



# Wipro's C3 Modernization

Jump-start your hybrid-cloud strategy with a pattern-based approach to containerization, cloud enablement, and cost optimization



## Introduction

Today's enterprises must reimagine their application landscapes to achieve the agility, scalability, and cost optimizations necessary for success. This level of IT modernization requires a consistent, flexible, and scalable platform that can only be achieved by adopting an open hybrid-cloud approach and container-based architectures.

Wipro and Red Hat's cloud-first approach – delivered through Wipro's Containerization, Cloud enablement, and Cost-optimization (C3) model – helps enterprises navigate their critical first steps.

## Wipro's C3 Modernization

Wipro's C3 Modernization is an end-to-end model that empowers enterprises to embrace an open hybrid-cloud approach and adopt container-based microservices for rapid innovation through factory model-based execution for scale.

Powered by Red Hat OpenShift, the leading container platform,<sup>1</sup> C3 Modernization helps optimize costs and increase agility by managing all types of workloads through Red Hat OpenShift. OpenShift offers a consistent hybrid cloud foundation for containerized applications and is available both as a managed service on leading public clouds such as AWS, Azure, Google Cloud, and IBM Cloud and as a self-managed on-premises service.

The C3 model built on Wipro's Cloud Studio, offers pattern-based toolkits to speed up legacy workload migrations and streamline container-based, cloud-native development.

The migration of workloads to the cloud is further optimized through Wipro's Cloud Migration Factory model. This model leverages multiple assembly lines to execute a series of patterns that enable rapid application transformations.

<sup>1</sup><https://www.redhat.com/en/engage/forrester-wave-multicloud-containerplatform-analyst-material>



Wipro's Cloud Migration Factory

# App Estate

Discover and Assess

Plan and Transform

<b>Lift and Shift</b>	<b>Cost Optimization and Tech Uplift</b>	<b>Monolith to Microservices</b>	<b>Cloud-native Development</b>	<b>VM-based Apps</b>
Wipro Application Migration Toolkit	Wipro Microservice Analyzer	Wipro Application Development Toolkit	Red Hat Migration Toolkit for Applications	Red Hat Migration Toolkit for Virtualization

**Wipro's Cloud Studio**

Deploy and Manage

<b>Pipeline as a Code</b>	<b>DevOps</b>	<b>Deployment</b>			
Microservices	Serverless	Apps in VMs	Java Apps		
Monoliths in containers	ISV	AI/ML			
<b>Red Hat JBoss Enterprise Application Platform</b>	<b>QUARKUS</b>	<b>Red Hat Application Services</b>			
<b>Red Hat OpenShift</b>					
Red Hat OpenShift Service on AWS (ROSA)	Azure Red Hat OpenShift (ARO)	Red Hat OpenShift Dedicated	Any public clouds	Edge	Red Hat OpenShift on IBM Cloud

Figure 1: Modernize all applications, methodically and rapidly on a hybrid infrastructure.

The patterns offered as a part of the C3 Modernization model provide several application migration and modernization

transformation paths to accelerate an enterprise's cloud journey.

Pattern	Current State	Pattern Treatment	Target State
<b>01 Lift and shift</b>	On-premises servers	Containerize existing monolithic workloads.	Workloads deployed on OpenShift
<b>02 Cost optimization and tech uplift</b>	On-premises servers with proprietary application servers	Profile apps to remediate technical debt by modernizing application servers.	Workloads deployed on OpenShift, reducing reliance on proprietary systems, and lowering license costs
<b>03 Monolith to microservices</b>	Monolithic applications on on-premises servers	Decompose monoliths to microservices and accelerate microservices development.	Microservices application deployed on OpenShift
<b>04 Cloud-native development</b>	Not applicable	Build new microservices, serverless applications, AI/machine applications, and data services.	New application development on cloud-native principles and deployed on OpenShift
<b>05 VM-based apps</b>	VM-based workloads	Migrate VM apps and services directly to OpenShift and containerize them over time.	Containerized VM workloads deployed on OpenShift

Figure 2: Wipro's C3 Modernization patterns and their treatments.

**Pre-identified patterns and the target blueprints will enable a seamless cloud adoption journey for any application estate.**

## Key benefits

- The average Red Hat OpenShift benefits <sup>2</sup>:

**636%**

ROI over a five-year timeframe with a payback period of 10 months.

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**20%**

higher DevOps and development team productivity.

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**\$21.62**

million in higher annual revenue.

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**22%**

fewer virtual machines required.

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**21%**

more efficient IT infrastructure teams.

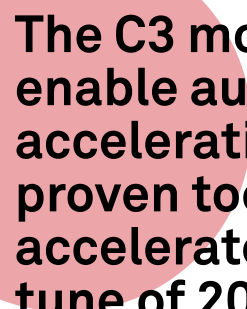
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- Reduced management complexity with a single, consistent platform across clouds.
- Streamlined and automated DevOps practices for all types of applications.
- An optimized infrastructure and increased scalability with centralized provisioning.
- Reduced total cost of ownership through license cost optimization, technical debt remediation, and better cloud resource utilization.

## Jump-start your hybrid-cloud strategy

Wipro's C3 Modernization approaches modernization holistically with identified patterns to address the whole process end to end, enabling a phased approach to suit your business objectives. By approaching a transformation journey using this framework, enterprises will not only reduce their total cost of ownership, but also ensure that their workloads are cloud-ready to meet critical business demands.

Contact [digital.contact@wipro.com](mailto:digital.contact@wipro.com) to request a free discovery session and find out how Wipro and Red Hat can help you get started with your cloud transformation journey.



**The C3 model will enable automation and acceleration through proven toolsets/ accelerators to the tune of 20 to 25% in the overall modernization initiative.**

<sup>2</sup> <https://www.redhat.com/en/resources/The-Business-Value-of-Red-Hat-OpenShift>

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Red Hat is the world's leading provider of enterprise open-source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open-source communities, Red Hat can help organizations prepare for the digital future.





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strong commitment to sustainability and good corporate citizenship, we have over 220,000 dedicated employees serving clients across six continents. Together, we discover ideas and connect the dots to build a better and a bold new future.

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