

OFFERING PRESENTATION P3.

Cloud Native Architecture Readiness.

BUSINESS AS UNUSUAL

SINCE 1996 – BREAKING NEW GROUND WITH VERSATILE COMPETENCIES IS OUR STRENGTH.

24
YEARS OF
EXPERIENCE

1.000
EMPLOYEES

18
LOCATIONS

10
SUBSIDIARY
COMPANIES



GERMANY
FRANCE
ROMANIA
SERBIA
USA
MEXICO
CHINA

NEW APPROACHES AND CREATIVE PEOPLE

Modern IT Solutions need new approaches and creative People. Grown out of engineers, we as P3 always have an eye on the technological possibilities and can design and implement optimal solutions.

MORE THAN 20 YEARS OF EXPERIENCE AS SW DEVELOPER

Since 2009 P3 has developed more than 300 digital software solutions with a customer-oriented approach and state-of-the-art quality.

EXPERTS IN VARIOUS FIELDS

We have more than 200 Software Experts distributed over different technologies and frameworks and 140 certified agile Project Managers (SCRUM, SAFE, LeSS, ...).

WE TACKLE AND SEE OURSELVES AS PARTNERS

We build innovative, future-oriented complete packages for our customers & partners and solve them together, never losing sight of the E2E idea.

RELIABLE QUALITY

We have a proven project quality, which is guaranteed by on-site support and a test-driven development process with a focus on automated testing.

MICROSOFT PARTNERSHIP

We have been a **Microsoft Gold Partner** since April 2019 and continue to expand our Azure projects.



Gold
Microsoft Partner

Microsoft
Managed Partner

- Data Analytics
- Project and Portfolio Management
- Security
- Application Integration
- Cloud Business Applications
- Cloud Productivity
- Application Development
- DevOps
- Cloud Platform
- Datacenter
- Communications
- Data Platform
- Enterprise Mobility Management

We think that modern software departments should focus on:



Business Innovation

- Application release life cycle
- Capability of the organization
- Innovation workshops and market analyses
- Collect and implement new ideas
- IT empowers the business



APIs

- Expose services as light-weight APIs for easier integration
- Selectively expose data and services to employees, partners, and customers by applying authentication, authorization, and usage limits.



Containers

- Standard deployment format to abstract code from underlying infrastructure differences
- Deploy microservices easily and quickly



Inner Source & Agilität

- Shared code, artifacts and wikis
- Use of Office 365
- Communication via MS Teams and Azure DevOps



Microservices

- Architectural approach to deploy an application as a collection of modular, loosely coupled services
- DevOps team can quickly make a change to one or more microservices



DevSecOps & Data

- Integrating security practices within the DevOps process
- Automated secure checks of deployed software increments
- Verify infrastructure security compliance

AZURE EXPERTISE

We have been a Microsoft partner for many years and implement various projects in Azure in the corporate environment.

Code Analysis & Cloud Migration

We conduct code reviews for improvement potentials. Cloud Migration with app modernization approach (e.g. serverless).

Cloud Native Solutions

Examination of software for the applicability of Cloud Native Solutions. Creation of concepts and implementation recommendations.

DevOps & DevSecOps

Setup of CI/CD pipelines which allow security tests with each deployment. This guarantees a high standard of cyber security and fast deployments.

Data Analytics & AI

Usage of cloud native cognitive services & ML. Development and implementation of AI models and analysis of data from different data sources.



Power Platform & Dynamics

Design and implementation of PowerBI reports, development of PowerApps, implementation of Dynamics products.

Software Development & Integration

Development of custom software in Azure and integration in the existing infrastructure setups (SAP. E.g.)

Software Project Management

We accompany our clients throughout the whole development lifecycle and consult on the latest usable technology and best practices.

Agile Enablement

Usage and enablement of Azure DevOps. Implementation of projects using agile project management methodologies.

CHALLENGE WE SEE

More and more companies migrate to a cloud and implement their architectures 1:1.



- No possible optimization with 1:1 Migration
- Ineffective Reliability and Scalability (out-in/up-down) for larger amount of users
- More IT Competence requirements for same results
- Ineffective Business Continuity



- High ongoing monthly costs
- Time consuming underlying infrastructure and applications management
- Time and cost consuming deployment, iteration and redeployment



Cloud Native Readiness

Our approach provides fast insight in optimization possibilities regarding the usage of cloud native solutions. The main benefits of Cloud Native Solutions are: faster delivery, simple operation, secure scaling. We offer:

- + Code optimization through **Infrastructure as Code**. Enables focus on innovation and digital products instead of maintenance
- + Improved project management and tracking (e.g., source control) with **Azure DevOps**
- + Utilization of **Azure Kubernetes Services (AKS)** to increase efficiency by automatization (CI/CD, Security, Governance)
- + Out-of-the-box AI solutions with **Azure's AI capabilities**

OUR APPROACH TO CLOUD NATIVE SOLUTION

Cloud Native Readiness in 4 Steps.

1

ANALYSIS

- Analysis of Current Set Up
- Interviews and Workshops
- Evaluation of user's needs and expectations
- Identification of Gaps and Workarounds
- Collection of known Issues from customer's operational knowledge
- Investigation and Assessment of identified Issues

2

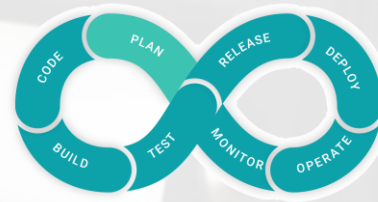
CONCEPT

- Proposal for Infrastructure and Software Architecture
- In-depth Analysis in cooperation with the stakeholders on Limitations, Budget, ...
- Review Governance and Security Requirements
- Clarifying the Goal of the Application Functionality
- Approved Concept for Implementation

3

IMPLEMENTATION

- Set-up of Infrastructure as Code (IaC)
- Automatization of development activities
- Software Development
- Integration of all resources and methods



4

HANDOVER

- Delivering Documentation/Operational Manual and Trainings on application
- Maintenance (Azure DevOps/Azure Platform)
- Rollout and Change Management Support
- Optional: Project Continuation Taking Over the Operation

PROJEKT REFERENCE: IOT SUITE

Digital Shopfloor Management Solution

BACKGROUND

- 1:1 Migration on-premise to cloud without optimization
- VM based applications are slow and costly
- Adding new customers access to web App is time and cost consuming

ACTIVITIES

- Code Analysis
- Deploy Kubernetes Cluster in Azure subscription using Azure Kubernetes Services (AKS) with Azure resource management templates
- Configure cluster to support monitoring security, logging, and storage best practices
- Configure azure governance and security templates
- Containerize chosen application
- Migrate data into container to perform initial deployment to the new AKS cluster
- Cost optimization
- Use of Azure DevOps CI/CD pipelines

RESULTS

- ✓ Fully configured Kubernetes cluster in azure account
- ✓ Pilot app deployed and running in the cluster
- ✓ Capability to containerize and deploy additional apps
- ✓ Pipeline to build and deploy containerized apps
- ✓ Green Code
- ✓ Efficient scalability / Higher Reliability
- ✓ Digitized recording of errors and alerts
- ✓ Active notifications
- ✓ Easy integration of new software increments

PROJECT SUMMARY



24 Months



Germany



6 Consultants
30 Developer



Automotive
Industry



Code Analysis



Performance
Monitoring



Project
Management



Active Directory
Connection



Multi-platform
solution



Green Code

AUTOMOTIVE CERTIFICATION TOOL

Workflow and collaboration tool to support certification processes

BACKGROUND

- Web-application to steer certification process of an automotive OEM
- Application is run on premise and is implemented in a monolithic architecture

ACTIVITIES

- Code Analysis
- Breakdown of monolithic functions into microservices argued (Comapraision)
- Redesign of the software architecture and underlying infrastructure
- Creation of a new CI/CD toolchain
- Deploy Kubernetes Cluster in Azure using Azure Kubernetes Services (AKS) with ARM/Terraform/Helm templates
- Configure azure governance and security best practices
- Cost optimization

RESULTS

- ✓ Efficient scalability / Higher Reliability
- ✓ Pilot app deployed and running in the cluster
- ✓ Integrated cluster into Azure AD for Role-based authentication and authorization
- ✓ Measured Software Quality Improvement
- ✓ Efficient changes on application
- ✓ Vendor independent application
- ✓ Credentials management with Azure key Vault

PROJECT SUMMARY

 24 Months	 Germany
 6 Consultants 30 Developer	 Automotive Industry
 Code Analysis	 Performance Monitoring
 Project Management	 Active Directory Connection
 Multi-platform solution	 Green Code
 Research	

JOINT VALUE

With the technology stack provided by Microsoft, we help our customers pave the way into the digital future, introduce agile project management methods, and build their cloud infrastructure with Azure DevOps as a one-stop shop.



We have **16**
DevOps Engineers

We have **more than 50**
consultants with practical
experience in Azure
DevOps.

We have **more than 200**
software developers

We have carried out **300**
software projects.

We accompany our
customers from the idea
to the final solution,
end-to-end, based on
Microsoft technology.



We have been a **Microsoft**
Gold Partner since April
2019 and continue to
expand our projects in
Microsoft Azure.

Through our **Managed**
Partnership we work
closely with the **Microsoft**
teams.

