Kainskep Case Studies

Who We Are

Kainskep is a global technology and analytics services company. We help our clients achieve speed-to-market, overcome digital barriers, and create business value with our specialized service offerings and consultative business approach. We speak the language of business as fluently as we do the language of technology. In other words, we speak digitally.

Our goal: accelerate our clients' digital leadership.

50+
Employees

Based out of

Jaipur, Rajasthan

Delivering Solutions
Across The Globe

Solution Competencies

App Modernization and Cloud-Native


Microservices


Serverless


CNCF


Event Driven

Containerization

Application Development

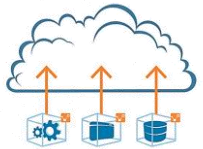

Web Development


Mobile App Development


Backend Development

API Development

Cloud Transformation


Cloud Migration


Cloud Management


Cloud Security


Cloud Assessment

DevOps and Automation

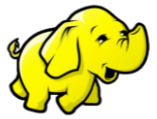

Infrastructure Automation


Continuous Integration


Continuous Testing

Continuous Delivery

Data & Analytics

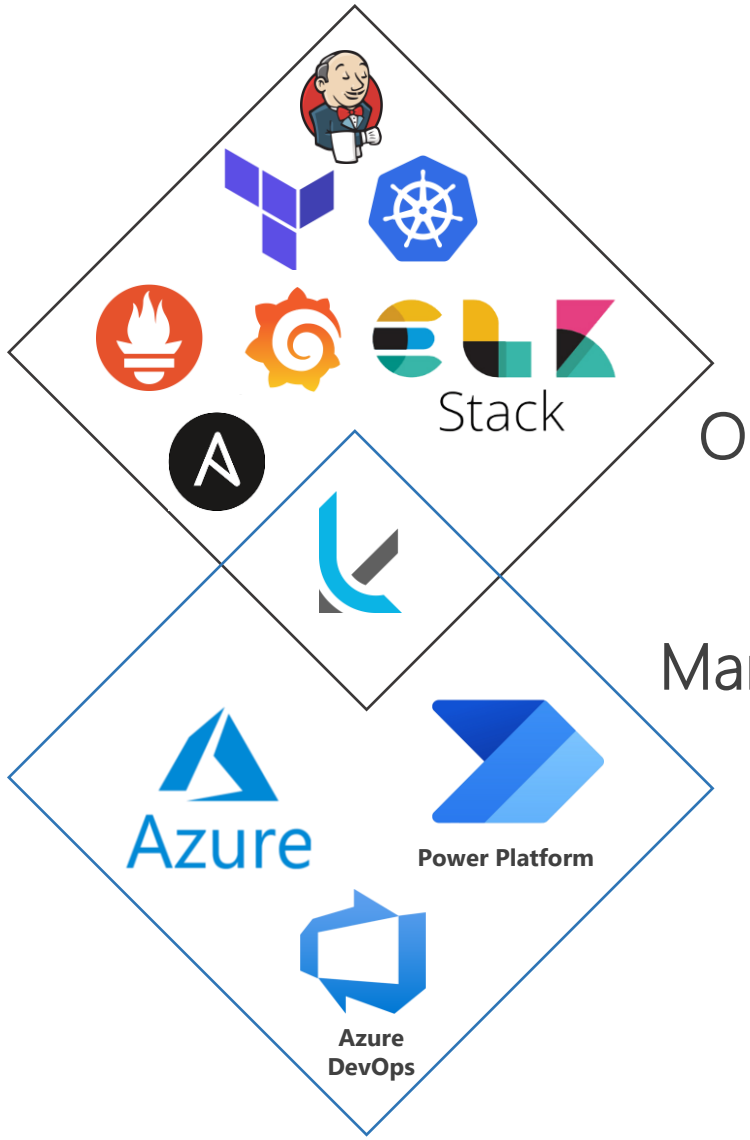

Big Data


Data Visualization

Data Warehouse


ETL Orchestration

Our DevOps Competencies



Open-source

+

Managed Cloud

Kainskep gives clients more choice and flexibility for their hybrid cloud applications and deployments, delivering enterprise solutions, simplified designs, rigorous security, and integrated support with the collaboration of Opensource and Manage Cloud.

Our Cloud Offerings

Lift and Shift

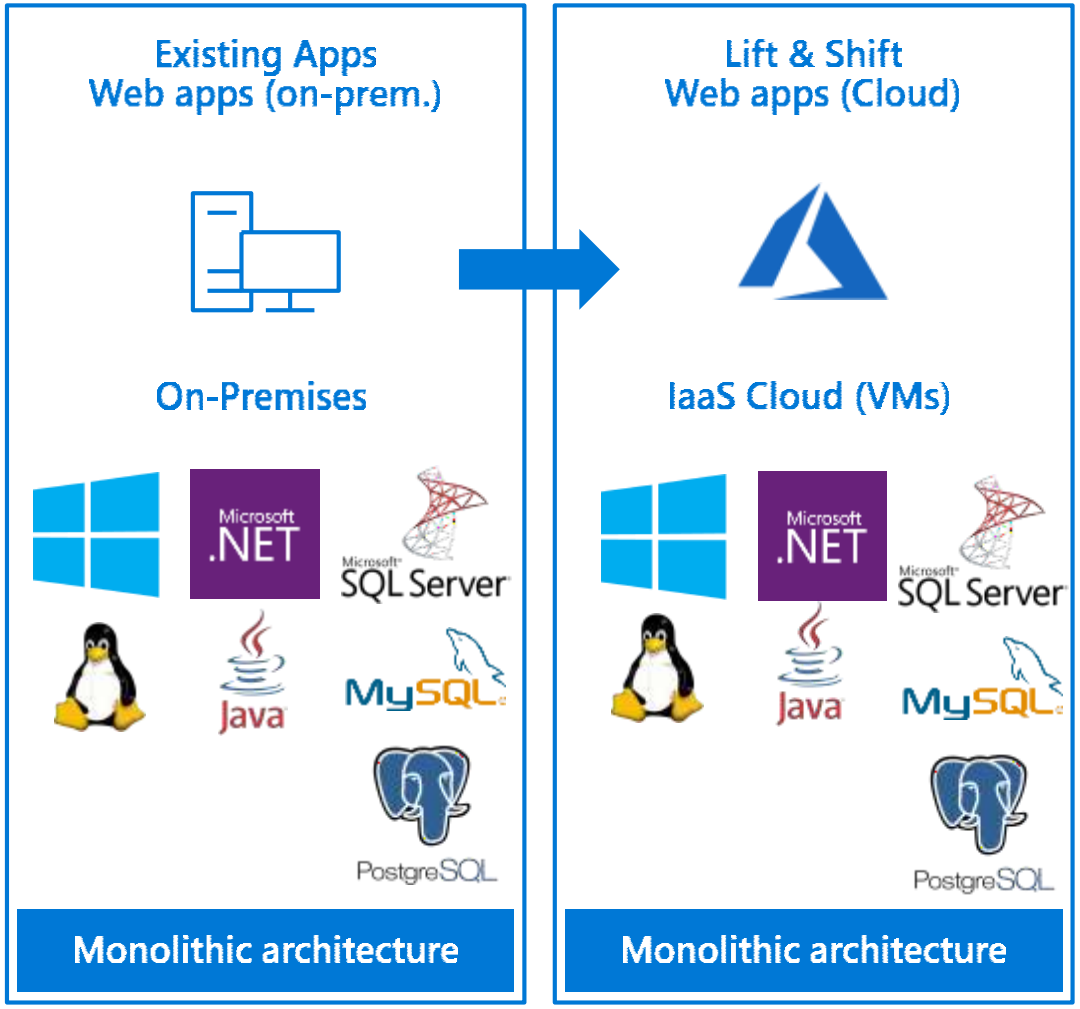
Migrate your on-premise application to IaaS on Azure

Pros

- No re-architect or new code
- Least effort for quick migration
- Improved flexibility and Cost optimization

Cons

- Smaller cloud value
- Manual patching, upgrades
- Limited automated app scaling and high availability



Cloud Optimized

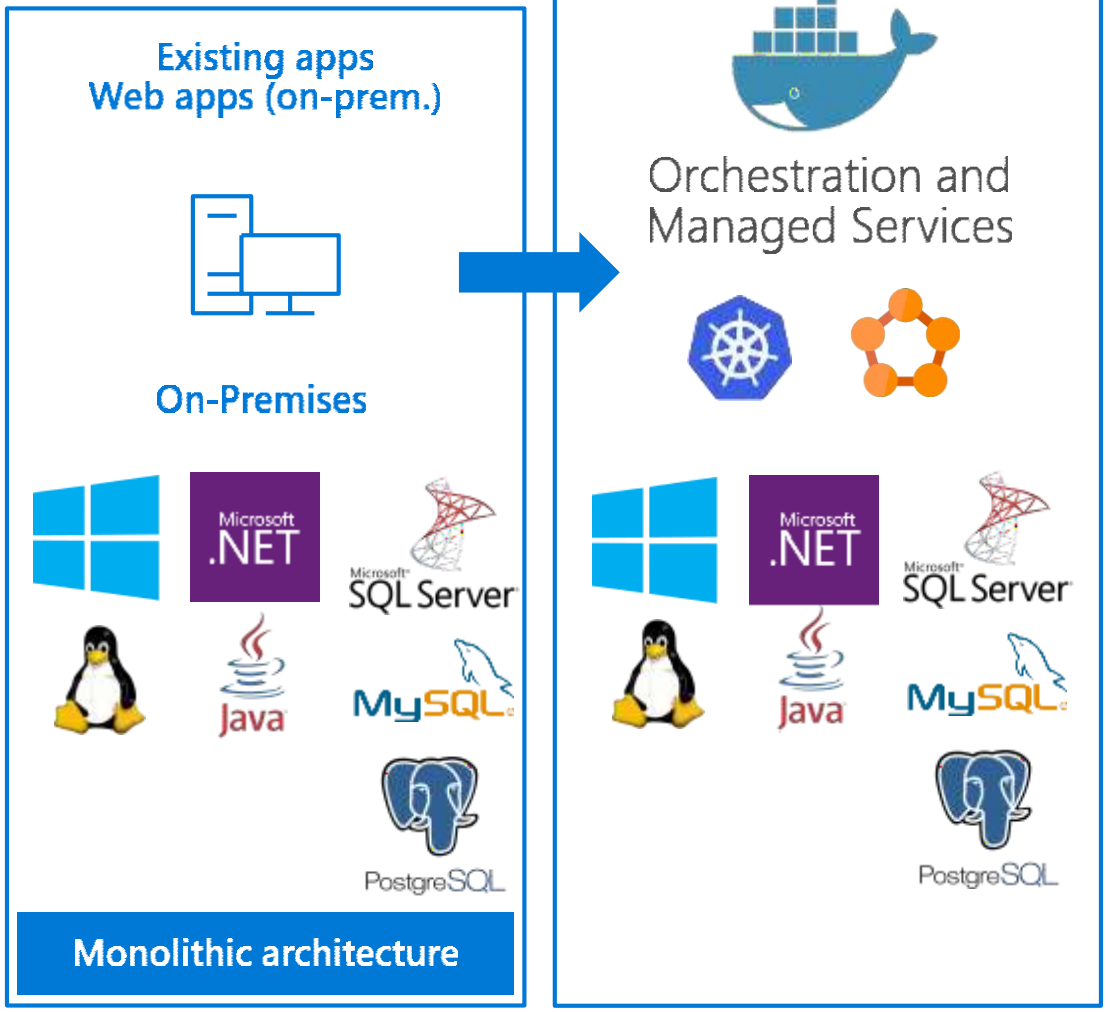
Get more Cloud benefit by Containerizing your app

Pros

- No re-architect or new code
- Increased density & lower deployment cost
- Improved productivity and DevOps agility
- Portability of apps and dependencies
- High availability with Orchestrators

Cons

- Containerization is an additional step



App Modernized

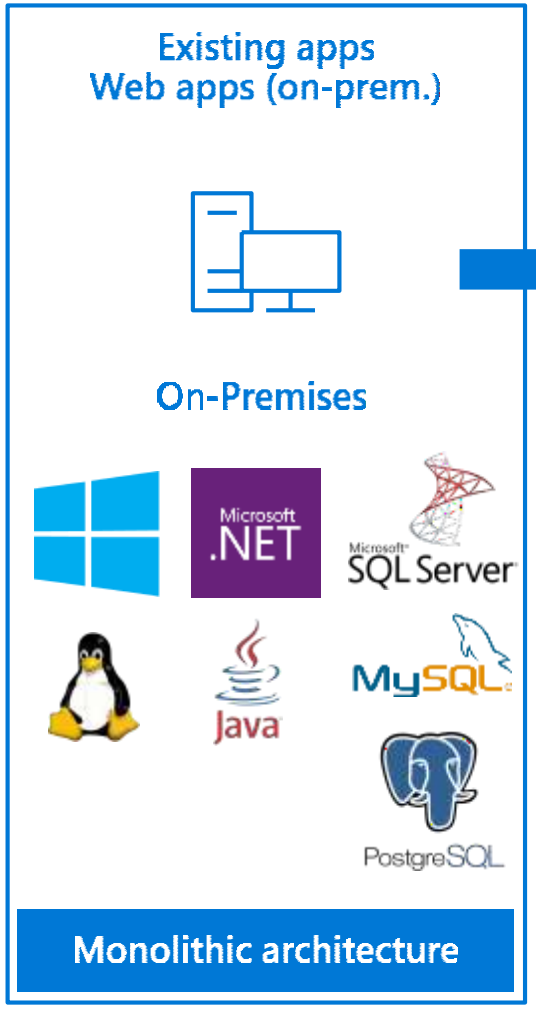
Extend your apps with new cloud native services including serverless, microservices and PaaS.

Pros

- Optimized for long term agility
- Optimized for scale and high availability
- Modern Architecture with Microservices

Cons

- Requires significant code refactoring or rewriting



Our Case Studies

Consumer Fintech Company

Application Migration to Kubernetes

Case Study

Overview: Our Client is one of the largest consumer fintech companies in MEA. They have a B2C Finance Application through which they are providing payment wallet service, discounts, and offers on many brands to their Customer.

Challenge: Our Client had their Web and Mobile Application which has been built using a microservices architecture. The frontend of the app is implemented using Next.js, and the backend of the app is implemented using Nest.js, a framework. Application was hosted on Azure VMs using Docker Compose where each microservice has separate server and deployment process was not very smooth.

They have servers hosted on Local datacenter provider for hosting Customer data which was exposed over internet.

Solution: Kainskep solutions worked with customer to migrate their microservices based application from VMs to Kubernetes Cluster. We configured auto-scaling, network polices, key vault integration, etc.

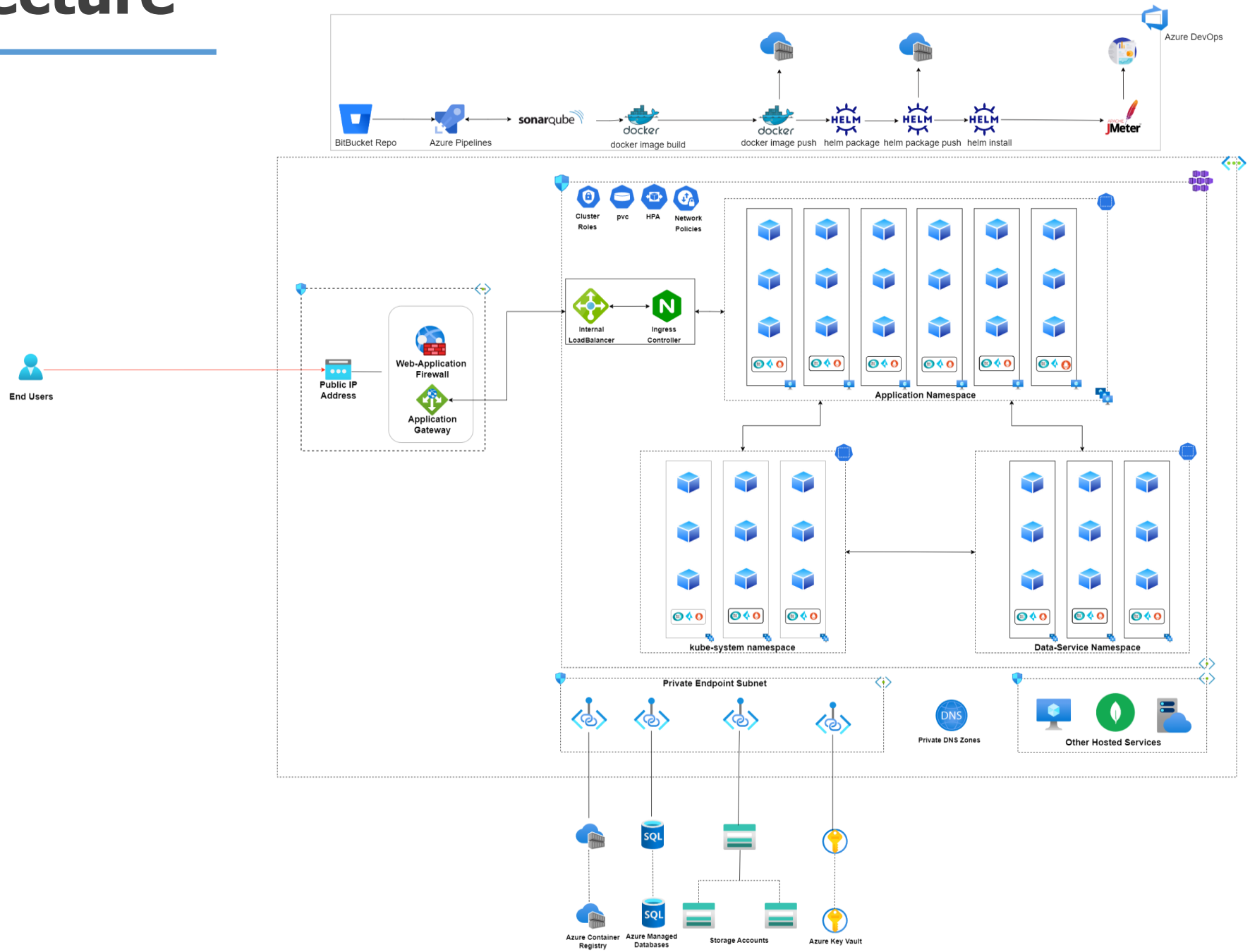
We used Azure DevOps for automated deployment of the microservices on Kubernetes using Helm Charts which give them flexibility to deploy application with near zero downtime. We integrated their existing SonarQube and other scanning tools as well with Azure DevOps pipelines. We also help them configuring VPN with local datacenter provider to establish secure communication across Datacenters.

Benefits: Migration to Kubernetes helped our customer with scalability, high availability, faster and smooth deployment of applications, etc.

It also helped them reduce the overall cost of the infrastructure for their applications.

We helped them enhance security for application and infrastructure and implemented backup strategy for data and services.

Architecture



U.S. Based Mining Company

Curtailment of Mining Servers through Azure Functions

Case Study

Overview: Our Client works on helping enterprise companies mine crypto coins using our world-class expertise and state-of-the-art infrastructure as simply or as customizable as they want. They have their server hosted on local datacenters to mine crypto coines.

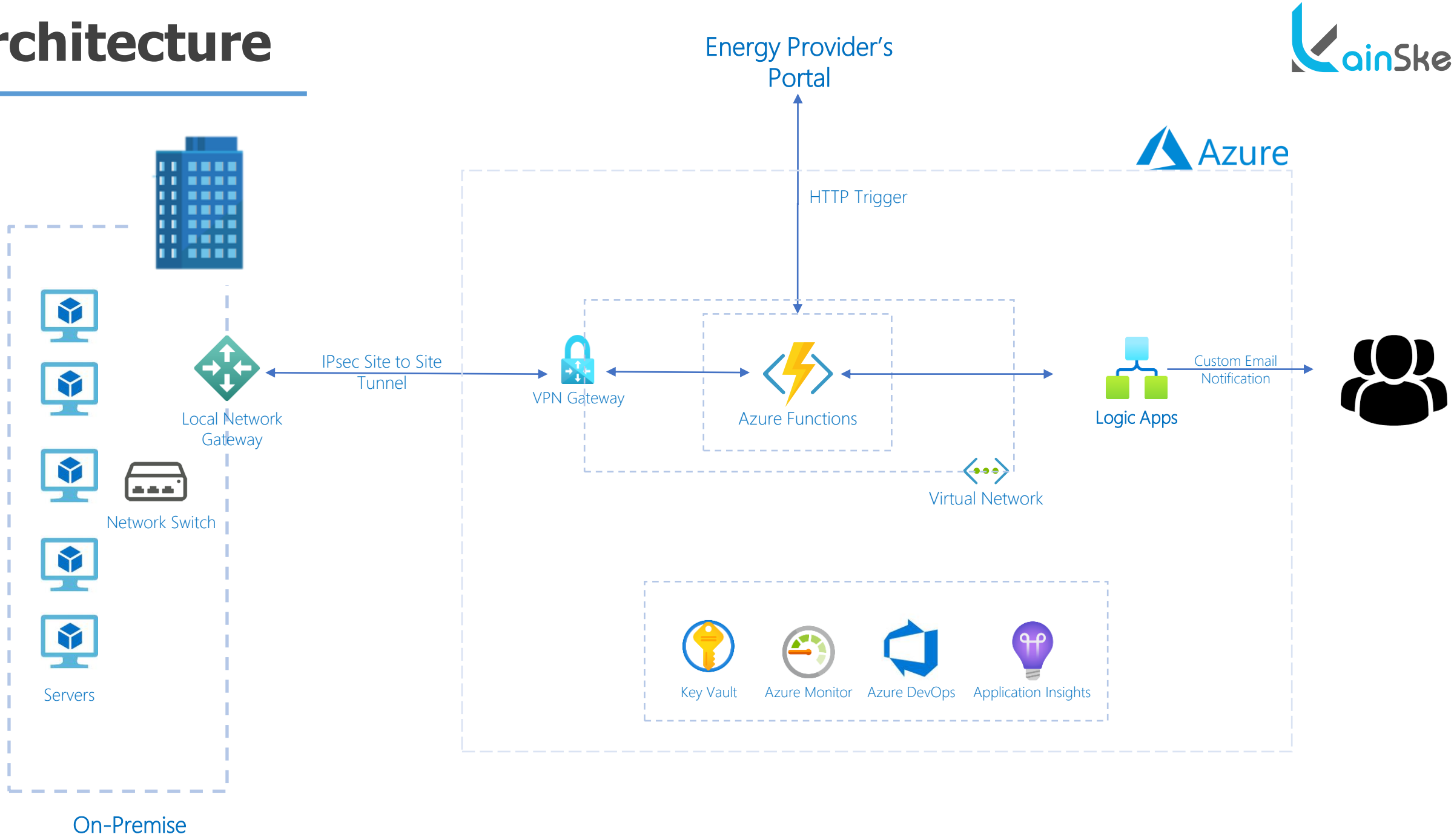
Challenge: One of the significant operational challenges in the cryptocurrency mining industry is the fluctuating cost of electricity. Electricity prices can vary widely based on factors such as time of day, demand, and availability of renewable energy sources. As a result, the operational costs of running mining servers can also vary significantly. To ensure profitability and cost-effectiveness, the client needed a solution that could automatically curtail their mining operations when electricity prices surged beyond acceptable thresholds.

Solution: We designed and developed a custom solution on Azure. Azure Functions allowed us to create event-driven, serverless compute resources that could execute code in response to various triggers like fluctuation of electricity prices beyond a predefined threshold. If the threshold was exceeded, the Azure Function would initiate the curtailment process. The Azure Function sent commands to the client's mining servers, instructing them to temporarily shut down mining operations. The process was designed to be seamless and reversible, ensuring that the servers could be quickly restarted when electricity prices returned to acceptable levels.

Benefits: By automatically curtailing mining operations during periods of high electricity prices, the client achieved substantial cost savings. Unplanned spikes in operational expenses were mitigated, leading to increased profitability.

The Azure Function-based solution ensured that curtailment decisions were executed promptly and accurately, minimizing manual intervention and reducing downtime.

Architecture



Equipment Manufacturing Company

Workflow Automation

Case Study

Overview: Our client is a leading equipment manufacturer for powered transportation and has its headquarters in the US. They are having many well-defined processes for their equipment design to manufacturing. These processes were managed manually with multiple tools which we automated as part of the project.

Challenge: Our customer had multiple workflows for different processes like equipment designing which required the involvement of many departments across the organization. They were using PDF form, and multiple decoupled systems to track the processes and tickets which was less efficient. These systems include HRMS systems, ticketing systems, Databases, etc. The customer was looking for a single interface for handling workflows with a low-code/no-code approach.

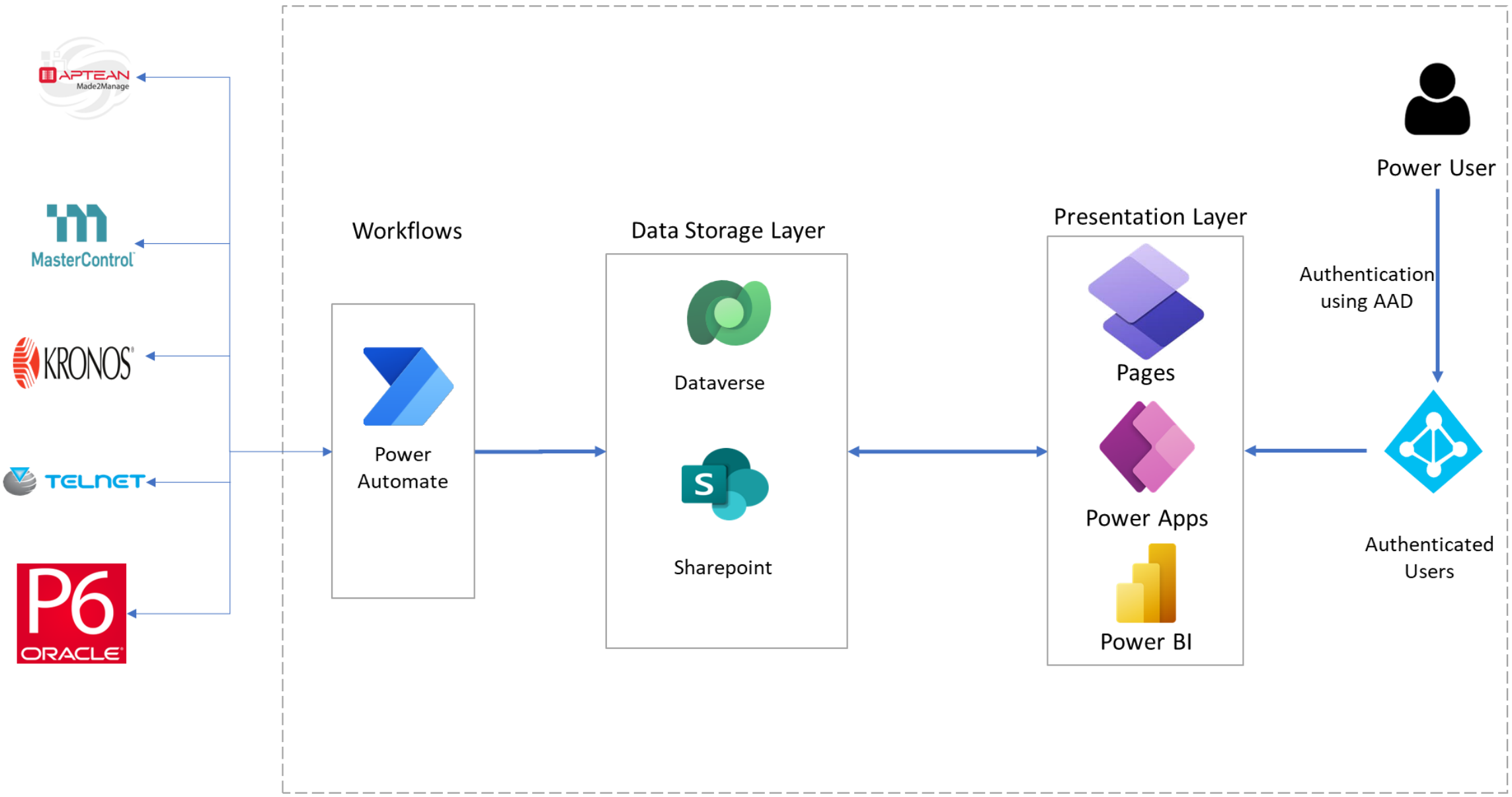
Solution: We used the Microsoft Power Platform for automating their workflows and processes. We created 40+ workflows for different processes and integrated them with their legacy systems using REST and SOAP APIs. We developed the interactive UI with PowerApps which had functionality like User check-ins, Time logs for assigned tickets, workflow status, approval, and triggers.

We also developed PowerBI Reports for the business stakeholders and department managers for end-to-end tracking of employees and workflows.

Benefits: With the solution developed by Kainskep, our customer achieved efficient workflow management and tracking system with a unified experience with reduced overall time for an employee to complete tasks and manage multiple systems.

Our automated workflow increased the efficiency by 50% and helped them remove the overhead of managing files.

Architecture



KainSkep

Thanks