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,1 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.

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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.

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

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 benefits²:
  - **636%**
    - ROI over a five-year timeframe with a payback period of 10 months.
  - **20%**
    - higher DevOps and development team productivity.
  - **$21.62**
    - million in higher annual revenue.
  - **22%**
    - fewer virtual machines required.
  - **21%**
    - more efficient IT infrastructure teams.

- 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 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.

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For more information, please write to us at info@wipro.com