



## CLOUD NATIVE MODERNIZATION OF ENTERPRISE APPLICATIONS

### Motivation

The demand for short development cycles, massive scalability, and increased reliability is driving the cloud native revolution. This offering will introduce your organization to containers and Kubernetes by setting up a cloud native application environment and migrating one of your existing applications to facilitate your modernization efforts.

### What We Bring

20 years of experience with software architecture and custom software development projects for many of the world's largest enterprises has generated the expertise needed for PRODYNA to help you modernize and migrate applications to a cloud native environment. We are a Kubernetes Certified Service Provider as well as Kubernetes Training Partner with recognized credentials from the Cloud Native Computing Foundation (CNCF). We provide you with unbiased consulting under consideration of your companies individual situation combined with an open and cloud agnostic technology stack. You will profit from our expertise whether your company is moving to a public cloud provider (e.g. Azure, AWS, GoogleCloud, Swisscom, etc.) or you run your own data center. We will bring you our reference architecture and development process to assist you with creating:

- A fully configured and functioning Kubernetes cluster (e.g. AKS, EKS, GKE, PKS, OpenShift, Rancher, etc.)
- A fully deployed app on the cluster
- A configured CI/CD pipeline for fast and repeatable deployments
- Your company specific cloud native development environment

### What You Need

To make best use of this offer and permit a fast and efficient start, you will need:

- Cloud provider account or available resources in your data center
- The source code for the applications
- An open minded cross-functional team



### Duration

15-20 person days (+5 days if on-premises deployment)



### Benefits

- **Faster time to market** due to a highly automated delivery pipelines
- **Increased agility** through a continuous delivery model
- **Increased scalability** with dynamic sizing and cluster scaling
- **Increased reliability** with self-healing and multi-cluster options
- **Decreased CapEx** if moving to a cloud-based service model



### Pricing

EUR 1200/day

What You Get		
Step	Actions	Deliverables
01 Kickoff	<ul style="list-style-type: none"> <li>➤ Stakeholder management</li> <li>➤ Introduction to cloud native design principles and key technologies</li> <li>➤ Review of the existing application (e.g. architecture, components, dependencies)</li> <li>➤ Design of the high-level target architecture</li> <li>➤ Definition of tasks and responsibilities</li> </ul>	<ul style="list-style-type: none"> <li>➤ Target application and infrastructure design</li> <li>➤ Task backlog</li> </ul>
02 Target Platform	<ul style="list-style-type: none"> <li>➤ Evaluation of a suitable Kubernetes container platform for your target infrastructure (e.g. AKS, EKS, GKE, PKS, OpenShift, Rancher, etc.)</li> <li>➤ Deployment of the selected Kubernetes</li> <li>➤ Integrate target platform into legacy infrastructure (e.g. VPN, data replication, etc.)</li> <li>➤ Establish authentication and authorization on the platform</li> <li>➤ Enable basic monitoring and logging</li> </ul>	<ul style="list-style-type: none"> <li>➤ Target environment ready for running the application</li> </ul>
03 App Containerization	<ul style="list-style-type: none"> <li>➤ Detailed analysis of application regarding cloud-readiness</li> <li>➤ Adapt application if required</li> <li>➤ Setup private image registry</li> <li>➤ Enable containerized development</li> <li>➤ Enhance application build process to package application into container images</li> </ul>	<ul style="list-style-type: none"> <li>Container images for application</li> <li>➤ Private image registry</li> <li>➤ Cloud native ready developer workspace</li> </ul>
04 App Deployment	<ul style="list-style-type: none"> <li>➤ Create maintainable application deployment configurations for Kubernetes using state of the art tooling (e.g. Helm, Kustomize)</li> <li>➤ Setup CI/CD pipeline to deploy application on target platform</li> </ul>	<ul style="list-style-type: none"> <li>➤ Application running on target platform</li> <li>➤ CI/CD pipeline for quickly rolling out changes</li> </ul>
05 Operational transparency	<ul style="list-style-type: none"> <li>➤ Establish visibility into infrastructure and application by collecting metrics and logging data</li> </ul>	<ul style="list-style-type: none"> <li>➤ Centralized monitoring dashboards</li> <li>➤ Centralized log analytics</li> <li>➤ Alert management</li> </ul>

### About PRODYNA

PRODYNA is an innovative IT consultancy specializing in the creation of custom software solutions and serving the needs of corporate enterprises across the European continent. PRODYNA is a Kubernetes Certified Service Provider, Kubernetes Training Partner, and a member of the Cloud Native Computing Foundation.