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Cloud Migration

Service overview

Move on from your legacy on-premise infrastructure to secure and reliable cloud

ELEKS will help you to create and implement a cloud migration strategy to optimise your current IT infrastructure. You'll gain in cost efficiency and scalability by moving all or part of your infrastructure from a data centre to Azure cloud.

We will cover every step of your migration journey:

current infrastructure assessment;

migration plan design and implementation;

cloud costs optimisation;

security monitoring and data protection;

infrastructure TCO calculation.

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Cloud migration benefits

Reduced cost of
IT infrastructure
operations with a
**cloud-based
operating model**

Primary

Flexible cost of
cloud resources and
elastic allocation upon
actual demand

Enterprise standards
for security and
integration with on-
premises services

High efficiency and
reliability of IT
operations with
increased
automation (DevOps)

Horizontal and
vertical scaling (e.g.
load-based number
and class of servers),
enterprise-level
disaster recovery
and high availability

Secondary

Technology
modernisation and
consolidation
(e.g. replacement of
legacy AS400)

Reduced dependency
from current
infrastructure provider

Efficient application
development and
operations with a
common cloud-native
platform

One-stop
responsibility for
cloud platform
operations and
application support

MIGRATION JOURNEY

Assess

Discover

Map on-premises
applications

Evaluate

Migrate

Rehost

Refactor

Rearchitect

Rebuild

Optimize

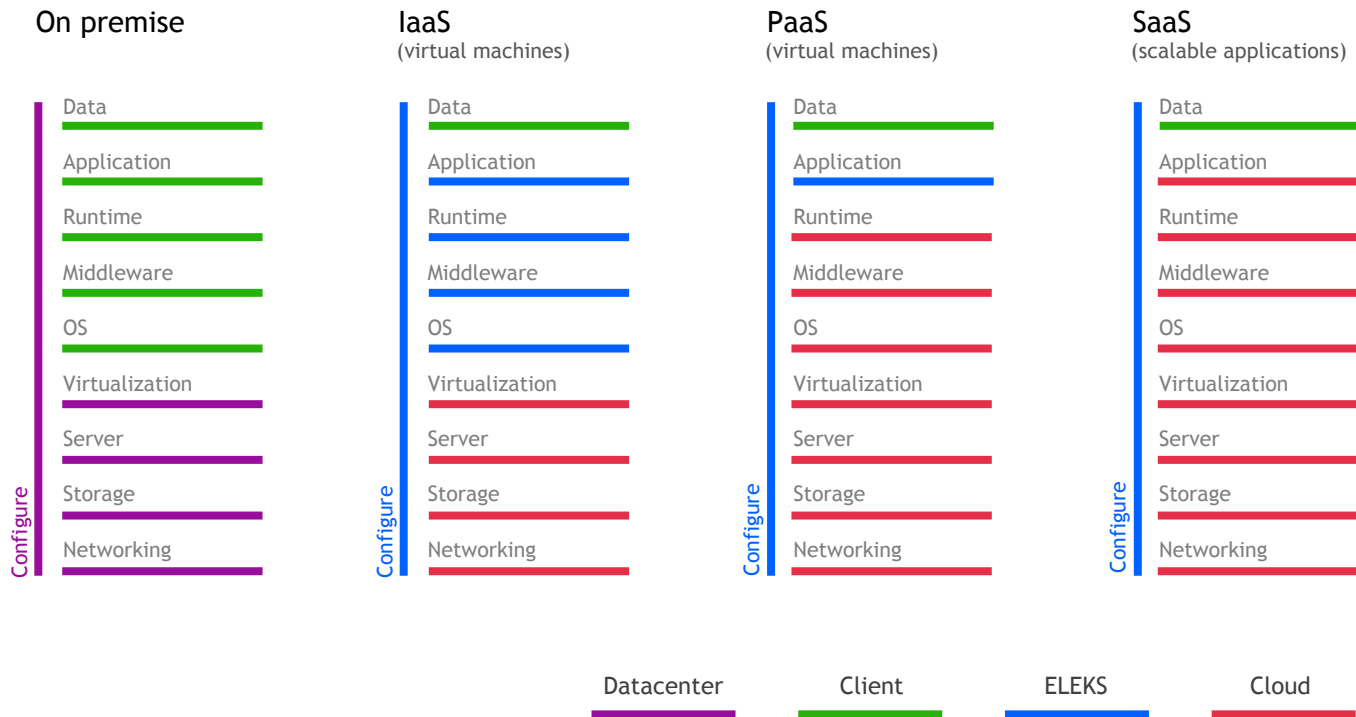
Cost management

Security

Cloud health monitoring

Data protection

MIGRATION TARGET OPTIONS



APPLICATION MIGRATION SCENARIOS

Rehost



Moving apps from your datacenter to the cloud with no code changes

Your don't need to change the apps' capabilities right away

Applications or database requirements can only be met using a Cloud IaaS virtual machine

Refactor



Using existing code base and development skills

An application can be repackaged to work in the cloud

Applying DevOps best practices provided by the cloud

Rearchitect



Meeting scalability requirements in a cost-effective way

Applying DevOps best practices provided by the cloud

An application may need a major revision to incorporate new capabilities or to work more effectively on a cloud platform

Rewrite



Building new applications using cloud-native technologies

Expediting your business innovation

Applying DevOps best practices provided by the cloud



Cost optimization scenarios

There are two
main scenarios
for IaaS cost
reduction

Scenario 1 On/Off

This scenario allows turning the infrastructure on when you need to work with it and turning it off when the work is finished

Examples:

Development and test environments that have to work for 8 hours 5 days per week

Annual tax calculation engine that has to work one month per year during the taxation period.

The systems from both examples will be completely inaccessible outside expected working hours.

Scenario 2 Predictable burst

This scenario is similar to on/off, but the system will never be shut down completely, the required capacity will be reduced to minimum

Example:

Pre-flight check application that requires higher capacity from 6AM to 10PM (when most of the flights take place). Outside of these hours, the capacity can be reduced to minimal required level.

While the system will be accessible 24/7/365, its owners can still save on hosting capacities.

ELEKS cloud expertise

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successful Cloud
infrastructure
projects
completed last year

Portfolio of AWS, Azure
and Google cloud
projects,
as well as open-source
Docker/Kubernetes clusters

ELEKS' proprietary
integration platform
and applications
that automate cloud
deployment and integration

Architecture Management

„As-is“ analysis and documentation,
target architecture vision and
component design;
“To-be“ documentation, transition
planning;
In-house Software Architecture
office for expertise development

Cloud Operations & DevOps

Infrastructure as code (IaC)
approach using e.g. Ansible,
PowerShell, Terraform for
automated deployment

20% senior staff with 5+ years of
experience; systematic
competency management

Industry specific experience

Cloud Integration projects in
telecommunication, agriculture,
parcel delivery & logistics,
commodity trading, retail,
finance, insurance and more

Complex cloud solutions with Big
Data, BI, real-time monitoring,
data migration

Support as a Service

L2/L3 support established

OUR ADVANTAGES

Up to **20%**
discount and
support from cloud
service providers

Up to 30x faster migration

with ELEKS' proprietary deployment
platform

Cloud certifications

ELEKS experts hold certifications with
all available cloud platforms



Proposed collaboration structure

IT and Business Steering

- Client's C-level and top management
- ELEKS' Executive Advisor and Account Manager

Project Management

- Client's Project Manager / Sponsor
- ELEKS' Project Manager
- ELEKS' Cloud Solution Architect

Project Execution

Discovery, Migration, Support

- Client's Application Owners
- Solution Architect
- Security Officer
- Network Specialist
- Software Engineering team
- DevOps team
- QA team

Client's Counterparts for coordination

CASE STUDIES

**We measure our success
by the success of our
customers**

200+

customers since 1991

10+

years of
relationships with
key customers

Fortune 500

customers

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CASE STUDY

AGRICULTURAL PROCESSES AUTOMATION

300+

automated processes

100+

services migrated to the
Cloud

30 ms

streaming analysis
latency

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CUSTOMER

for a leading diversified agricultural
holding in the Eastern Europe

SOLUTION

Clustered infrastructure with
scalable containerised application
provides hybrid PAAS integrated with
Enterprise Service Bus.

Over 5,000 physical fields were
covered by the Monitoring System.
Resource Planning and Inventory
Management System with BPMN and
real-time data visualization were
created.

Fast Data processing system is
monitoring last 5 GPS position of
100,000+ drones and harvesters that
move around fields (more than
1,500,000 events per second). An AI
solution was implemented to predict
yield and optimise resources.

90%

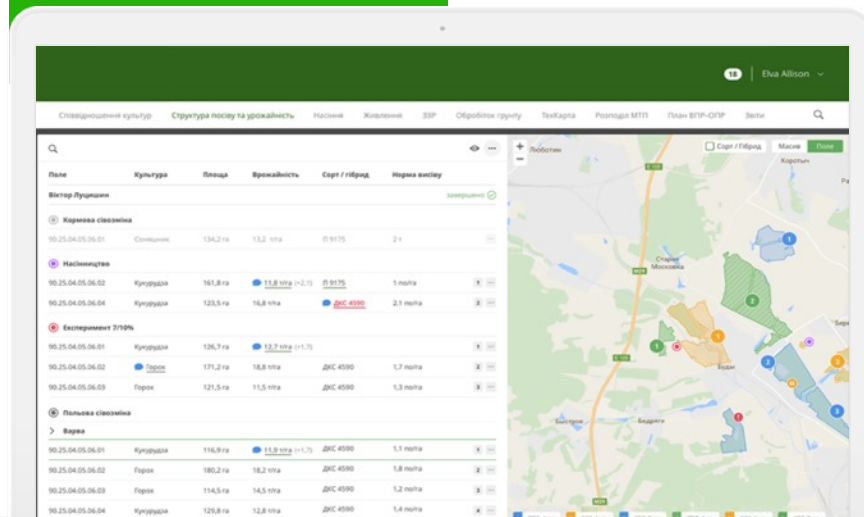
of all operations
were automated
eliminating human
factor errors

Optimised cost

of cloud resources with elastic
allocation, horizontal and
vertical scaling

Enterprise standards

for security, disaster recovery,
availability and integration with
on-premises services



CASE STUDY

OPTIMIZING THE BIG DATA STORAGE OF A LOGISTICS ENTERPRISE



One of the largest logistics companies in the Middle East

ELEKS team has been playing a key role in transforming and upgrading our IT services to be in line with international best practices. They have proven to be a very responsive and proactive partner.

Omar Mohammad

Process Management Director
at Aramex



Along with several application development projects, ELEKS helped Aramex to migrate part of their IT infrastructure to the Cloud.

We have created a PoC of a Big Data DWH in Azure Cloud to store all the historical data about shipments. We have recreated the client's on-premises DWH in the Cloud and integrated it with the operational systems for regular automatic data updates.

Together with the data, the ELEKS team helped the client to migrate and upgrade several data analytics models that predicted demand, transit time and consignee locations.

Regular retraining of the analytics models

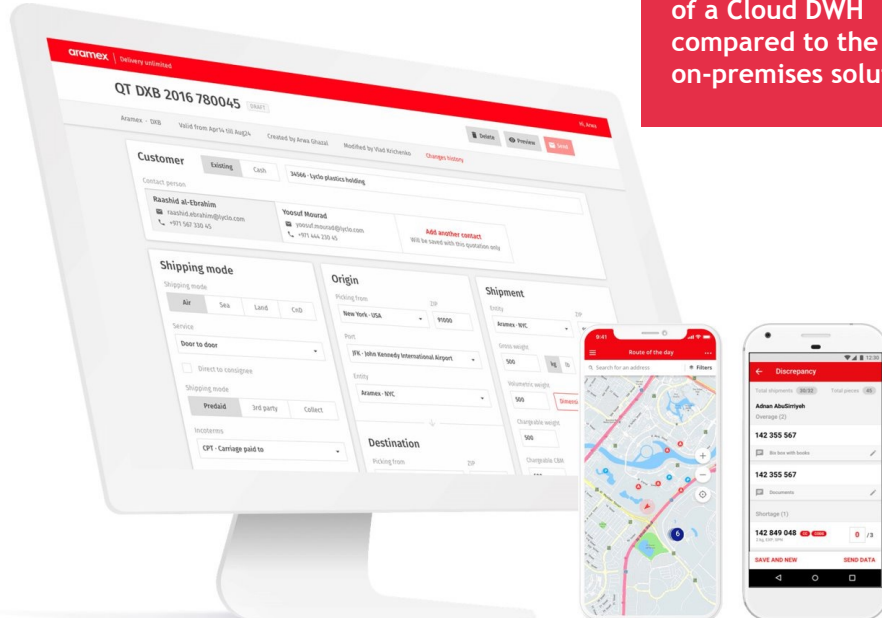
based on the newly generated data

Scalable and flexible storage

that allowed extensive data updates

Lower hosting cost

of a Cloud DWH compared to the former on-premises solution



The logo consists of the word "eleks" in a white, lowercase, sans-serif font, centered within a solid blue square. The background of the entire slide is a complex, 3D geometric pattern of interlocking cubes and triangles in various shades of blue and purple.

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The Custom Software Development Company

Have a question?
Write to eleksinfo@eleks.com

Find us at eleks.com