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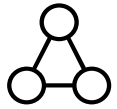
# Application Modernization

Creation of solutions capable of supporting Clients in their transformation process: from innovative solutions for the provisioning and management of infrastructures capable of hosting containerized services, to tools to support application transformation, up to technologies capable of improving agility (e.g. by leveraging mainframe virtualization and off-loading).

# Hybrid Cloud Distributed Microservices on Software Defined Infrastructure

accenture | COMMVAULT





## Context and client challenges

- New trends are emerging as part of today's modern data centers creating new challenges for IT
- Multi/Hybrid cloud adoption is increasing, asking more agility to manage data fragmentation as well as new cloud services
- Companies are moving to containerized applications demanding for innovative and dynamic storage solutions
- Software-defined storage deployments are accelerating, enabling customers to manage distributed architecture, writing data simultaneously across multiple locations

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## New Approach & solution

- We enabled a Software Defined Infrastructure to protect Cloud native containers applications in a multi/hybrid cloud and multi Data Center scenarios leveraging on CommVault Hedvig technology
- Hedvig is an hybrid cloud-native software-defined storage fully integrated with Kubernetes via CSI, allowing storage to be consumed by containerized applications as persistent storage and enabling developer dynamically provision storage, expand capacity, schedule snapshots, and recover persistent volumes using array-specific capabilities

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## Client benefits

- Eliminates the risk of losing access and control Enable DevOps capabilities allowing developer to provision persistent storage quickly with self-service access using native K8s tools
- Enables multi-cloud, hybrid cloud and multi-site resiliency
- Provides fault tolerance against an infrastructure failure from a disk to a node to a site
- Enables multi-cloud, hybrid cloud and multi-site resiliency
- Provides fault tolerance against an infrastructure failure from a disk to a node to a site
- Enables the agile multi-site application portability
- Enhanced data sovereignty and compliance
- Run on industry standard servers

# Athos for Hybrid and Multi-Cloud Environments

accenture | Google Cloud



## Context and client challenges

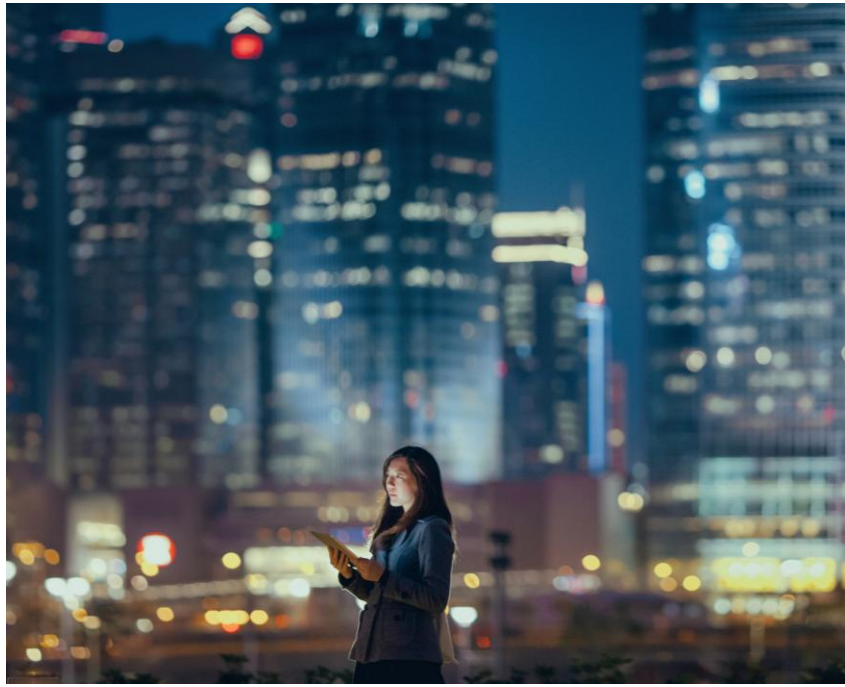
- Many companies need to centrally manage their IT infrastructure, with multi-cloud solutions allowing them to boost their digital transformation
- This passes through a coherent platform for the development and modernization of applications, both legacy and cloud native ones, which offers a view of the services of all environments.

## New Approach & solution

- Through the Google Anthos platform we can support customers modernize and improve the scalability of their applications
- With Anthos we can transform enterprises using VMs-based on-Prem environments or isolated Kubernetes cluster-based workloads, into new Multi-Cloud scenarios that allow for automatic provisioning of nodes and scaling
- We can also leverage Google Cloud's offerings and tools to create a secure, scalable, and automated CI/CD pipeline for the on-premises and cloud development team

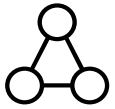
## Client benefits

- Run applications closer to end users and beyond the data centers in public cloud environments
- Enable a modern CI/CD approach in cloud and modernize existing applications and build cloud native applications anywhere
- Monitor, troubleshoot, and improve application performance from a single pane of glass
- Reduce cloud application deployment time from days to seconds



# Composable Architecture: Enabling a New Approach to Application Development





## Context and client challenges

- The digital landscape is in a constant state of flux. New, disruptive services emerge daily, driven by the boundless potential of technology.  This forces businesses to adapt with agility to stay competitive
- Customers demand rapid response. To thrive in this dynamic environment, companies need a software deployment strategy that prioritizes speed and flexibility
- This ensures fast application development and deployment cycles, allowing companies to capitalize on fleeting market opportunities

## New Approach & solution

- Composable architecture allows enterprises to assemble independent and reusable components to create digital experiences:
- How to leverage the composable architecture approach
- How to integrate 3rd-party technologies to improve the composable architecture scenarios
- How to leverage on Nutanix Database Service (NDB) to automatically deploy and manage the data layer via a custom API developed via Mia Platform
- How composable architecture simplifies applications deployment in multi-hybrid cloud, allowing component swapping or updating

## Client benefits

- Increased Agility: Composable architectures enable swift adaptation using pre-built components, while NDB automates database provisioning for rapid scaling
- Reduced Costs: By eliminating the need to develop and maintain custom software from scratch, composable architectures can help businesses reduce IT costs
- Improved Scalability: The independent scalability of PBCs and DB (thanks to NDB capabilities) allows applications built with a composable architecture to easily scale up or down to meet fluctuating demands
- Enhanced Reliability: Component failures minimally impact the app, with full control of the data layer via NDB

# Multi-Cloud Governance and Optimization

accenture | NUTANIX



## Context and client challenges

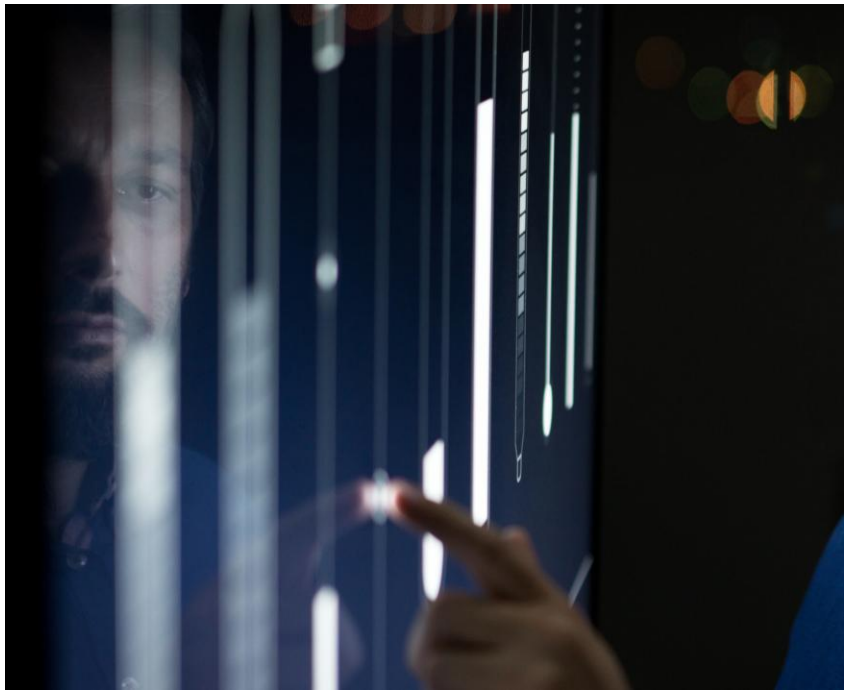
- Companies adopting Hybrid Cloud require a comprehensive solution to effectively manage, govern, and optimize the usage of both cloud and non-cloud resources
- However, it is often extremely difficult to deploy and manage applications that span clouds
- Deployment processes are error prone and unreliable, and complex management increases costs and decreases business agility

## New Approach & solution

- To address the challenges associated with hybrid Multi Cloud infrastructure, including application automation, monitoring and governance, Accenture and Nutanix have defined a solution, based Nutanix Cloud Manager Self-Service, Nutanix Cloud Manager Cost-Governance, and Prism (formerly Nutanix Calm, Xi Beam and Prism Central technologies), to simplify and accelerate Hybrid Multi Cloud adoption

## Client benefits

- Rapid Innovation: Blueprinting, automated provisioning, and rapid application deployment help speed up innovation
- Decreased time to market: Clearly defined workflows and rapid innovation cut your time to market
- Avoid vendor lock-in: Leverage multiple public clouds while simplifying operations.
- Improve agility: Accelerate application deployment with E2E process automation for provisioning or other actions
- Increased security and decreased costs: Multi Cloud security and cost control deliver optimal results



# Multi-Cloud Governance for End User Computing (EUC)



## Context and client challenges

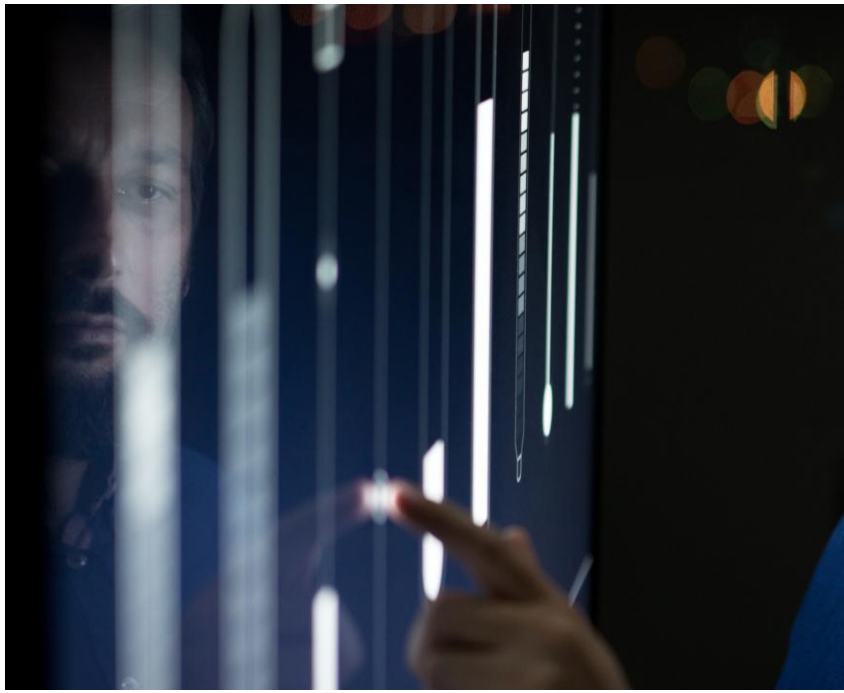
- Smart working and agile work are becoming increasingly the norm for employees in many companies
- This increases the importance of improving companies' workplace systems and adopting solutions to automate their provisioning
- Enabling an elastic digital workplace experience requires modern, stable, scalable platforms and applications in combination with devices that are cost efficient and secure, integration services, and an evergreen IT operating model

## New Approach & solution

- Our solution allows organizations to simplify EUC deployment and ongoing management
- The combination of Accenture's expertise in enterprise environments and Nutanix's innovative technologies integrated with Citrix VDI enables IT organizations to automate the provisioning and the maintenance of critical Hybrid Multi Cloud EUC environments, including application and infrastructure deployments

## Client benefits

- Decrease time to market: Automated workflows ensure software can be tested and released quickly
- Improve agility: End-to-end process automation reduces manual effort and friction between teams
- Reduce risk: Ensure that software and OS bug fixes reach production quickly; reduce potential exposure to CVEs



# Composable Architecture: Enabling a New Approach to Application Development



## Context and client challenges

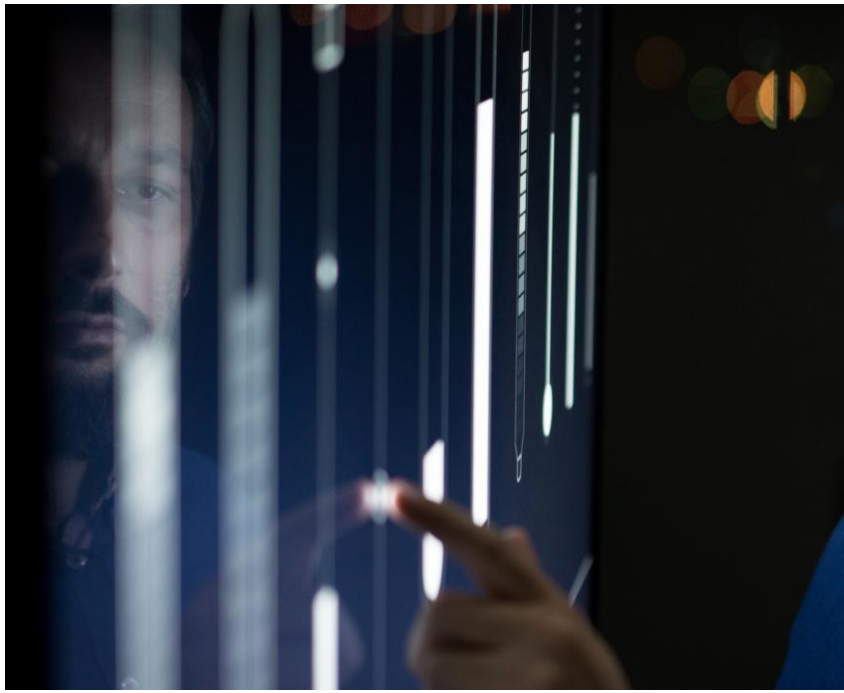
- The digital landscape constantly evolves, requiring businesses to adapt quickly. A fast, flexible software deployment strategy enables rapid development and market responsiveness, helping companies seize opportunities

## New Approach & solution

- Composable architecture is a modern approach that allows enterprises to assemble independent and reusable components to create digital experiences:
  - How to leverage the composable architecture approach
  - How to integrate 3rd-party technologies to improve the composable architecture scenarios
  - How to leverage on Nutanix Database Service (NDB) to automatically deploy and manage the data layer via a custom API developed via Mia Platform
  - How composable architecture simplifies applications deployment in multi-hybrid cloud, allowing component swapping or updating

## Client benefits

- Increased Agility: Composable architectures enable fast adaptation with pre-built components; NDB automates database provisioning for rapid scaling
- Reduced Costs: Eliminates the need for custom software development, lowering IT expenses
- Improved Scalability: Independent scalability of PBCs and DB with NDB allows apps to scale easily
- Enhanced Reliability: Component failures minimally impact the app, with full control of the data layer via NDB



# Support applications migration in K8S heterogenous environments



## Context and client challenges

- The adoption of modern cloud-native applications, particularly based on Kubernetes, is rapidly accelerating
- Both on Cloud and On Premise, Customers have different opportunities to leverage on the advantages of this technology
- Despite K8S numerous advantages, protect or move application to the cloud/On Prem is not easy as expected

## New Approach & solution

- Leveraging on Veeam K10 we can:
  - Setup a centralized data protection environment to protect Central and branch offices
  - Enable Customers to perform application migration between heterogenous container platforms (Onprem to Cloud and viceversa)
- Simplify the Openshift cluster management enabling easy applications migration between Openshift environments

## Client benefits

- Enable Kubernetes based applications data protection via a Kubernetes native backup solution
- Enable Customers to move entire applications between clouds and on-premises for test/dev, load balancing, data management, upgrades or DR
- Use automated policies to manage how backups are securely replicated off-site and will meet business and regulatory requirements.

# About Accenture

Accenture is a leading solutions and global professional services company that helps the world's leading enterprises reinvent by building their digital core and unleashing the power of AI to create value at speed across the enterprise, bringing together the talent of our approximately 779,000 people, our proprietary assets and platforms, and deep ecosystem relationships. Our strategy is to be the reinvention partner of choice for our clients and to be the most AI-enabled, client-focused, great place to work in the world. Through our Reinvention Services we bring together our capabilities across strategy, consulting, technology, operations, Song and Industry X with our deep industry expertise to create and deliver solutions and services for our clients. Our purpose is to deliver on the promise of technology and human ingenuity, and we measure our success by the 360° value we create for all our stakeholders.

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