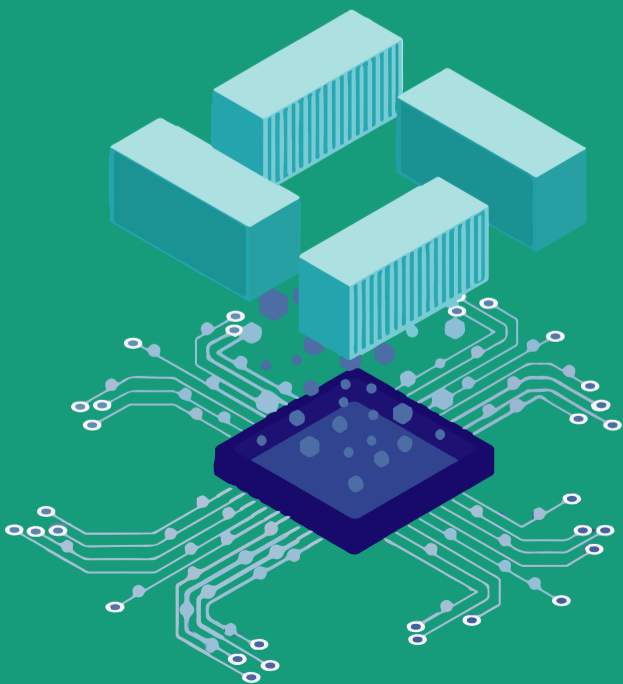**Innominds**

Accelerate Cloudification with Kubernetes

Simultaneous orchestration, Kubernetes cluster setup and configuration, deployment testing and Docker images creation
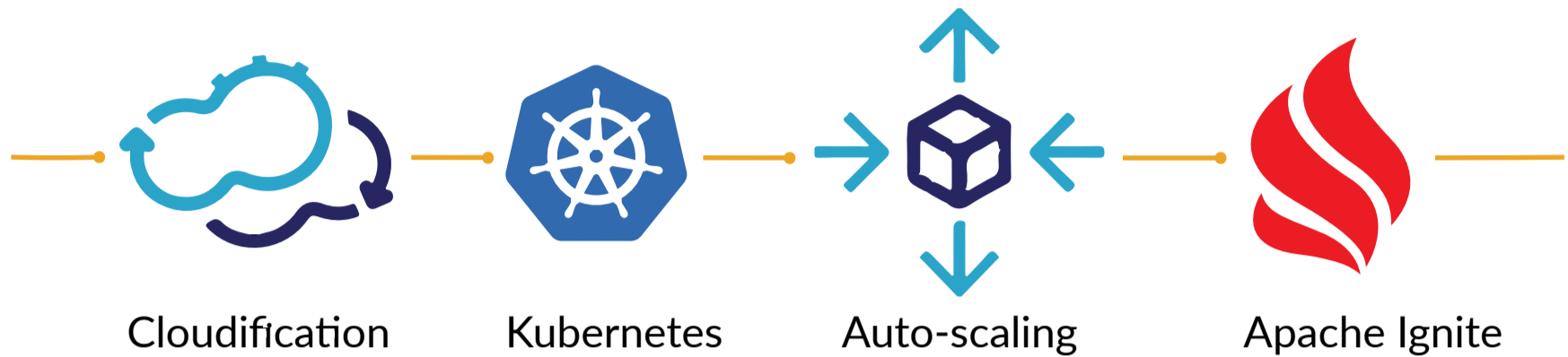
Client Need

The objective of the client is to **improve cloud scalability** by accelerating cloudification, and **refactoring** the data integration platform through **containerization**, and deployment of **public cloud with Kubernetes.**

The client's product is a **remotely configurable** software application that should reside on Microsoft Windows-based computing platforms, by providing **intelligent convergence** of **network-aware assets.**

How Innominds Helped

Containerization makes applications easier to maintain, load, and get deployed. Simultaneously orchestrating the flow of processes with Kubernetes will integrate large toolsets into its operations. Innominds couples the two DevOps processes to make a functional design and operational process to entire workflow.

| Cloudification | Kubernetes | Auto-scaling | Apache Ignite |

1

Cloudification was done on different levels, where we created Docker images for the server instances, and for web application that provides light-weight web interface for listing, loading and unloading pre-configured 'systems' in the server instance.

2

Further, Kubernetes clusters were configured and setup. Essentially following the set up was the testing of the deployment, on-premise and on Microsoft Azure.

4

On top of everything, we also tested the auto-scaling feature by spawning multiple nodes in the cluster setup.

3

To optimize the clusters configuration and maintaining high availability, Apache Ignite was analyzed and explored.

What the Client Gained

Cloudification with Containerization (Dockerization)

Kubernetes

Quality Engineering

Azure Kubernetes Service (AKS)

Providing the ability to spawn new nodes on need basis