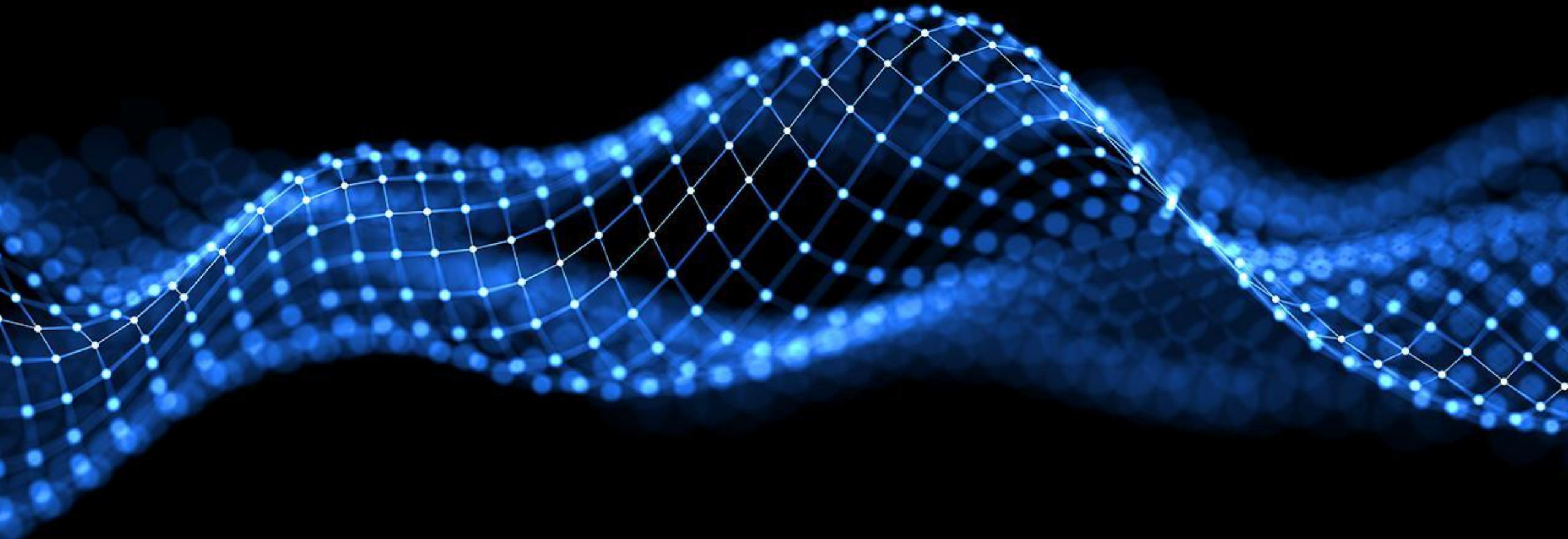


NUCLEUS SOFTWARE

Digital Transformation: Cloud Operations and Support



NUCLEUS
SOFTWARE



CLOUD OPERATIONS – FIVE PILLARS FOR EFFECTIVE CLOUD MANAGEMENT

COST MANAGEMENT

- Emphasize on workflow approval-based deployment to ensure only approved resources are deployed.
- Integrating Cloud cost management feature to ensure deployments do not exceed assigned budgets.
- Enabling Auto removal and provisioning of dev and test cloud resources.

SECURITY, GOVERNANCE & IDENTITY

- Mandatory security and compliance policies deployed with each cloud deployment.
- Ensuring identity and access to resources by consistently applying role definitions and policies assignments.
- Follow principle of least privileges to enhance security.

RESOURCE CONSISTENCY

- Deployment of resources in a consistent manner by using IAAC cloud agnostic tools such as Terraform.
- Ensures that resources can be on deployed automatically, consistently, without manual intervention.

DEPLOYMENT ACCELERATION

- Accelerate deployment through IAAC cloud agnostic deployment templates.
- Pre-defined Terraform (IAAC cloud agnostic) Templates used to bring promptness in deploying resources at any scale.
- Introduce DevOps to automate various tasks that reduce human efforts and error, allowing you to stay agile.

VISIBILITY

- Enhancing visibility on resource deployments by mandating owner and department-based tagging of every resource in cloud.
- Enabling account manager visibility on total cost incurred by deployed resources.
- Visibility of cloud resources deployment ownerships.

CLOUD OPERATION AND MANAGEMENT

Right Size VMs tuned for exceptional performance



High availability implementation using Auto Scaling



Automated backups and point in time restore



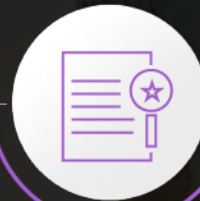
Data Replication across regions for Disaster Recovery



Automated tools for database monitoring and performance optimization



Migrating databases to Database-as-a-Service



Optimized storage configurations for better IOPS, Latency and Throughput



IOPS, Latency and Throughput assessment



Enterprise grade security and compliance



NUCLEUS CLOUD OPTIMIZATION TOOL

(Governance, Envision Services , Automating & Cost Optimizing)

Tool to Manage at any stage of Cloud Journey

Automation for best Optimization

Gather more visibility during Operations

The screenshot displays the Nucleus Cloud Optimization Tool interface. On the left is a sidebar with navigation options: Dashboard, Request List, Create Request, and Services. The main content area is titled 'Cost Optimization' and shows a 'PROD' environment with a recommendation: 'Vistara web server is under utilized EC2 as per defined benchmark can be downgraded'. Two donut charts show 'EC2 Usage' based on CPU and Memory. Below these are sections for 'Dev & Test' resources, including 'Unused Resources' (VTest-001, VDev-001), 'Resource Validity' (Test-001, Dev-001), and 'Orphan Resource Check' (Web-001, Test-001). Each resource has associated action buttons like 'TERMINATE', 'SHUT DOWN', 'SEND EMAIL TO OWNER', and 'DELETE IT'.



Manages Governance



Auto deployment and Cost Optimization



Automate Provisioning and Centralized Dashboarding

WHY NUCLEUS IS KEY FOR CLOUD OPERATION & MANAGEMENT

Cloud Best Practices

Building cloud Infrastructure by focusing on critical aspects in cloud such as Security, Performance & Cost Optimization

01

Deep Cloud Knowledge & Experience

Readily available Tools/Templates & Cloud certified expertise's focus mainly on creating well Architected Cloud framework.

02

NCPG-Tool Nucleus

Readily available NCPG Tool which will help in Cloud Governance, Infrastructure provisioning & Cost Optimization

03

Hybrid Multi-Cloud Platform Support

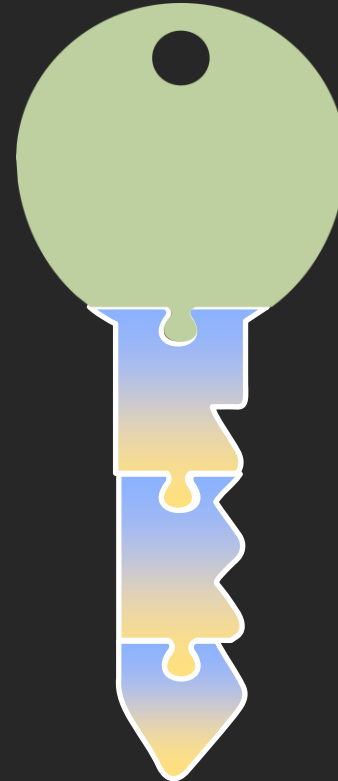
Readily available tools and reusable components to handle Multi-Cloud environment efficiently and effectively.

04

Standardize Cloud Management Process

Nucleus Tools/ Reusable template & standardize processes help in achieving Operational Excellency in overall cloud operations.

05



ABOUT NUCLEUS

Established in 1986 with corporate HQ in India & regional HQ in Dubai, Singapore, Tokyo and Amsterdam.

Vast experience of futuristic application Development, integration and testing with over 20,000 person-years of software development

Near shore office audited by Fortune 20 clients with extended BCP center.

Long Term relationships ranging from Fortune 500 companies to leading regional players to domestic leaders.

Right size organization leveraging product knowledge acquisition and retention techniques. 4 State of the Art Development centers across India & Singapore.

Publicly listed, zero debt company awarded highest corporate governance awards.

One stop shop for Application & Infrastructure to ensure single ownership with one vendor.



- ✓ Nucleus is a global software organization serving the financial services industry for the past 33 years.
- ✓ It has strong credentials and reference base for its Products & Services across various multinational and regional Banks and Government in Asia, Middle-East, Europe and Africa.
- ✓ Nucleus' strong work force of more than 2200+ professionals spread across the development centers in India and Singapore to serve its customers across the globe. Nucleus has world-class infrastructure and adheres to international standards for data security and software quality.
- ✓ For the past 33 years, 'Nucleus Services' has been providing application and infrastructure services to many prestigious customers and had pioneered in digital transformation initiatives by joining hands with its customer's. Nucleus Services has been awarded with "Best vendor in Digital Transformation space in Middle East".