Capgemini | Red Hat

OPEN, AGILE AND CLOUD-NATIVE:

ENSURE A
SUSTAINABLE
FUTURE
WITH
CONTAINERIZATION

Enterprise container platform & application innovation and containerization with
Capgemini and Red Hat

REDUCE THE CARBON FOOTPRINT OF YOUR IT AND OPTIMIZE YOUR COSTS, WHILE ACCELERATING CLOUD-NATIVE INNOVATION AND INCREASING REVENUE

CONTAINERIZATION IS A "FORCE FOR GOOD" IN THE WORLD OF BUSINESS IT

WHAT IS CONTAINERIZATION?

Containerization is a technology that enables software products and applications to be packaged into self-contained components, containers, that are easy to deploy, scale, and update. Containers are used to deliver and run IT and business services.

Against a backdrop of energy price volatility, the growing importance of sustainability, and the ever-present need to deliver new products and services to market faster, containerization is a technology that empowers businesses to address many of today's most important business challenges.

Whether you've just started exploring containerization or are looking to optimize and scale up your use of containers, Capgemini, in partnership with Red Hat®

▶ Reduce the carbon footprint of your IT

Achieve better utilization of your existing infrastructure, minimize waste by autoscaling infrastructure according to demand, and make deployment decisions based on the energy efficiency and renewable energy profiles of data centers and cloud providers.

▶ Optimize your costs

Reduce the costs associated with under-utilized server infrastructure and provision environments and scale infrastructure in line with actual demand.

With containerization implemented optimally on the Red Hat® OpenShift® platform, you'll spend less on maintenance and operations, experience less downtime, and will be able to focus more of your budget on revenue-generating activities.

▶ Accelerate cloud-native delivery and innovation

Build new products and features quickly and effectively, so you can meet customer demands faster, pursue new market opportunities, prove/disprove new ideas, integrate game-changing tech quickly and easily, and contribute to revenue growth.

HOW WE DO CONTAINERIZATION

Capgemini's Containerization Service with Red Hat® helps you to design, deliver, and scale containerization across your organization by providing access to skilled teams, accelerators, and a proven, templated approach … all built on the market-leading Red Hat® OpenShift® platform and with the support of Red Hat.

Designed to address many different use cases and suitable for organizations at any stage of container adoption (from studying feasibility and building business cases, all the way through to

scaling up across the organization and supporting in-house talent building), our service consists of a 4-step plan, 6 independent service blocks, and the Red Hat® OpenShift® container platform.

The service combines Capgemini's experience, capabilities, and assets with Red Hat® OpenShift®, Red Hat® Ansible® and Red Hat® Enterprise Linux® to provide a world-class service that can be used in whole or in part, based on your needs and readiness.

4-STEP PLAN

DAY 0
ASSESS
AND PLAN YOUR
JOURNEY

DAY 1
SET UP YOUR
PEOPLE, PROCESSES,
AND TECHNOLOGY

DAY 2
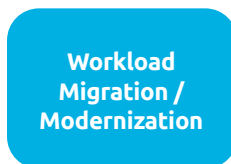DELIVER
AND OPERATE PIONEER
APPLICATIONS

DAY 3(Scaling)
BUILD CAPABILITY &
SCALE CONTAINERIZATION
ACROSS YOUR ORG

6 SERVICE BLOCKS

| Advise & Assess | Red Hat® OpenShift® Engineering & Operations | Workload Migration / Modernization | Cloud Native Build & Operations | Site Reliability Engineering | Talent Builder |

Red Hat OpenShift Container Platform

KEY THEMES AND USE CASES FOR CONTAINERIZATION

▶ Cloud Adoption

Multi-cloud, hybrid cloud, secure cloud, edge computing, digital transformation, cloud native, cloud transformation, data center exploitation, and data center exit.

▶ IT Transformation

Technical debt reduction, FinOps, sustainable IT, and IT modernization.

▶ Business Innovation

Microservices, digital twins, data science/machine learning, DevSecOps, and cloud native.

▶ Intelligent Industry

IoT, data analytics and insight, real-world modelling, rapid integration of products/services, rapid scaling, and much more.

6 SERVICE BLOCKS

FOR YOU TO PLUG INTO BASED ON YOUR NEEDS AND READINESS

Migrate/Modernize
Migrate and modernize workloads using containerization.

Migration/modernization squads or an 'at scale' migration factory equipped with tools and automated DevSecOps CI/CD processes.

Cloud Native Build & Operations
Cloud natively build and operate applications using containerization.

Digital product teams equipped with best practice, security guidance, and example CI/CD pipelines.

Red Hat® OpenShift® Platform
Set up a platform or adopt an existing platform, followed by an optional day-2 operations service.

Platform engineering and operations squads equipped with platform accelerators, template DevSecOps CI/CD processes, and best practice
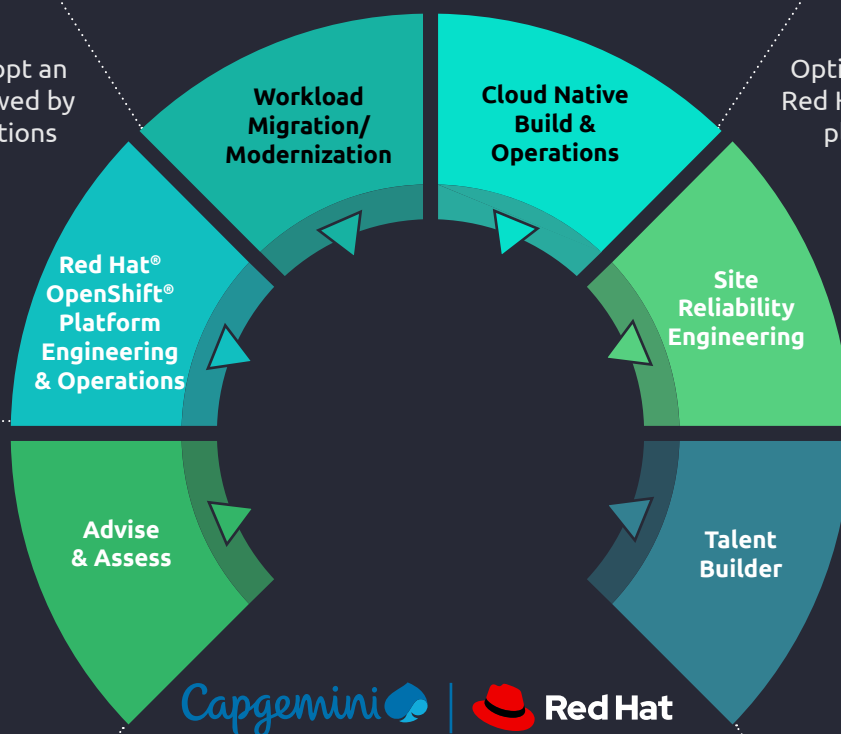
Site Reliability Engineering (SRE)
Optimize the operation of the Red Hat® OpenShift® container platform and containerized applications.

Embedded SRE teams use a data-driven approach to proactively optimize the reliability and performance of the Red Hat® OpenShift® container platform and containerized applications.

Advise and Assess
Advice on how to use containerization to reduce carbon footprint, optimize costs and drive revenue by accelerating cloud-native innovation.

Capgemini and Red Hat experts, combined with assessments and templates from our cloud transformation framework.

Talent Builder
Build skilled teams that can use a container platform to containerize and operate application and product workloads.

Capgemini experts and trainers, in partnership with Red Hat, will help you build skilled resources. This uses a combination of Capgemini and Red Hat led training.

Circular diagram (clockwise)

- Workload Migration/ Modernization
- Cloud Native Build & Operations
- Site Reliability Engineering
- Talent Builder
- Advise & Assess
- Red Hat® OpenShift® Platform Engineering & Operations

Capgemini | **Red Hat**

Wherever you are on your containerization adoption journey, we have a service block that can help you maximize the benefits.

WHY CHOOSE RED HAT OPENSHIFT AS YOUR CONTAINER PLATFORM?

Red Hat® OpenShift® is a pre-integrated container platform designed to make building and operating containers easy. Built on Kubernetes with an extensive range of pre-integrated DevSecOps tooling and CI/CD pipelines, Red Hat® OpenShift® provides a common developer and operations experience across public and private cloud, as well as access to a catalog of fully supported open-source and propriety software.

Red Hat® OpenShift® Features & Extensions

MANAGE WORKLOADS Platform services	CLOUD-NATIVE APPS Application services	DATA-DRIVEN INSIGHTS Data services	PRODUCTIVITY Developer services
■ DevSecOps tooling ■ Service mesh ■ Serverless builds ■ CI/CD pipelines ■ Container image repo ■ Cost management	■ Language & runtimes ■ API management ■ Integration ■ Events & messaging ■ Process automation	■ Databases ■ Cache ■ Data ingest & prep ■ Data analytics, AI/ML ■ Data management & resilience	■ Developer CLI, IDE ■ Plug-ins & extensions ■ CodeReady workspaces ■ CodeReady containers

Red Hat® OpenShift® Kubernetes Engine

Multi-cluster Management
Observability/Discovery, Policy, Compliance, Configuration, Workloads

Advanced Cluster Security
Declarative security, Vulnerability management, Network segmentation, Threat detection & response

Kubernetes cluster services
Automated ops, Over-the-air updates, Monitoring, Logging, Registry, Networking, Router, Virtualization, OLM, Helm

Kubernetes (orchestration)

Linux (container host OS)

Amazon Red Hat® OpenShift® ROSA	Azure Red Hat® OpenShift® ARO	Red Hat® OpenShift® on IBM Cloud ROKS	Red Hat® OpenShift® Dedicated OSD	Red Hat® OpenShift® Container Platform OCP

Cloud Provider Managed   Red Hat Managed   Customer Managed

WHY CHOOSE CAPGEMINI FOR CONTAINERIZATION?

We are experts in the migration, modernization, and cloud-native build of services using the Red Hat® OpenShift® container platform and supporting software. We can also help you upskill and take ownership of your IT landscape.

▶ Experts, skilled teams, processes, and assets

We have teams of experts that leverage our processes and assets, where appropriate, to accelerate delivery.

▶ Culture transformation & talent building

We come with extensive experience of transforming the culture of an organization and reskilling and building a supportive network of talent. We have established Customer Academies worldwide using our world-class Capgemini University.

▶ Scale and complexity

The sheer volume of experience gained from a multitude of cloud transformations, migrations, and consolidations has exposed us to the majority of risks and potential challenges. This helps us help you to learn from collective mistakes and successes.

▶ Sustainability

Capgemini's approach to sustainability empowers your team to move towards sustainable IT. We can help you measure your environmental impact and CO_2e emissions. We will identify apps/infrastructure rationalization opportunities and calculate their predictive impact in terms of CO_2e emissions reduction, and help create a business case.

Sustainability is a cause that is close to our heart. We have committed to becoming a net-zero company and to being carbon neutral by 2025. Furthermore, we're supporting our clients in saving 10 million tons of CO_2 emissions by 2030.

▶ Experience at every stage of the journey

We have extensive experience at every stage of the containerization-adoption journey, from advisory and business-case creation, through to design, build and run.

▶ Collaboration is in our DNA

We pride ourselves on our values of collaboration and enablement. We will help you in-source and take control of your IT.

▶ Global partnerships

Our global partnership network is extensive. We have partnerships with all hyperscalers and many leading software vendors.

▶ IT modernization specialists

We are skilled at helping IT departments become enablers to the business. We use Product-based delivery, Agile at Scale, DevSecOps, and Site Reliability Engineering as mainstays of IT Transformation.

START REALIZING THE BENEFITS OF CONTAINERIZATION

**Reduce
the carbon footprint
of your IT**

Optimize your costs

**Accelerate
cloud-native delivery
and innovation**

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About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of 325,000 team members in more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fuelled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2021 global revenues of €18 billion.

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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 develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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