

Nubo Native Platform: building castles in the cloud

Nubo Native Solutions, is a tech startup, enabling Cloud Repatriation by providing a comprehensive Cloud Platform with associated Consulting and Professional services to the Enterprises worldwide.

Nubo Native Platform (NNP) from Nubo Native Solutions is a cloud native platform that provide –

- Public Cloud like **Cloud Services** on any Cloud setup with much needed flexibility and customization possibilities, ensuring reduced **Total Cost of Ownership**
- Software Development Platform to support rapid **Cloud Native Development** with complete **Development Lifecycle Automation**, brings in much needed standardization across the architecture, design and development process with common set of tools, processes and frameworks supported by **Enterprise Low Code**.
- Enabling all-inclusive **API Lifecycle Management** with an advanced **Solution Marketplace**
- Comprehensive platform to capture, store, process and expose large and diverse **Enterprise Data and enable AI/ML** use cases

Nubo Native Platform (NNP) provides most comprehensive Cloud Native Platform, encompassing all four foundation pillars of Cloud Native, such as

- Microservices
- Automated Deployment through DevSecOps,
- API enablement & exposure
- Automated Container Lifecycle Management

Furthermore, it provides Enterprise Low-Code focused on microservice based back-end development, a comprehensive API Lifecycle Management Solution supporting API Analytics & Monetization, a Solution Marketplace to monetize developed assets and a state-of-the-art Big Data Management Platform enabling Artificial Intelligence and Machine Learning.

Nubo Native Solution provides all necessary Consultancy and Development services to Modernize and Move IT workloads into NNP and to further develop mission critical business solutions with much faster Time to Market, making it a one-stop-shop for all your Cloud requirements.

The Context

In the recent past we have experienced a strong surge in Digital Transformation across all industry segments. This was particularly influenced by the Covid19 pandemic, during which it became a necessity not only for growth but also for survival.

This sudden push for digitalization forced enterprises to adopt a more comprehensive and integrated software development and hosting environment, which is reliable and elastic in nature. Probably the most feasible option then was to adopt Public Cloud with all its services components on top of the core infrastructure as a service layer. This significantly helped organizations to effectively respond to the situation, help develop and manage their IT ecosystem efficiently.

However, over time industry realized that these hyperscale environments are not really living up to the expectations. Cost was the most dominant factor, but there are many other critical concerns like regulatory requirements, flexibility, vendor lock-in etc. Common concerns may be classified as follows.

- Cost of Public Cloud Services
- Privacy, Compliance and Information Security
- Misconfiguration and lack of control
- Performance for high-performance low latency applications
- Vendor lock-in & Skill gaps

This prompted the concept of Cloud-Repatriation which is trending highly in the tech world. Cloud Repatriation is the process of moving apps, services, and data from public clouds (like AWS, Azure, or GCP etc.) and back to on-premises data centers, private cloud, or on a hybrid setup. Companies choose cloud repatriation to reduce costs, improve privacy, and meet changing business needs.

Disillusionment with public cloud over common complaints such as unexpected costs and the potential for vendor lock-in are not the only reasons organizations move applications back on premises. Cloud repatriation is also the result of organizations taking a more prescriptive approach to workload deployment against a technological backdrop where they can enjoy the main benefits of public cloud -- especially scalability, elasticity and consumption-based pricing -- in a location of their choosing. It is becoming less reactive and more of an integral part of enterprise IT strategies.



Cloud repatriation brings in certain obvious benefits like cost savings, security & compliance, flexibility, performance and effective support for AI Workloads. However, there are few challenges that needs mitigation, such as infrastructure scalability & elasticity, availability of services and technology maturity.

Uptime Institute recent study throws interesting insight on the reason for enterprises to move away from public cloud.

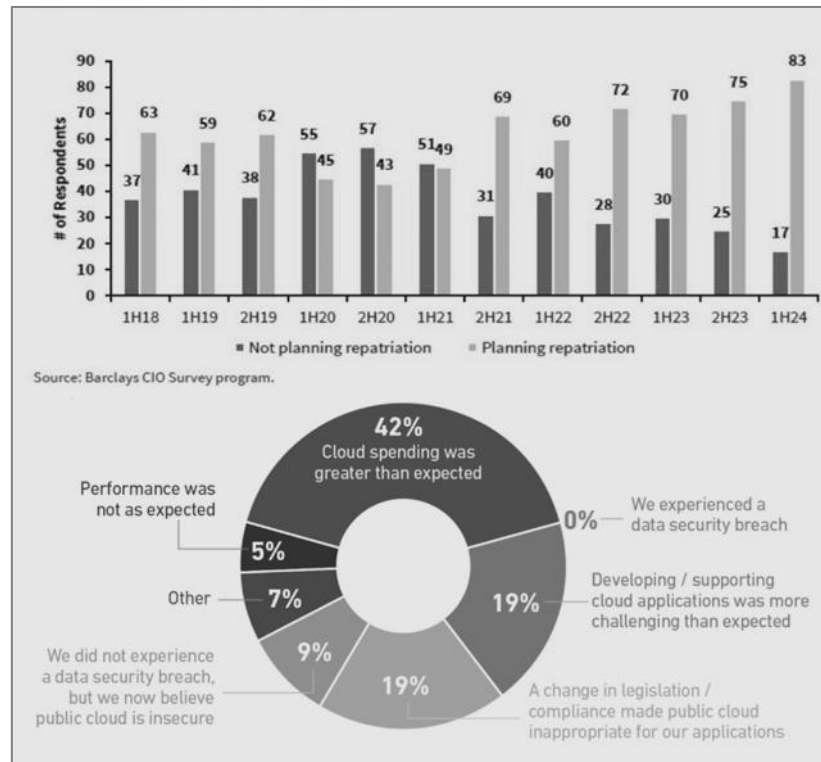


Fig 1: Enterprises in the process of public cloud repatriation

Adoption of Cloud Native

Following are the key considerations for the success of Cloud Repatriation

- Adopt Cloud Native on Private Cloud
- Automate Application & Infrastructure lifecycle.
- Implement efficient Data Management Platform
- Infuse AI across Application, Data & Infrastructure
- Enable Microservices and API
- Implement multilayer and multidirectional security.
- Embrace Edge Computing
- Explore potential of Hybrid Cloud options

One of the key enablers for successful Cloud Repatriation is the concept of Cloud Native and Cloud Native Platform. The global cloud-native platforms market size estimated at USD 4.6 billion in 2023 and projected to hit around USD 52.84 billion by 2033, growing at a CAGR of 27.70% from 2024 to 2033.

Also, the global cloud native applications market size estimated at USD 7.06 billion in 2023 and projected to grow at CAGR of 23.8% from 2024 to 2030.

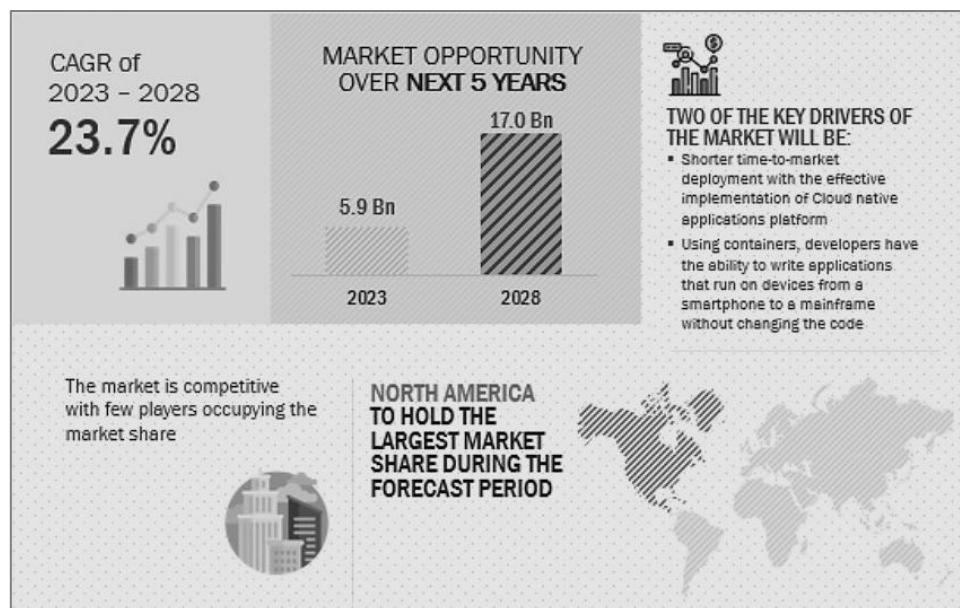


Fig 2: market & market research cloud native application market outlook

These facts inspired us to conceptualize and build our Cloud Native Platform to enable successful Cloud Repatriation for Enterprises.

Our comprehensive Cloud Native Platform

Nubo Native Platform enables Cloud Repatriation by transforming legacy infrastructure into a state-of-the-art Cloud Platform to support rapid Software Development, Application Modernization and Cloud Migration with significantly lower TCO. Along with its K8S infrastructure, platform provides an Enterprise Low Code utility, a comprehensive DevSecOps solution, Service Mesh, Serverless Computing, API Gateway, Solution Marketplace, and a rich set of open-source components & AI capabilities required for enterprise scale software solution development and cloud hosting. Additionally, it provides deep insight into your Application Logs, Automation Pipelines, API Transactions and Application performance metrics.

This is available both as PaaS and for dedicated deployment on any virtualized environment or on Public Cloud, customized to address enterprise specific business needs.

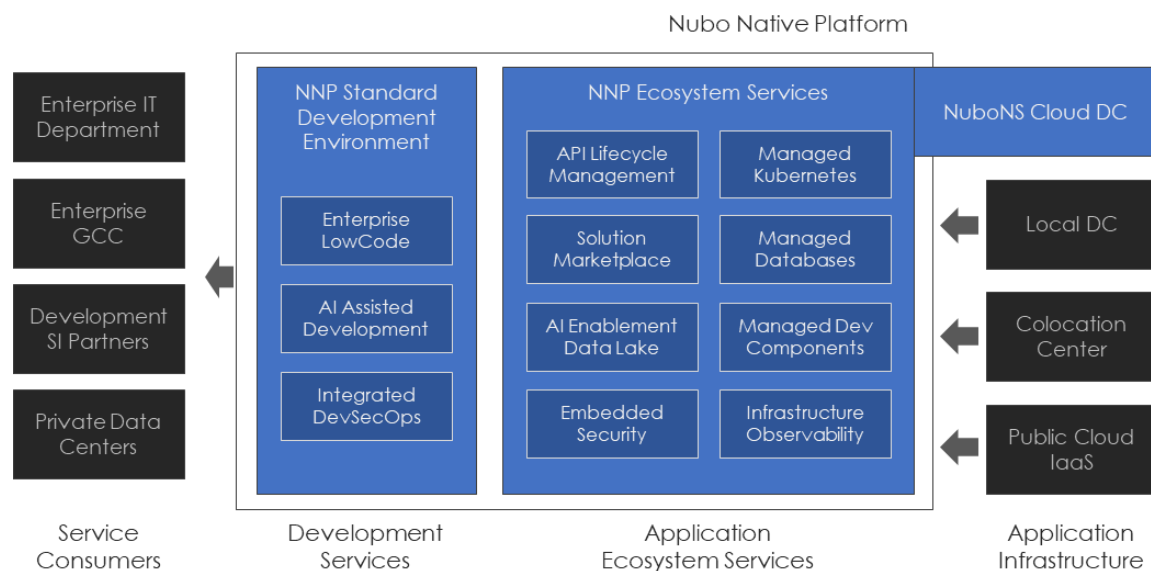


Fig: 3 – NNP's overall fitment into IT ecosystem

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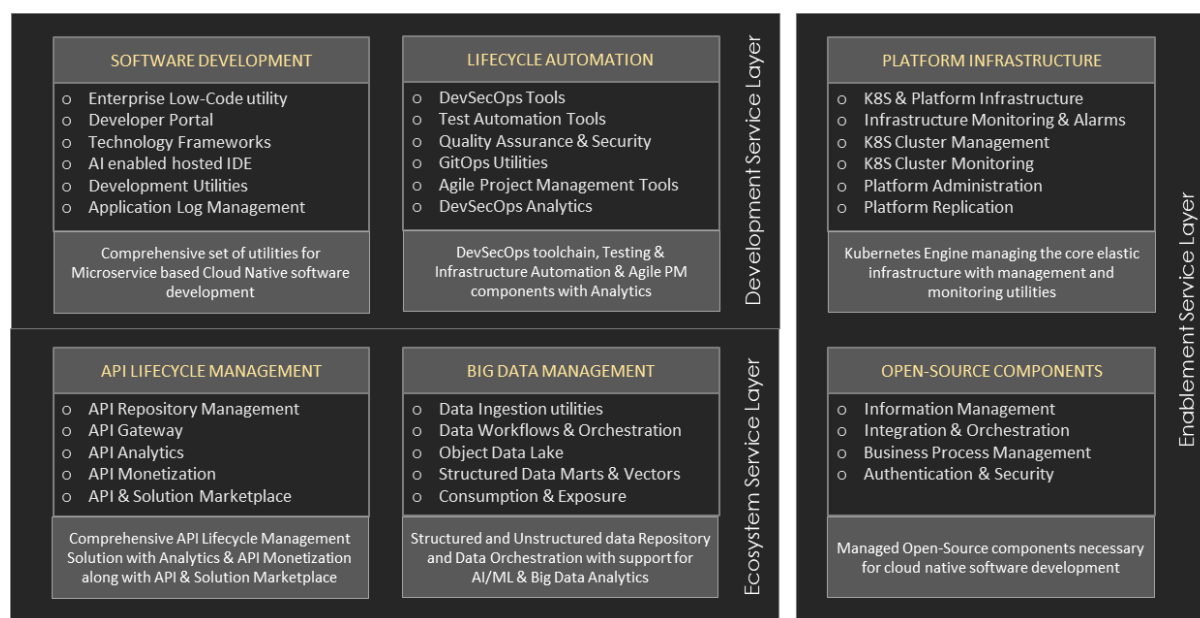


Fig: 6 – NNP components and building blocks

NNP provides Public Cloud like Cloud Services on any Private Cloud setup with much needed flexibility and customization possibilities, ensuring reduced Total Cost of Ownership.

NNP may be considered against the following key scenarios.

- Comprehensive solution to transform legacy infrastructure into a state-of-the-art Cloud Native Platform and bring home mission critical business applications.
- Platform to support rapid Cloud Native Software Development with complete Development Lifecycle Automation.
- Comprehensive platform to capture, store, process and expose large and diverse Enterprise Data and enable AI/ML use cases.
- Enabling inclusive API Lifecycle Management with an advanced Solution Marketplace

Perceived Business Benefits

Enable Cloud Repatriation

- Build a state-of-the-art Cloud Platform on the infrastructure of choice. Use flexibility of cloud infrastructure to set up a hybrid environment.
- Platform to provide a comprehensive service layer on top of cloud infra to enable monitoring, management, modernization, migration, and development.
- Significantly reduced TCO (60%)

Modernize Legacy and embrace Cloud Native

- Migrate applications to Nubo Cloud and transform them into Cloud Native
- Increase agility to implement new business requirements faster.
- Lifecycle Automation, flexibility in deployment and dynamic scaling of resources.
- Significantly lower TCO (30%)

Rapid Cloud Native Development with an integrated environment

- Quick realization of various Enterprise Use cases with Serverless & Edge capabilities
- Reduced Time to Market with automated development lifecycle management.
- Uniform, standardized architecture and design with various delivery accelerators.
- Significantly faster Time to Market (40%)

API Exposure with advanced Monetization and Marketplace

- Comprehensive API Lifecycle Management
- Ultra-Fast, Lightweight API Gateway with Authentication and Policy Control
- API Analytics and API Monetization Options
- Development Studio to Developer Community for development
- Flexible Commercial Plans and Monetization Options for developed solutions

Enterprise Big Data Repository and AI enablers

- Structured and Unstructured data Repository
- Support Vectorization AI/ML algorithms and Big Data Analytics
- Efficient and optimized Enterprise object Data Lake along with specific and purpose built structured and unstructured data repository
- Real time, low latency data ingestion with Workflow support
- Advance Data Processing and secure expose to consumers
- Significantly high ROI (40%)

Platform Professional Service offerings

Nubo Native Solution provide Cloud Adoption, Application Modernization, Application Migration to Cloud and Technology Consultancy Service to enable enterprise cloud native journey in the best possible way. NuboNS work as a partner with organizations to define and implement a long-term IT Roadmap, embracing the future technology trends.

NuboNS also provide professional services to deploy Nubo Native Platform, customized for specific business needs, enabling Cloud Repatriation and protecting existing investments. Nubo Professional Service efficiently modernize and migrate workloads into NNP with minimal business risk.

Nubo Professional Service also support further development and lifecycle management of business and technology solutions utilizing platform capabilities, significantly reducing the overall Time to Market.

Platform Offerings

- PaaS, ideal for small size Business and Individual Developers. Instant onboarding and lowest TCO. Pay as per plan and platform component usage.
- Dedicated hosted Platform for enterprises with few customization options. One time cost for environment setup and customizations. Recurring cost as per plan and support contract.
- Dedicated Platform for enterprises on the infrastructure of choice with all customization options. One time cost for environment setup and customizations. Recurring Platform License cost as per contract.
- Standardized Software Development Platform to develop and deliver business solutions and onboard development vendor ecosystem with faster time to market and greater quality of deliverables.

Service Offerings

Consulting Services

- Cloud Strategy Consulting - help define enterprise cloud strategy and long-term IT Roadmap following the industry's best practices and future technological trends.
- DevOps Consulting - define Software Development Lifecycle Automation strategy along with required Tools and Technologies. Defines transformation strategy into an Agile Delivery Organization.
- Application Migration and Modernization Consulting - define the approach and architecture for the legacy application modernization and migration into the Cloud Native ecosystem realized through NNP.
- API Consulting - define the strategy and architecture of Enterprise scale API Exposure and overall, API Lifecycle Management, including API Design, Development, Exposure, Management, Insight & Monetization.

Professional Services

- Application Migration – migrate-in applications from other virtualized environments into NNP with lowest risk and business disruptions.
- Application Modernization – modernize legacy applications into an efficient Cloud Native ecosystem provided by NNP in lowest time.
- Application Development - develop mission critical Business Applications utilizing an efficient Cloud Native ecosystem provided by NNP in lowest time and high delivery quality.

Conclusion

Cloud Native Development Platform is a key technology trend and according to many is the future of Software Development. Nubo Native Platform (NNP) is a comprehensive platform for Cloud Native application development following Microservice Architecture paradigm. NNP covers every possible aspect of an enterprise scale Cloud Native implementation.

NNP supports diverse business entities in their modernization journey

- Developers, Cloud Enthusiast: may utilize Nubo Native Platform as a Service to explore a state-of-the-art enterprise grade Cloud Native Development ecosystem.
- Start-up, SaaS Providers: Nubo Native Platform dedicatedly hosted instance to host solution development, testing, release and SaaS/Production instance to reduce TCO Significantly with a improved TTM. Supports limited customization and covered with a support contract.
- Enterprises: fully customized deployment of our Cloud Native Platform (NNP) with customized set of components and integration points, on the infrastructure of choice, protecting organization existing investments. Covered with a comprehensive SLA based support contract.

Compiled by Nubo Native Platform team

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