CREATION OF AN ENTERPRISE JAVA MVP APPLICATION USING EKS

Motivation

The need for a short time to market, low risk, massive scalability, and increased reliability is driving the cloud native revolution. A Minimal Viable Product (MVP) is the smallest possible functional version of a future product or service. A MVP is used to test the viability of a business idea or technology. With this o¬ffering, we will turn your idea into a fully functional MVP running in the AWS Cloud.

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 the AWS Cloud. We are a Kubernetes Certified Service Provider with recognized credentials from the Cloud Native Computing Foundation (CNCF). Our practical experience and daily use of agile methodology, DevOps and cloud native paradigms in multiple parallel customer development projects helps us to efficiently apply our know-how and agility to your application. We will assist you with creating:

- Your MVP built as a containerized application
- A fully configured and functioning Kubernetes cluster
- Your MVP deployed on the cluster
- A configured CI/CD pipeline for fast and repeatable deployments
- A cloud native development environment for further development of the app

What You Need

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

- A business idea for the MVP

Duration

25-75 person days (depending on app requirements and complexity)

Benefits

- **Faster time to market** with a pay-as-you-use model
- **Decreased risk** through a low initial invest and subscription based infrastructure
- **Increased agility** through a continuous delivery model
- **Increased scalability** with dynamic sizing and cluster scaling
- **Increased reliability** with self-healing and multi-cluster options
- **A complete solution** including the entire developmental environment

Pricing

EUR 1200/day

What You Get

Step	Actions	Deliverables
01 Kickoff	› Stakeholder management › Introduction to cloud native design principles and key technologies › Review of the MVP requirements › Design of the high-level target architecture › Definition of tasks and responsibilities	› Target application and infrastructure design › Task backlog
02 Target Platform	› Deployment of Amazon Elastic Kubernetes Service (EKS) according to infrastructure-as-code best practices using Terraform › Establish automated GitOps process for reviewing and rolling out infrastructure changes › Connect EKS to Amazon IAM or AWS Directory Service for authentication and authorization › Enable basic monitoring and logging	› Target environment ready for running the application
03 App Development	› Develop MVP application code › Setup private image registry › Create build process to package application into container images	› Container images for application › Private image registry › Cloud native ready developer workspace
04 App Deployment	› Create maintainable application deployment configurations for Kubernetes using state of the art tooling (e.g. Helm, Kustomize) › Setup CI/CD pipeline to deploy application on target platform	› Application running on target platform › CI/CD pipeline for quickly rolling out changes
05 Operational transparency	› Establish visibility into infrastructure and application by collecting metrics and logging data	› Centralized monitoring dashboards › Centralized log analytics › Alert management

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 Microsoft Gold Partner, a Kubernetes Certified Service Provider, a Certified Kubernetes Training Partner, and a member of the Cloud Native Computing Foundation.