Managed Container Stack

Our BSI:C5 and SOC 2® compliant managed service based on RedHat OpenShift runs on any private or public cloud platform

In cooperation with Red Hat OpenShift

Container orchestration platforms based on Kubernetes have become the standard tool for managing applications. They provide declarative controls for the deployment of applications and an abstraction of underlying, VM-based infrastructure. Their setup, maintenance, and configuration require a broad range of skills. As soon as critical applications must be deployed and high-availability or scalability are necessary, a dedicated platform team is required to ensure the setup can cope with increasing demands.

T-Systems Managed Container Stack (MCS) provides an all-in-one solution based on the OpenShift Container Platform (OCP) for this scenario. MCS allows our customers to focus on their core business, effectively supporting the development of cloud-native applications - without having to build up a team handling IaaS-integration, secure configuration, and maintenance.

Service Scope - Summary

Our Managed PaaS environment(s) based on the OpenShift Container Platform offer a range of included services such as monitoring, logging, authentication, and backup. These environments have been hardened according to T-Systems security standards to ensure the highest level of security. The IaaS setup can be also expertly managed by T-Systems professionals, ensuring a frictionless and efficient deployment. The platform includes cluster resource management and autoscaling capabilities, along with the necessary subscriptions that are included in the service.

In terms of maintenance, our support staff works proactively to reduce downtime through monitoring and preventative remediation actions. With on-demand consumption models, your teams can focus on innovation and strategic projects without worrying about the underlying infrastructure.

Business Challenges and Provided Value

Challenge	Solution / Value from MCS OCP
Delivering a platform for critical business applications, growing with demand	Pre-configured, integrated and tested platform to satisfy enterprise security standards
Maintaining flexibility in technologies and infrastructure	Provides a common abstraction layer across any infrastructure and flexibility in hybrid environments
Maintaining operations with firefighting and reactive maintenance	Managed by a highly skilled team that is continuously improving by automation and can scale with your demand.

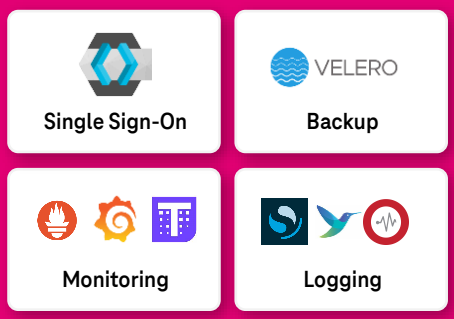
Red Hat OpenShift Container Platform

At the core of MCS OCP is Red Hat's Kubernetes distribution: the OpenShift Container Platform built on open-source innovation and industry standards. OpenShift comes with additional features over the “vanilla” Kubernetes, providing added value and improving security. It allows you to efficiently build, deploy, and manage containerized applications on a comprehensive Kubernetes platform. Teams can accelerate development and improve efficiency with integrated tooling from build through deployment.

MCS Technology Stack

MCS based on OpenShift comes with several open-source components from the Cloud Native Computing Foundation landscape.

- **Single Sign-On**, using Keycloak, offers user federation, strong authentication, user management, fine-grained authorization, and more.
- The MCS **monitoring** stack is based on Prometheus, Grafana and Thanos. It is highly available with pre-configured dashboards to understand relevant data produced by the cluster and application services.
- MCS **backup** relies on Velero to protect against data loss and ensure the availability of critical applications by enabling Cluster users to back up Kubernetes cluster resources and persistent volumes. It can be used for disaster recovery, migrations, and rollbacks.
- MCS **logging** for centralized log management is based on Opensearch, Fluentd and Graylog to collect, enhance, store, and analyze data. It is a powerful tool to identify trends, detect issues, and optimize the performance of systems and applications.



Managed Container Stack OpenShift

When to use?	Customers who want to focus on application development rather than Kubernetes Platform Operations. Enterprise Scenarios that require SOC 2®/C5 compliance or possibilities to scale with customer demand
What is included?	• Multi-Cloud support based on an up-to-date version of RedHat OpenShift • MCS Technology Stack with preconfigured tooling for Single Sign-On, Monitoring, Logging, Backup & Restore and Vulnerability Scanning • Security-approved components and cloud architectures - tested according to T-Systems' stringent standards • Integration with Ceph-based Storage Management
What support is provided?	Managed Service (SLA 99,9%) with 24x7 support or Office Time Support
How much does it cost?	Pay-as-you-go pricing model that scales according to the actual workload. Please contact us to receive an offer based on your requirements.

Information & Conditions

- This offer is only valid for business customers of T-Systems International GmbH
- All prices are exclusive of VAT and any travel expenses and will be charged as applicable
- This document is for information purposes only and does not constitute a binding offer. If you are interested, we will be happy to send you the relevant contract documents. These also list the exact contents of the service and the specific conditions

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