



NUTANIX



Wipro's BoundaryLess Universal Edge Powered by Nutanix (nBLUE)

Limitless Innovation at the Edge with nBLUE

Edge computing enables efficient and speedy data processing at the edge, enabling organizations to address the low latency applications and data processing with minimal dependence on network connectivity. An edge native application is **an application built natively to leverage edge computing capabilities, which would be impractical or undesirable to operate in a centralized data center or leveraging public cloud.** Distributed across multiple locations, these applications are leveraging cloud-native principles such as containerization, microservice-based architecture, and hybrid cloud architecture at the edge.

Globally fragmented edge locations can be managed with centrally built-in capabilities. The pay-as-you-grow, flexible financial consumption model enables customers to meet financial objectives, reduce financial risk, and lower TCO without over provisioning of edge resources.

However, edge solutions and global rollouts can be challenging. In addition, three tier legacy data center solutions are expensive and complex, lack a cloud-like experience, and are not agile enough to support business shifts and demands. Opting for point solutions to meet varied application and business needs makes matters worse.

The solution – nBLUE

Wipro and Nutanix have partnered to help enterprises address the growing challenges around edge computing with a joint solution called nBLUE. A fully managed **Edge as a Service**, nBLUE is an architectural framework built on Nutanix Cloud Infrastructure, Cloud Manager and Wipro Service Theatre. It allows granular orchestration among business, process, people, and technology that can be composed and consumed through global Edge IT and business marketplace.

nBLUE: Solution Architectural Design

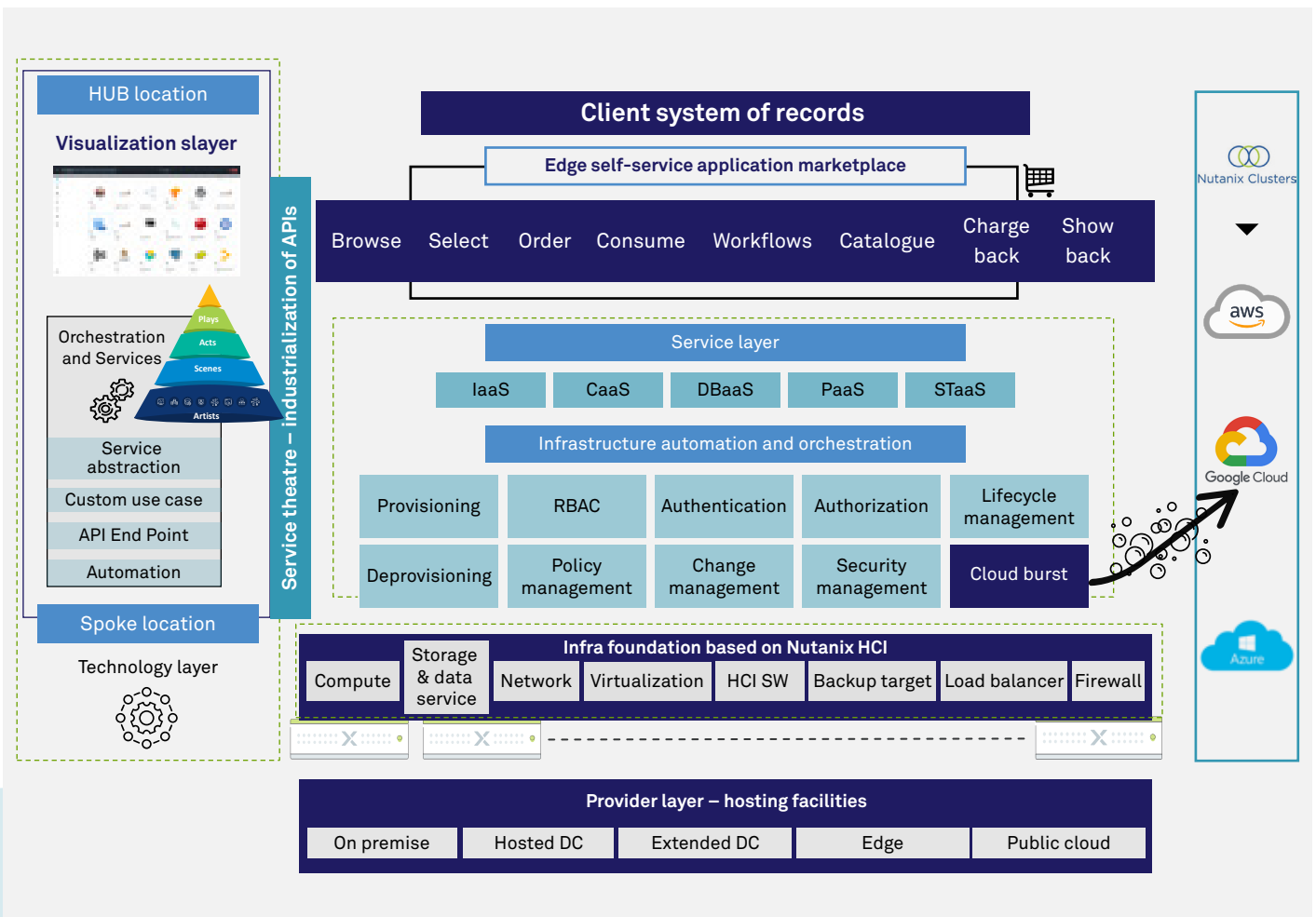


Figure 1: nBLUE - architectural building blocks

Figure 1 depicts the nBLUE architecture, built on **Nutanix hyperconverged infrastructure** and integrated with Wipro's Service Theatre. Built on top of Nutanix hyperconverged platform, **Nutanix Cloud Manager (NCM)**, it adds the control plane for provisioning, operating, automating, and governing workloads across clouds. NCM combines administration, reporting, intelligent infrastructure, self-service, application automation and application provisioning with cost and security governance. With this, nBLUE allows customers to build a unified platform for delivering traditional and modern application needs through IaaS, CaaS, DBaaS, and PaaS at the Edge—with capabilities of autonomous life cycle management, zero-touch deployment, Edge SecOps, self-healing, and distributed computing architecture for elasticity and agility.

Nutanix Unified Storage (NUS)

provides an alternative to traditional storage servers for unstructured files and objects stores. As a distributed and software defined storage solution, it allows organizations to serve any workload anywhere — from the core to the edge, and to the cloud. Intelligent analytics integrated into the solution provide data visibility and deep insights for governance and security of data.

On Public Cloud, Nutanix Cloud Clusters (NC2)

provides an alternative to traditional storage servers for unstructured files and objects stores. As a distributed and software defined storage solution, it allows organizations to serve any workload anywhere — from the core to the edge, and to the cloud. Intelligent analytics integrated into the solution provide data visibility and deep insights for governance and security of data.

Marketplace for Business and Edge IT

allows business and IT users to provision and manage the edge services they need with an easily accessible GUI offering self-service capabilities.

Security is the key consideration in nBLUE EdgeSecOps

Flow Network Security (FNS) offers policy-based network security tightly integrated into Nutanix AHV and Prism Central, and provides rich visualization, automation, and security for VMs running on AHV. Micro segmentation is a component of FNS that simplifies policy management.

On the other hand, Flow Security Central's (FSC) centralized view of the security posture helps organizations detect and remediate security vulnerabilities in the edge cloud infrastructure in near real time. With its event-driven architecture, organizations can detect, analyze and report over 800 security audit checks that are provided out-of-the-box in FSC.

Scalability from edge to hybrid multicloud

Even with edge cloud, bursting to either on public or the on-premise private cloud is an essential functionality for data protection, archiving, compliance, analytics, etc. nBLUE delivers seamless and automated cloud burst functionality so that edge IT can leverage fast cloud provisioning.

Wipro's Automation engine 'ServiceTheatre' with next generation managed services

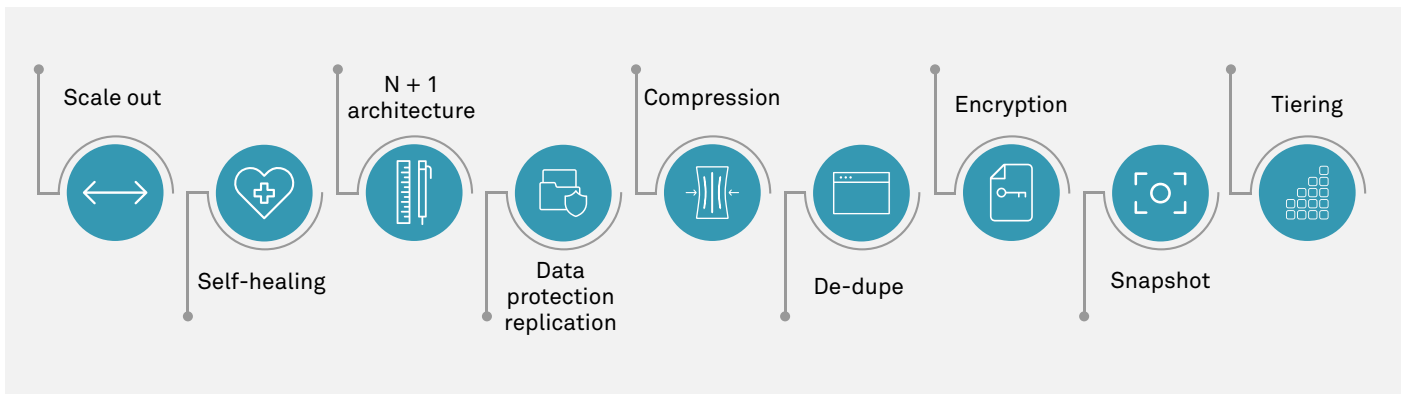
Wipro's Service Theatre accelerates services roll out during various phases of an IT lifecycle such as build, operate, and modernize. It leverages modular automation and composability of services exposed as API endpoint. These services can be augmented or called directly from the digital platform, self-service portal, and DevOps workflows.

nBLUE business value delivered

- **Lower cost per sq. feet**
- **No CapEx, Edge-as-a-Service and Shared Services with cost amortization through hub and spoke edge cloudlets**
- **Cloud consumption models**
- **Faster time to market**
- **Lowered costs: 54% lower for ownership, 51% lower to admin, and 69% lower cost of acquisition**
- **\$1.4 Mn saving over 3 years**



In-built features in nblue



Partnership with HPE

HPE is Wipro's hardware partner to deliver flexible nBLUE and As-a-Service model.

The global partnership between HPE and Nutanix leverages HPE GreenLake to provide customers with a fully managed solution that dramatically lowers total cost of ownership and accelerates operational productivity.

Flexibility

- Minimum commit
- Licence and deployment flexibility with additional licence buffer
- Services tailored to requirements

Financial

- Financial net present value/value of cash—monthly payment in arrears

Security and reliability

- HPE ProLiant DX is a very stable platform
- Reliability of Nutanix SW



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