



The secure, optimal integration of Kubernetes and other specialist tools into their existing IT environment requires experience and expertise that many companies simply do not have. As your experienced partner, we can provide the help you need, leaving you to focus on your core business.

Kubernetes (K8s) is the new industry standard. However, as well as all its benefits, it brings new challenges because setting it up is not the end of the story: the new Kubernetes-based solutions need to be integrated into your existing IT, while handling workloads efficiently and securely also brings new demands. Swisscom can help you with this.

Kubernetes Cluster Management

Whether it's connectivity, security, IAM, cluster sizing, persistence requirements, secrets management, continuous deployment, logging or monitoring: creating clusters and managing workloads require expertise and practical experience that very few companies can call on in-house. With many years' experience of operating containerised workloads "at scale", we can offer you expert assistance.

Depending on your requirements, we can design your individual architecture and put it in the cloud of your choice.

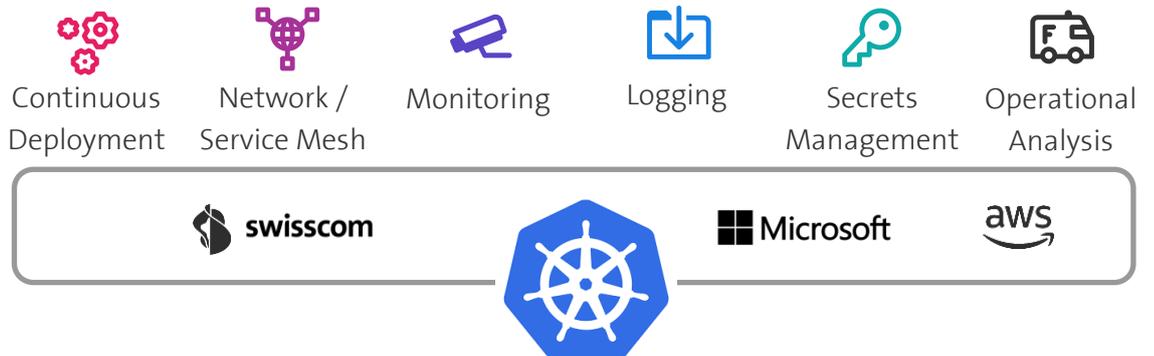
We can create and operate the cluster and the associated tools so you can concentrate on your applications.

With the Kubernetes Cluster Management service, we provide end-to-end operation and automated provision of a toolchain, including the associated concepts that are required to manage Kubernetes and workloads.

Your benefits with Kubernetes Cluster Management

- **Optimal, secure integration**
Correct use of cloud resources and integration of the Kubernetes environment into your existing IT landscape is guaranteed.
- **Wealth of experience and expertise**
Rather than having to build up internal expertise in the various tools and processes, you can benefit from Swisscom's wide-ranging experience.
- **Focus on core business**
While you concentrate on business innovation and the associated application development, Swisscom will look after everything else.

The solution at a glance





Facts & Figures

 Basic services	Cluster Management <ul style="list-style-type: none">- Creation and configuration of the Kubernetes cluster in the cloud of your choice (Enterprise Service Cloud, Amazon Web Services, Microsoft Azure)- Seamless component interaction and operation- Lifecycle of the cluster and additional components
	Workload Management <ul style="list-style-type: none">- Provision and integration of the standard toolset- BYOL (Bring-Your-Own-Licence)- Monitoring, maintenance and troubleshooting
 Optional services	Multi Cloud <p>You can access the service on the cloud of your choice.</p> <ul style="list-style-type: none">- Swisscom Enterprise Service Cloud - Container Service with Kubernetes- Microsoft Azure - Azure Kubernetes Service (AKS)- Amazon Web Services (AWS) - Elastic Kubernetes Service (EKS)
	Toolchain Adaptation <p>Individual toolchain components can be exchanged and adapted as you wish.</p>
	Application Onboarding and Operation <p>Swisscom can help with application onboarding and operation if required.</p>
 Toolchain	Continuous Deployment <p>Automated and standardised deployment for customer-specific applications within the Kubernetes cluster.</p>
	Network / Security / Service Mesh <p>Management of Kubernetes cluster in- and outbound traffic, as well as orchestration of cluster-internal communication.</p>
	Logging <p>Collection and aggregation of logging information.</p>
	Monitoring <p>Monitoring and alarm service for the workload operated in the Kubernetes cluster.</p>
	Secrets <p>Secrets management (e.g. passwords, passphrases, etc.)</p>
	Operational Analysis <p>Collection of detailed information about a specific process required to resolve operational problems.</p>
 Additional services	Software Tools as a Service <p>The software toolchain developed by Swisscom includes tools that cover the entire CI/CD process – from the repository to collaboration to security checks.</p>
	Application Integration and Modernisation <p>Swisscom has a wealth of experience as well as standard methods for designing and efficiently implementing application integration and modernisation projects.</p>
	Application Operation and Application Management <p>Swisscom can take responsibility for all operational tasks with either a basic application operation service or, in agreement with the customer, full application management.</p>