

# Linux Polska Sp. z o.o. – company profile

Leader of the open source technology in Central and Eastern Europe



# about Linux Polska



since 2009

leading Open Source competency center in the CEE region



> 600 certificates

in leading technologies



> 1,5 mln h

of provided services



>1000

satisfied clients from EMEA region and USA

Leader of Open Source Technology, Data Science, Digital Transformation, Cloud and AI in practice.

Digital transformation

AI in practice

DevOps and CI/CD

Containerization

Cloud transformation

Observability and IT monitoring

Information security

Data and analytics

Databases, data warehouses

Data engineering

Application integration

Application lifecycle management

Maintenance IT environments

Automation

Professional service center (several hundred supported technologies)

Supporting clients in overcoming technological barriers and IT transformation

Designing and developing Open Source solutions tailored to clients' individual needs

Knowledge transfer to client teams, training, workshops

Innovation, enhancing our own competencies

Maximizing the potential of Open Source

Active participation in the Open Source community

Consulting, implementation, engineering support

# Linux Polska - service portfolio DO POPRAWY

We have a comprehensive range of competencies in IT designing and implementing IT solutions, systems, products, and services.

AREAS	STRATEGY AND ANALYSIS		PLANNING AND DESIGNING		TRANSFORMATION AND IMPLEMENTATION		DEVELOPMENT AND MAINTENANCE	
TRANSFORMATION AND ARCHITECTURE	Change and Value Management	Technology Strategy	Architecture Modeling	Risk Management	Measurement and Analysis of IT Value	Value Delivery	Business Hypothesis Testing	Enhancing Technological Competence and Awareness
DEVOPS	DevOps Strategy	Organizational Transformation	Managing Source Code	Modernization of the solution delivery pipeline	Up-to-Date Solution Design and Modeling Techniques		Observability	Continuous Delivery
CONTAINERIZATION	Containerization Strategy	Up-to-Date Data Storage Techniques	Architecture of Container Environments		Implementation of Solutions	Container Security	Optimization and Development	
DATA ASSET MANAGEMENT (DAM)	Data Modeling Strategy	Data Architecture	Machine Learning	Big Data and Data Science	Standardization of Environments		Data Resource Management	
OBSERVATION AND IT MONITORING	IT Observability and Monitoring Strategy		Integration of Environments	Central Telemetry Data Repository	Implementation of IT Observation and Monitoring	Visualization and Dashboards	Environment State Monitoring	
CLOUD	Cloud Design Principles		Migration and Security Strategy	Licensing	Cloud Service Optimization		Quality and Operational Control	
IT INFRASTRUCTURE	Infrastructure Strategy		Infrastructure Architecture and Optimization Plan		Identity and Access Management (IAM)	Infrastructure Management	Software Lifecycle Management	
APPLICATION INTEGRATION	Service and Integration Environments Strategy	Service Inventory	Service-Oriented Architecture (SOA) and Microservices Architecture Patterns		Delivery of Service Environments and Application Integration		Monitoring and Improvement of Application Services	
INFORMATION SECURITY	Information Security Principles	SOC	Information Security Process Patterns		Correlative Rules and Alerts	Visualization and Dashboards	Security Vulnerability Control	



AREAS	TECHNOLOGIES
AUTOMATION	Ansible   Terraform   Suse Manager   Puppet   Helm   Satellite   VMware Tanzu   OpenStack (heat templates)   Azure (Azure Resource Manager)   AWS (CloudFormation)   GCP (Google Cloud Deployment Manager)
DEVOPS	Bitbucket   Bamboo   Jenkins   GitLab   Tekton   AWS Cloud Development Kit   Azure DevOps   ArgoCD   Harbor   Artifactory   SonarQube   Codacy   Dockerfile   Kaniko   Kustomize   Helm   Podman   ChatOps (MS Teams)
AI/LLM	
CONTAINERIZATION	OpenShift/OKD (vsphere, baremetal, ovirt/rhv, openstack)   rke2/rke/k3s   Rancher   VMware Tanzu   EKS Anywhere (vmware)
DATA ENGINEERING	PostgreSQL   MariaDB   Oracle   GreenPlum   TerraData   Hadoop   CDH (Cloudera Data Hub)   Apache Spark   Apache Kafka   Apache AirFlow   SQL, NoSQL
OBSERVABILITY AND IT MONITORING	Platforms: ElasticStack   Zabbix   Centry (APM)   SplunkEnterprise   SplunkITSI   SplunkObservabilityCloud; Telemetry: Telegraf   Prometheus (Thanos)   InfluxDB; Dashboards: Kibana   Grafana   Splunk
CLOUD	AWS   GCP   Azure   private cloud   CloudSQL/ Postgres
IT INFRASTRUCTURE	Red Hat Enterprise Linux   Ubuntu   Debian   CentOS   Red Hat SSO   KeyCloak   Apereo CAS   Red Hat IM (IPA)   Satellite   SUSE Manager   JBoss EAP   Apache Tomcat
APPLICATION INTEGRATION	Platforms: FuseESB   Apache ServiceMix   WS02; ETL: talend   informatica   pentaho   Apache Druid; Brokers: Apache Kafka   RabbitMQ   ActiveMQ; Components: Apache AirFlow   Apache Camel   Apache NiFi
INFORMATION SECURITY	SplunkEnterprise Security   Infosec   supporting functions (SSO, KeyCloak, ApereoCAS, Microsoft, Red HatIM (IPA), Satellite (software update management))

### SOFTWARE DEVELOPMENT

Python, Bash, Java, C #, JavaScript, React, Angular, HTML, CSS

Our engineering team at Linux Polska is comprised of highly skilled professionals dedicated to delivering innovative solutions tailored to our clients' needs. With expertise in a wide range of technologies, including Kubernetes, OpenShift, Ansible, cloud platforms and Docker, our team excels in architecting, implementing, and maintaining the cutting-edge IT infrastructures. Leveraging advanced tools and methodologies, such as CI/CD pipelines and DevOps practices, we provide efficient development workflows and seamless deployment processes. Committed to excellence, our engineers continuously update their knowledge of the latest industry trends and best practices, ensuring the optimal outcomes of our clients' projects.

## Key skills

- proficiency in containerization platform tools (i.e. Rancher, OKD, Openshift, Vsphere, Openstack)
- knowledge of public cloud platform (GCP, Azure, AWS)
- competence in automation (Terraform, Ansible Tower, Helm, Satellite, Openstack)
- competence in infrastructure (Microsoft Active Directory, IDM/IPA, Satellite, Virtualization (RHEV), Ceph, Vmware)
- proficiency in programming languages: Java, Python, Transcript, Perl, C++, PHP, Bash, Pascal, Javascript, Spring Boot, Hibernate, Javafx/Swing, SQL, XML/JSON
- proficiency in developer tools such as Bitbucket, Gitlab, Argocd, Harbor, Artifactory, Dockerfile, Kaniko, Helm, Kustomize, Podman
- very good knowledge of application platforms Jboss, Tomcat
- knowledge of relational database management system (RDBMS): PostgreSQL, Oracle
- knowledge of distributed database management systems Greenplum along with tools (Gptext, Gpcopy), Spark
- knowledge of the Hadoop ecosystem and very good understanding of ETL/ELT processes
- hands-on experience in data warehousing, data lake and Big Data
- practical knowledge of server integration issues based on ESB data bus (JAVA, OS GI), Apache Camel
- knowledge of authentication and authorization topics based on the OAUTH2 and OpenID protocol (Red Hat SSO, Keycloak)
- knowledge of distributed systems (clustering, load balancing)
- confirmed ability to implement and design enterprise architecture management processes
- knowledge of TOGAF, including practical application of the ADM technique
- practical experience in implementing other architectural frameworks DODAF, MODAF
- practical experience in implementing the service-oriented architecture paradigm (SOA)

## Selected certificates

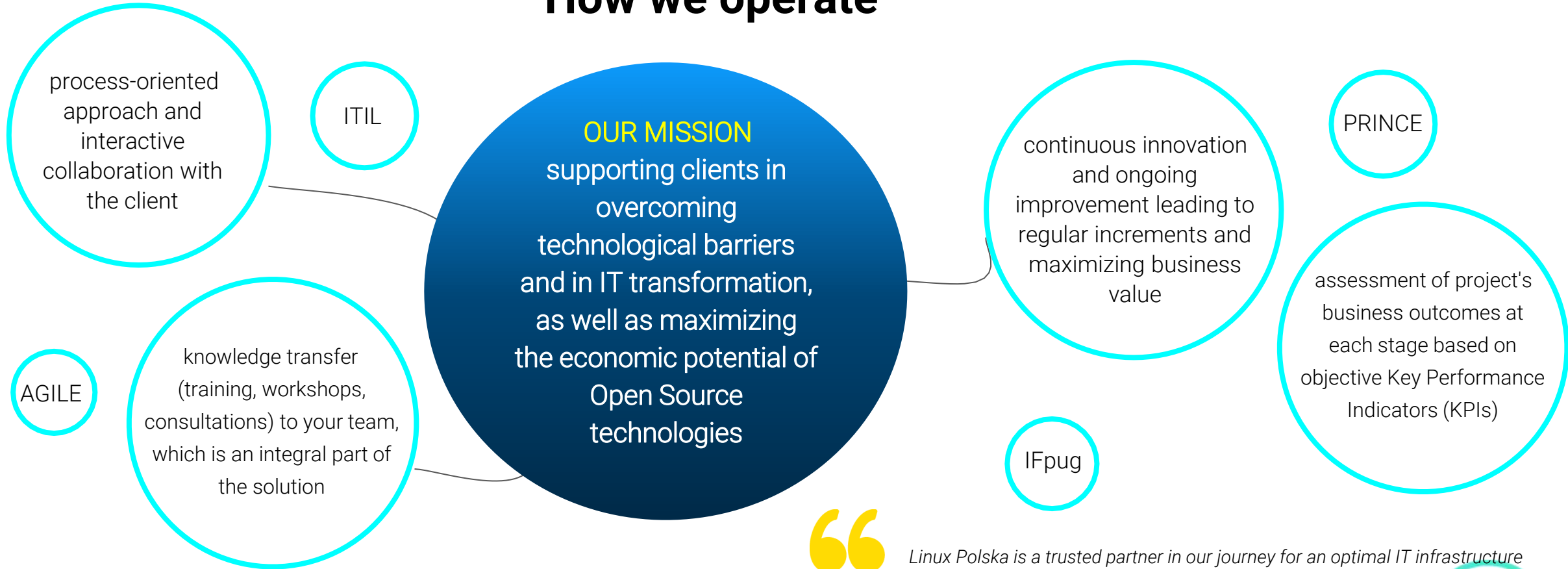
- Red Hat®: Certified Architect, Certified Engineer, Certified Specialist in Containers and Kubernetes
- Suse: Certified Administrator Rancher, Certified Deployment Specialist in NeuVector
- CNCF: Certified Kubernetes Administrator
- Vmware: Certified Professional Data Center Virtualization, Data Center Virtualization Design
- Splunk: Certified Architect, Security Certified Admin, IT Service Intelligence Certified Admin
- Splunk: Cloud and Enterprise Developer, Splunk Cloud Certified Admin
- Microsoft Certified: Azure AI Fundamentals, Azure Data, Azure Developer, Security, Compliance and Identity
- AWS: Certified Cloud Practitioner, Certified Solutions Architect
- Google: Professional Cloud Architect, Cloud Network Engineer, Cloud Security Engineer
- Zabbix: Certified professional, certified professional
- Elastic: certified architect, observability engineer,
- PostgreSQL: architect and engineer
- PM: ITIL, PRINCE2, AGILE, IFPUG, PMP, CAPM, PMI

## Selected clients

- PKO BP (bank)
- mBank (bank)
- KNF (Polish Financial Supervision Authority)
- BGK (Bank Gospodarstwa Krajowego)
- NBP (National Bank of Poland)
- PEKAO SA (bank)
- Warta (insurance)
- PZU (insurance)
- Orange
- NASK
- P4 (Iliad)
- ZUS (Social Security)
- ARiMR (Agency for Restructuring and Modernization of Agriculture)
- Ministry of Justice
- Ministry of Finance
- COI
- European Space Agency
- Alior Bank
- Intercity
- NFZ
- KIR



# How we operate



Open source is the future of IT. It's impossible to have a serious discussion about building a modern IT environment without addressing the topic of open source. The journey from physical servers through virtualization to containerization and cloud solutions is a natural progression that many institutions have undergone. *Thanks to open source and the expertise of Linux Polska consultants, we have undergone a transformation while maintaining cost control and independence from a single vendor.* - VP of Agency for Restructuring and Modernization of Agriculture



Linux Polska is a trusted partner in our journey for an optimal IT infrastructure tailored to our business model and providing a competitive edge in an increasingly demanding market. Linux Polska has helped us embrace open source. It's a fantastic, innovative area of IT that opens up new opportunities, but also requires specific knowledge of software development and legal/licensing aspects. *The expertise of Linux Polska architects has helped us overcome the entry barrier into this realm.* - Technical Analyst, Warta SA (insurance company)

## Open Source - how is it used by us?

### Supported Open Source technologies:



localized supplementary support



enterprise support for Open Source technologies



support for internal Open Source production processes



support for products based on Open Source technologies produced by Linux Polska

support for products based on Open Source technologies



produced by third-party companies

### Services at all stages of adoption:



requirements analysis, vision creation, and architecture development



guidance in selecting tailored technology solutions



system design and cost estimation



performance of Proof of Concept (PoC), Proof of Value (PoV), and pilot projects



workshop-based deployments with knowledge transfer



support throughout system adoption and stabilization phases



team competency enhancement



technological and licensing audit services



## Method of carrying out the work

Due to tangible outcomes, we suggest to carry out work using an incremental model (sprints) as outlined below:

- **Incremental model**  
The team organizes work incrementally. An incremental approach to working on solutions allows for precise control of outcomes and better alignment with the recipient's expectations.
- Close and **continuous collaboration** with the client's team
- **Synchronization with streams**  
The work of the Linux Polska team is synchronized with the work of the client's teams, particularly those organized around the value stream.

The team will be adequately informed about the objectives of each assigned task (epic, story, etc.) assigned to the team.

The team works iteratively, with a proposed duration of each iteration being 2 weeks. Each iteration of work is preceded by:

- **Review** of work completed in the previous iteration, including solution demonstrations
- **Retrospective**
- **Planning** for the next iteration.

The iterative approach allows for efficient verification of progress, reorganization of work if necessary, and synchronization of tasks, adapting the team to new expectations.

Example rituals planned as part of the work on the project:



**ANALYTICAL WORKSHOPS**  
for gathering information



**BACKLOG od TASKS**  
is developed at the initial stage



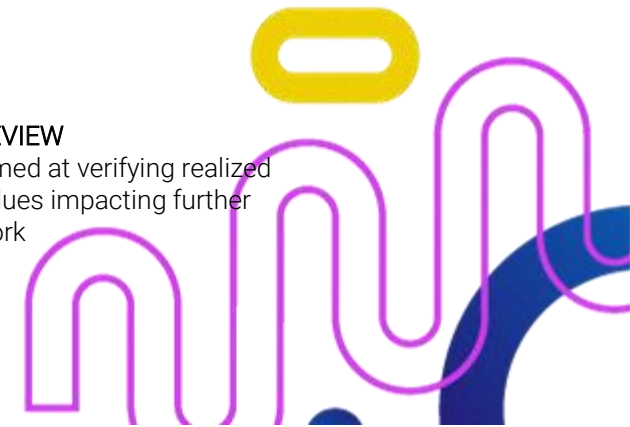
**DAILY MEETINGS**  
during work to facilitate progress communication



**PLANNING**  
of increment to determine team tasks



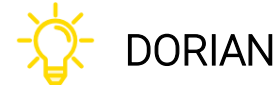
**REVIEW**  
aimed at verifying realized values impacting further work





## Our own solutions and applications (selected)

**DORIAN**  
Digital Operational Resilience  
Investigation and Analysis



DORIAN is a software that supports the process of operational risk management in organizations covered by DORA regulations. It supports the organizational function of limiting the impact of operational risk in the ICT area through risk analysis and management. Results are presented in the form of dynamic graphs



Sourcematic.com offers a comprehensive supply chain management solution designed to streamline and optimize procurement, sourcing, and inventory management processes for businesses. The platform leverages advanced technology, including artificial intelligence and machine learning, to provide real-time data and analytics, enabling companies to make informed decisions. Sourcematic.com facilitates efficient supplier management by automating workflows, improving communication, and ensuring compliance with industry standards. The solution is tailored to meet the needs of various industries, offering customizable features that enhance visibility, reduce costs, and improve overall operational efficiency in supply chain management.



Developed by Linux Polska engineers, a set of tools and technologies enables automatic deployment of the EZD RP application on any runtime environment, from the public cloud to installation on the client's physical servers. The system environment is maintained by Linux Polska as part of the sourcematic.com project.

# DevOps transformation with CI/CD pipeline for the largest public banking institution

## BUSINESS GOAL

The primary business objective of the DevOps transformation was primarily to enhance efficiency, quality, and speed of software development within the organization, achieved through:

- increasing organizational awareness and adoption of Agile practices;
- enhancing the efficiency of delivered value;
- shortening the time to market for new functionalities;
- simplifying the software development process;
- accelerating software delivery;
- improving team efficiency.

## OUTCOMES

- Implementation of a containerization platform and deployment of applications/systems;
- Automation of processes related to software development and deployment;
- Integration of various teams and tools;
- Deployment of CI/CD standards for 9 systems and applications;
- Significant increase in software deployment frequency by teams adopting new practices;
- Proper delineation of work between development (Dev) and operations (Ops) departments through the adoption of appropriate DevOps culture patterns.

## LINUX POLSKA SUPPORT

The scope of work carried out by Linux Polska includes:

- conducting comprehensive needs analysis;
- developing software development standards, package version management, and artifact stream management;
- support for modernizing maintenance areas in terms of application configuration and administration;
- creating and refining ci/cd standards within the maintenance process;
- developing a standard for application delivery by suppliers;
- deployment and support for containerization platforms;
- developing a team support model for modernization and automation of software delivery processes, in line with the latest industry practices in work efficiency;
- implementing agile practices in the mixed executive team model:
  - shift-left approach;
  - centralized artifact repository;
  - continuous integration;
  - continuous deployment;
  - dynamic environments;
  - code management strategies;
  - feature toggling (in progress);
  - test automation (in progress; collaboration with the testing team);
  - dynamic infrastructure provisioning (in progress);
- open collaboration model with the client (emphasis on teamwork, working in combined teams supporting free exchange of knowledge).

## Modernization of integration tools for the largest public banking institution

### BUSINESS GOAL

Reducing the Organization's technological debt through the development of a solution based on modern frameworks and conducting a progressive migration to the new solution.

Maintaining backward compatibility with the communication standards used in the current solution, while also opening up integration to more modern communication methods

### OUTOCOMES

Reducing technological debt by:

- changing the software development approach (simplification);
- utilizing continuous integration and deployment in a service-oriented environment;
- reducing workload through focus on integration logic;
- more efficient resource allocation through separating integration services into containers (allowing for autoscaling);
- clear separation of business logic and data models;
- embracing market-available competencies through the use of modern frameworks (spring boot);
- automating delivery to environments;
- choosing a lightweight and user-friendly technical stack based on widely-used open-source software in the industry (reducing competency costs).

### LINUX POLSKA SUPPORT

- Conducting a needs analysis;
- Developing the solution architecture and a plan for progressive migration to the new solution;
- Embedding the new solution on a containerization platform;
- Implementation along with the progressive migration of the Red Hat Fuse solution to a microservices-based solution;
- Developing software development standards and version management practices.



# Building the central log repository (CRLLO) in an on-premises model for the largest polish bank



## BUSINESS GOAL

The main objective was to implement a unified and consolidated platform within the bank for collecting, processing, and analyzing event information recorded by individual resources through the construction of a Central Log Repository using ELK (Elasticsearch, Logstash, Kibana) and Prometheus, Grafana technologies.

The project aimed to enhance monitoring in the following areas:

- system uptime;
- system performance and capacity;
- integrity and consistency of configuration files;
- access control measures for system resources;
- information security.



## OUTOCOMES

The implementation of the Central Log Repository in the Bank enabled:

- simplification and automation of system resource monitoring processes;
- efficient searching and analysis of logs from multiple sources, reducing the time needed for problem diagnosis;
- improvement in the quality of management and monitoring processes by obtaining a complete picture of system resource operation;
- increased security and access control to log data by providing a unified and secure location for log storage;
- time and resource savings through the automation of processes related to log processing and analysis;
- availability of a unified and up-to-date operational area for system resources, allowing for early detection of potential issues.



## LINUX POLSKA SUPPORT

Linux Polska provided support to the Bank during the design phase of the CRLLO solution, participating in and assisting the Bank with services related to the development and modernization of the corporate architecture, as well as industry best practices during the implementation and deployment phase of the system.



# Deployment of Kubernetes cluster management platform in private cloud infrastructure for a leading insurance market player



## BUSINESS GOAL

The primary business goal of deploying a Kubernetes cluster management platform in private cloud infrastructure for a leading insurance company in Poland was to enhance efficiency, scalability, security, and effectiveness in software development and deployment.

Building a Kubernetes cluster management platform in a private cloud infrastructure on VMware/vSphere platform involved designing, deploying, and configuring an IT solution that enables managing applications running in Kubernetes clusters located in a private cloud computing environment.



## OUTCOMES

- Better utilization of hardware and software resources.
- Easy scalability of resources, enabling adjustment of the environment to changing business needs and users.
- Increased level of security for processed data.
- Automation and standardization of software development and deployment processes.
- Faster and more efficient deployment of new services and functionalities.



## LINUX POLSKA SUPPORT

The scope of work carried out by Linux Polska included:

- designing the architecture of the solution considering business and technical requirements;
- deploying Kubernetes clusters on servers in the private cloud;
- configuring and deploying tools for managing and monitoring clusters;
- integration with existing systems and tools;
- configuring security mechanisms;
- conducting tests and deploying the platform.



## Contact details:

**Grzegorz Sułkowski – CSO (VP)**

grzegorz.sulkowski@linuxpolska.pl  
(sales, trade cooperation)

**Katarzyna Krystkiewicz – Operational Manager**

katarzyna.krystkiewicz@linuxpolska.pl  
(legal, operational, informational, cooperation matters)

**Tomasz Dziejczak – CTO (VP)**

tomasz.dziejczak@linuxpolska.pl  
(technological partnership issues, development directions, R&D)

**Magdalena Lasecka – Dyr. PMO**

magdalena.lasecka@linuxpolska.pl  
(service: pre-sales, PoC, project management, client cooperation)

