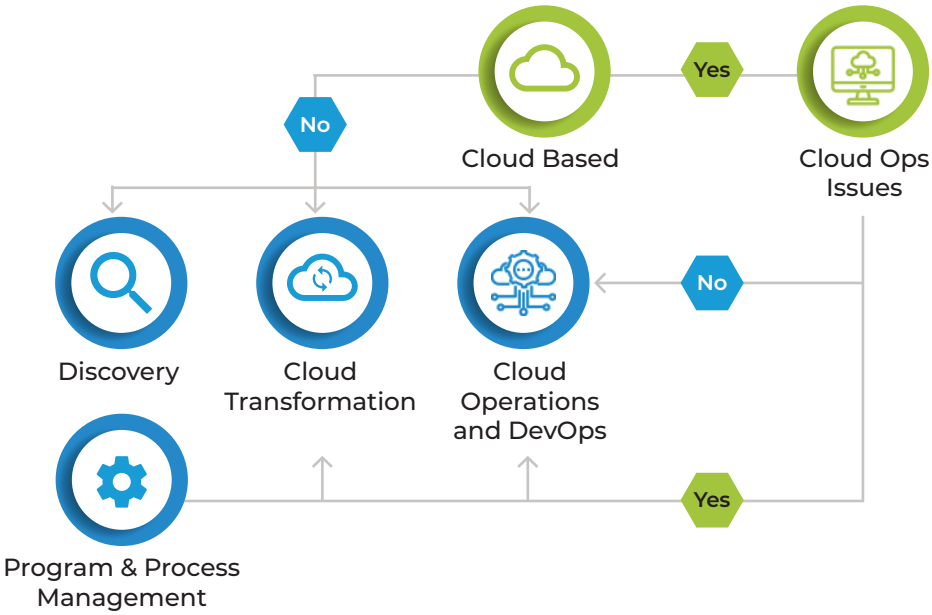
magic software
bringing learning to life

Cloud Solutions

Transform, Manage, Operate

Cloud Assessment



- Do you lack proper Cloud Transformation Road map? **if YES, our Discovery process will help you to build your road map and journey**
- Are you failing to achieve your Cloud Transformation objectives? **if YES, our Cloud Transformation framework can help you achieve your objectives**
- Are you missing your targets on cost, scalability and time to market on cloud? **if YES, our Automated Cloud Operations and DevOps framework can help managing your target goals**
- Are your costs and time to market on cloud creeping up with usage? **if YES, our Cloud Program and Process management services can help in smooth running of your program**
- Are you satisfied with your current level of Automation of Cloud transformation and operations , **if NO then our end to end Cloud automation fabric & Cloud DevOps can help you achieve it**

Cloud Life-cycle Journey

- On-prem to cloud discovery
- Cloud to Cloud discovery
- Public and hybrid cloud discovery
- Interfaces
- Agreements and certificates
- Infrastructure
- Cloud Tranformation Roadmap

Discovery → **Cloud Transformation** → **Quality Assurance and Control** → **Devops & Cloud Operations**

- Cloud Migration test stratergy and Test plan
- Test preparation and checklist
- Business users onboarding
- Infrastructure testing
- Multi Tenancy Testing
- Interface Testing
- Environment and readiness testing
- UAT & Go-live testing

- Applications as-in scope
- Applications to be in scope
- Modernization
- Cloud native application development
- Architecture optimization

- Hyper Care
- Cloud Ops
- Services and monitioning
- 24X7 Support
- Integration testing as part of Maintenance
- Automation testing
- Containerization
- Disaster Recovery stratergy and fail over implementation

Cloud Program Management and Transition

Cloud Transformation

Objective

Discover

Magic cloud Assessment and Discovery framework

Migrate

Well- defined approach of migrating into cloud

QA & Testing Transform

Cloud readiness testing while you migrate to cloud and perform post M&A integration

Operate

L1 and L2 infrastructure, cloud operations and monitoring services

DevOps

Configuration management, Application deployment, Infrastructure as code and Containerization

Approach

Discover and Migrate

- On-prem to Cloud (Public/Hybrid) Discovery and Road map
- App Modernization
- Architecture Optimization
- Cloud native application development

QA and Operations

- Cloud Readiness and Migration Testing
- Ensuring smooth Business functions by functional testing
- Strategic technology driven monitoring
- 24X7 Support and Cloud Ops

DevOps

- Infrastrucure as code
- Automated configuration Management
- Automated application deployment at scale
- Automation Testing
- Containerization

Cloud Program and Process Management

Obective

- Remediation : Re-host, Re-build, Re-platform and Re-factor so that could transformation are managed smoothly
- Based on the requirements, analyze and create Migration Strategy and Client on-boarding
- Manager stakeholders and Business heads and ensure the program runs within the time scale
- Ensuring various Project managers of all streams are aligned , risks and issues are highlighted
- Testing an important phase including Infrastructure testing, Functional testing, Interface testing, Perfor-mance testing and UAT
- Go-Live plans and support with Proper reporting and statistics

Approach

Program Inception

- Program Strategy and Plans
- Project Plans and Implementation
- Stakeholder Management
- Risk Management

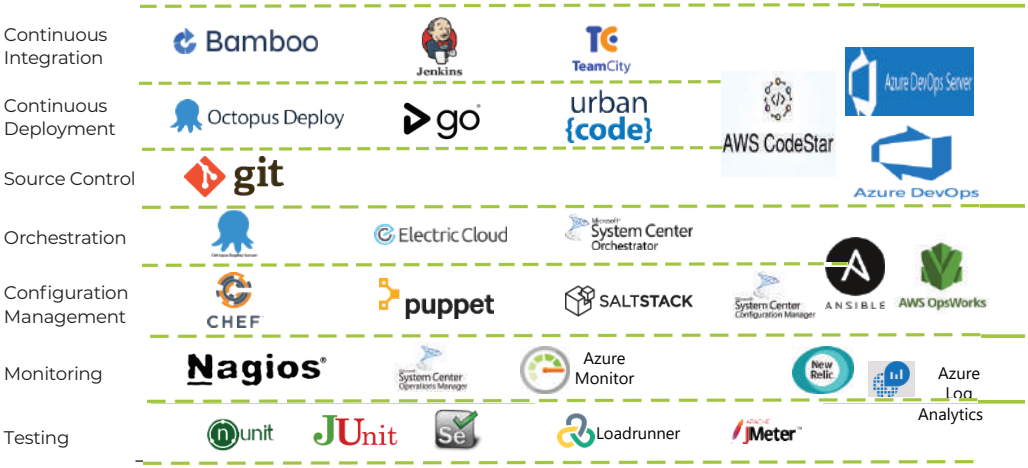
Testing and Monitoring

- Test strategies, task and check lists
- Connecting with Business users and making them aware of the changes
- User Onboarding
- Program Progress and Risk /issues management

Implementation

- Go-live plan and strategy
- Vendor management
- Hyper-care
- Roll-back and Disaster Recovery
- Go-live testing and acceptance Sign-off

Industry Leading Tools & Technologies for Product Pods



Case Study – Climate Deep Technology Organization

Business Challenges/Requirements

- Client was experiencing degraded end-user experience due to prolonged service downtimes during application deployment periods
- Due to their slow and inefficient application release processes, client's go-to-market was impacted
- Absence of automation for redundant tasks such as setting up environment
- No defined process workflows, leading to undefined controls
- They wanted end to end services from advisory till setting up their application DevOps team

Solution Highlights

- Our Magic DevOps team initiated the engagement by setting up their AWS accounts for different environment such as production, staging, QA
- Our DevOps practitioners created different application environments using AWS control tower
- Initiated with AWS cloud setup (using terraform tool) and configured the platform with RDS, EKS, VPC for the asset management application of client
- We also implemented the code base migration from the 3rd party vendor to Gitlab
- Our DevOps team configured and created CI/CD pipelines for release deployments by application development team, also deployed the security practices and policies for CI/CD pipelines
- Collaborated and suggested workarounds for any issues with application development team through our mature project governance practices
- Created docker containers for the microservices based application and deployed through Kubernetes in AWS
- Hosted the frontend of the application on the AWS S3 Cloud front
- Deployed the final asset management application in the production environment

Technology Landscape

- Source Code Management – Gitlab
- CI/CD – Gitlab CI/CD
- CD – Argo CD
- Cloud Platform – AWS(Control Tower, Organization, Landing Zone, EKS, API Gateway, Lambda Function, S3, RDS, CloudFront, CloudWatch, VPC Peering etc.)
- Monitoring and Logging – Datadog
- Infrastructure Automation – Terraform
- Container Orchestration –Kubernetes/ AWS EKS
- Database – AWS RDS Postgres
- Frontend Hosting – AWS S3 + CloudFront
- AWS Secret, HashiCorp Vault

Business Outcomes

- Automated deployment & release management process enhanced the user experience and massive reduction in disruption due to manual interventions
- Minimized overheads across development and deployment process
- Improved security and compliance as per Client's policies
- Reducing failure & service downtime risks during application releases
- Reduced process errors and better collaboration among teams
- Increased resource utilization significantly

Our Offices

New York

28th Floor, 1501, Broadway
New York, NY 10036

India

Smartworks Corporate Park,
Sector 125, Noida - 201303

Magic FinServ

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www.magicsw.com
www.magicfinserv.com

Get in Touch

www.magicfinserv.com

mail@magicfinserv.com