onto AWS Cloud data infrastructure eliminates the need to buy, own, and maintain physical data servers. Choose from 15+ purpose-built Cloud databases. Switch from commercial engines to open-source Cloud-based compatible databases.

Our Approach

Traditional datawarehousing systems cannot keep up with the growing volume and complexity of data. It can be complex and cost-prohibitive to manage open-source analytics software like Apache Hadoop/Spark, Elasticsearch, and Apache Kafka on-premises.

With infrastructure modernization solutions from CloudLeaf, moving to AWS Cloud database becomes easier and frees your teams from the hassles of managing infrastructure and operations. We help to accelerate modernization of data warehousing, and data analysis by applying AWS-developed AI, ML and automation tools.

PREREQUISITES
Validate existing foundations

REQUIREMENT GATHERING
Review scope in terms of servers, source, target configurations

DESIGN AND PLANNING
Define maintenance window, options for execution dependencies, test plans, roll-back procedures

EXECUTION
Use tools for migration to target environment

TESTING
Use standard validation procedures to test operations in new environment

HANDOVER
Sharing of code and knowledge transfer

Mainframe Modernization:

Business applications are generally dependent on older mainframe environments which are absolutely essential to critical business operations and contain crucial data. But can they cope up to modern business challenges that require better functionality, greater flexibility, and unlimited scalability?

Modernization Strategies

Update your old legacy mainframe systems to gain the complete benefit from any digital transformation initiatives. With high data generation and use, moving to the Cloud is not just advantageous but also the logical step because depending on on-premise systems and infrastructure can prove to be expensive and difficult.

- **Automated Refactoring with Blue Age**:

Automatically converts data, code, and dependencies to modern frameworks, datastore and language.

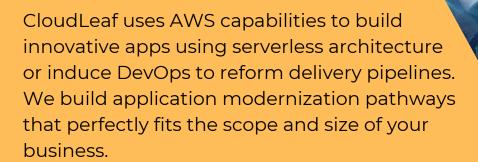- **Replatforming with Micro Focus tools**:

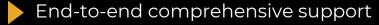Transforms mainframe workloads into agile services on AWS

CloudLeaf helps to adapt your legacy mainframe systems to modern tools like Cloud computing so that your organization can adapt better to changing market demands with appropriate Cloud-based tools.

We create a custom approach to bridge your existing legacy systems to new Cloud structures. Based on your current architecture and your business goals, we use either rehost/replatform/replace strategies and conduct efficient integrations to ensure business continuity and minimize risks.

Inefficiencies in legacy applications or infrastructure can impede innovation. Modernization not only gives legacy technologies a new lease of life but also helps the organization in terms of compliance, data safey and third-party integrations.

CloudLeaf uses AWS capabilities to build innovative apps using serverless architecture or induce DevOps to reform delivery pipelines. We build application modernization pathways that perfectly fits the scope and size of your business.

- ▶ End-to-end comprehensive support
- ▶ Complete transparency and a seamless customer on-boarding
- ▶ Multi-cloud and hybrid Cloud solutions for maximum benefit
- ▶ Hands on, enlightened leadership,program, and project management
- ▶ Flexible Pricing and custom support models
- ▶ Trained and certified consultants

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