

Re-imagine applications

With TCS Modernization Propeller and Red Hat OpenShift Container Platform



Benefits

- Improves single pane assessment dock resulting in a one-stop dashboard to help gauge overall complexity
- Enables service discovery that allows for easy lookup of service capabilities
- Delivers blueprint and artifact studio that helps field professionals summarize findings and understand a comparative landscape
- Offers developer jumpstart toolkit that can aid in significantly improving developer productivity

Introduction

Most enterprises are looking for ways to modernize their applications to meet current and future business needs. Deployment of microservices allows organizations to create and manage these applications on an unprecedented scale. But the key to successfully using microservices is understanding how and why enterprises should use this technology to build applications.

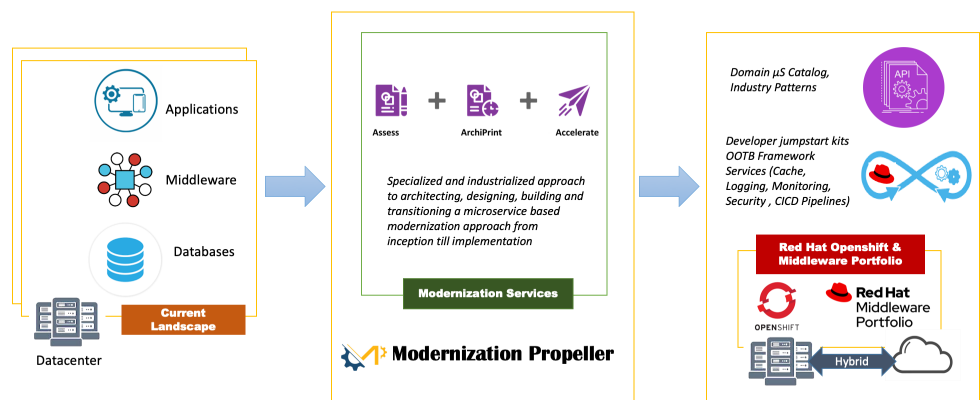
Tata Consultancy Services (TCS) and Red Hat® overcome the problems with modernizing applications using microservices. TCS Modernization Propeller delivers the single pane assessment of the existing code, compares it to an industry-based reference architecture, and produces the time and plan to migrating the code to Red Hat® OpenShift® Container Platform. TCS Modernization Propeller creates a developer jumpstart toolkit for targeted application to standardize and accelerate the development cycle.

Capabilities Overview

Red Hat OpenShift Container Platform and TCS Modernization Propeller gives you the centralized management and visualization tools needed to provide a consistent, unified, and simplified experience. TCS Modernization Propeller addresses the challenges of an enterprise, from inception to implementation, and subsequent adoption of microservices. It a single pane provides assessment dock, decomposition probe, blueprint and artifact studio, along with developer jumpstart toolkit.

Some of the indicative use cases are:

- ▶ Brownfield co-exist microservices model
- ▶ Greenfield implementation with a shared database
- ▶ Brownfield with refactoring on top of service bus
- ▶ Greenfield implementation with a separate database



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Figure 1. TCS Modernization Propeller

Red Hat OpenShift Container Platform brings Linux® containers and Kubernetes to the enterprise. The platform helps organizations develop, build, deploy, and manage new and existing applications across physical, virtual, or public cloud infrastructures. It accelerates application development with automated workflows that make it easy to move from source code to production-ready container images for deployment. Red Hat OpenShift Container Platform is built on open source standards and is a proven, reliable container platform for organizations of any size.

Red Hat Runtimes provides modern platforms to develop and run existing and new cloud native applications—including Spring Boot, Reactive, JavaScript, Java EE, and MicroProfile—in a single ecosystem. Support for OpenJDK, in-memory datastore, and single sign-on completes the system. This combination enables the realization of modern microservices based applications faster.

Conclusion

TCS has a proven industrialized approach architecting, designing, building and transitioning a microservice based modernization approach. Modernization Propeller addresses the challenges of an enterprise from inception to implementation and subsequent adoption of microservices. Together, TCS and Red Hat help thousands of enterprises worldwide build cloud native applications, with the best combination of frameworks and technologies.

Learn more

For more Information on Cloud Migration contact CMA.Enggconsulting@tcs.com or visit www.tcs.com/tcs-enterprise-cloud-platform-migration-services.

For more information on Red Hat OpenShift, visit <https://www.openshift.com>

About Tata Consultancy Services LTD

Tata Consultancy Services is an IT services, consulting and business solutions organization that has been partnering with many of the world’s largest businesses in their transformation journeys for the last 50 years. TCS offers a consulting-led, cognitive powered, integrated portfolio of business, technology and engineering services and solutions. This is delivered through its unique Location Independent Agile delivery model, recognized as a benchmark of excellence in software development. A part of the Tata group, India’s largest multinational business group, TCS has over 450,000 of the world’s best-trained consultants in 46 countries. For more information, www.tcs.com.



About Red Hat

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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