

VISIONET

Application Modernization Services

www.visionet.com



Application Modernization Services

Free 2 weeks App Modernization Assessment Services Offer

Over the years, Cloud computing has evolved from providing high-availability virtual machines to offering robust features enabling Artificial Intelligence, Machine learning, IoT, Containers etc.

Visionet can help you modernize your business-critical applications and accelerate your path towards cloud native adoption. We leverage our accelerators to carve out the best possible transformation path to support your cloud journey

Our Design considerations

 Hybrid & Multi-cloud Agnostic	 Agile & SecDevOps Driven Development	 PAAS & Container based Architectures	 Optimization of Cloud Services Usage	 Enhanced Security
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Plan & Kick-off

Executive sponsorship is established through communication. Setup environment


Step 1 **Initiate**



Scan & Access

App owners complete an application survey. The tool analyzes code stacks.

Step 2 **Scan & Assess**




Results Interpretation & Recommendations

Actionable software analytics and online portfolio-wide dashboards include technology mix; app health and risks; business impact context; and cloud readiness.

Enterprise-wide portfolio intelligence is available on a secure, private cloud.

Step 3 **Insight**



2 Weeks Activity, depending upon number/size of workloads



Company overview

1995

Established

CRANBURY

Headquarters

7,500+

Global Employees

350+

Clients Served Globally

Why Visionet?

Visionet has become the go-to Microsoft Azure partner for companies seeking to fast-track their Microsoft Azure, D365 and M365 adoption. www.visionet.com/Microsoft-alliance.

Specialization

- Mortgage
- Digital Commerce
- Dynamics 365
- Data & AI
- Cloud Computing
- Solution Development
- Platform Support
- Enterprise Architecture & Strategy
- Retail & Ecommerce
- Supply Chain & Distribution
- Consumer Lending

Certifications

Numerous Industry certifications

Partnerships

Strategic partnerships with technology principals



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Case Study 1

Overview

Pure Health is a leading laboratory consulting and medical supply company in UAE

Technology

- React JS
- Node JS
- MongoDB
- Azure Kubernetes
- Logic Apps
- Azure Service Bus
- Azure App Insight
- Google Analytics
- PowerBI

Services

- UX Strategy
- Architecture design & development
- Test Automation
- DevOps & CloudOps

Challenges

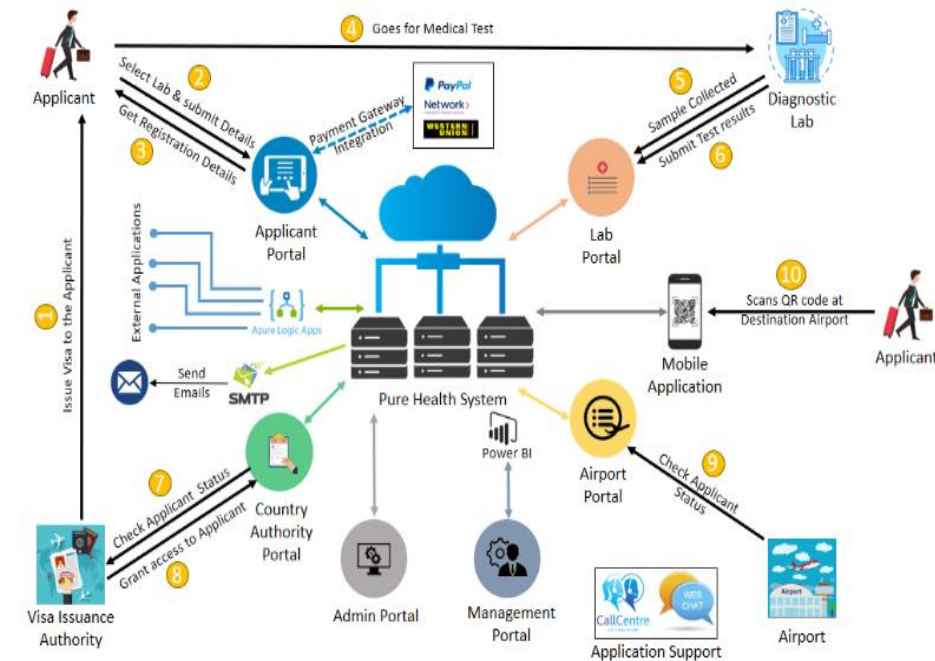
- Time to market was a huge challenge - they wanted all portals to be up and running in 2 months' time
- The performance, stability and 100% uptime was a basic requirement because of the critical nature of the applications. Any downtime or issue has direct impact on people travel plans.

Visionet Solution

- Centralized platform providing screening portal for individuals travelling to UAE
- Applicants portal, Admin portal, Lab portal, Airport portal and Country authority portal all integrated to provide centralized information as per business flows
- Mobile application for Airport users for validating travelers visa status using QR code
- Scalable solution using Microservices architecture.
- Multi-Regional, Highly Available and Scalable Azure architecture with MongoDB database.
- Logic Apps and Azure Service Bus used for integrating 3rd party applications like Airlines, EIDA, Dubai Airports, Payment Integrations etc.
- Power BI based extensive reporting
- Test Automation using Robot framework

Customer Benefits

- Time to market – the overall portals are developed and made live within 2 month's time
- Scalable and cost-effective solution
- Secure integrations and PCI compliant solution
- Extensive reporting, logging and tracking



Case Study 2

Overview

Telenor is Norwegian based multinational telecommunication company

Technology

- Node.JS
- PHP 7
- PostgreSQL
- NGNIX
- iOS, Android
- Kubernetes
- Dockers
- Redis
- Prometheus
- ELK Stack
- Grafana

Services

- UX Strategy and Design
- Design and Development
- Automation testing
- DevOps Implementation
- Private Cloud Setup

Challenges

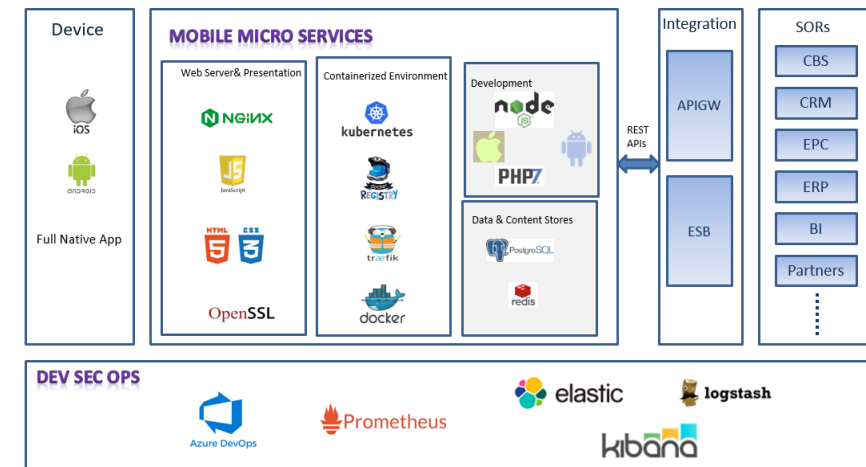
- Robust and scalable solution (Mobile & Web App) to support 8 million (growing) subscriber base
- On-prem cloud native implementation

Visionet Solution

- On-prem Microservices architecture allowing scalability and maintainability
- Opensource tech stack to reduce licensing costs
- Automated testing using Robot framework
- DevOps with CI/CD
- Extensive logging and monitoring using latest opensource tools

Customer Benefits

- Scalability and maintainability
- Time to market
- Complete open-source stack
- On-prem cost effective deployment



Case Study 3

Overview

Ta3mal was launched by Silatech and Microsoft in 2012 and is the region's first employability platform that seeks to help young job seekers enter the job market.

Technology

- Azure VMs
- Windows Server 2016, CentOS 7
- Apache 2.4
- PHP 7.x / Drupal 9 / Laravel 5.8
- MySQL 8
- Elastic Search / Redis

Services

- Application modernization
- UX redesign
- Re-architecture
- Data migration
- DevOps Implementation

Challenges

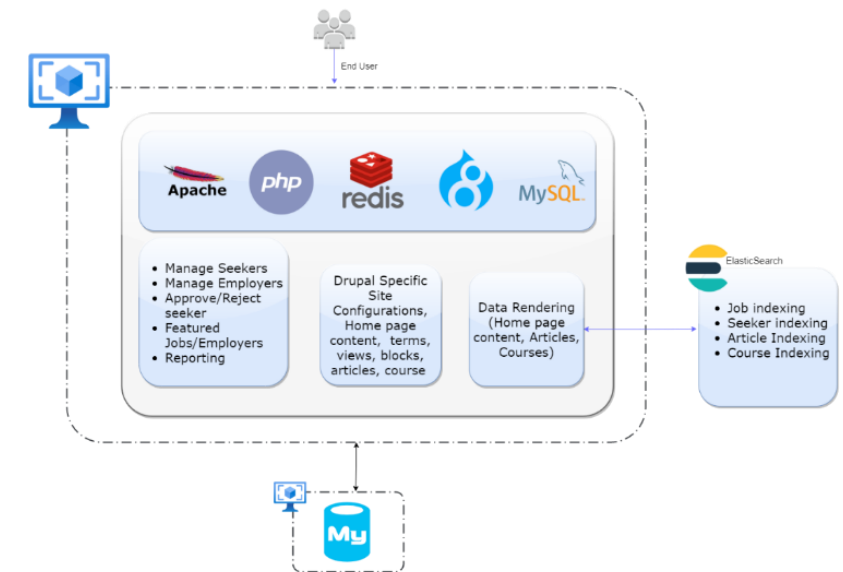
- Legacy application built in 2014 using old technology was a growing problem
- Client needed to modernize its core Job Portal application to achieve their goals for engaging youth in Arab Region.
- User Experience of the Job portal was not intuitive and easy to use
- Multiple Admin Portals to manage different regional portals
- Legacy system needed to be re-engineered to improve application performance and scalability
- Integrations with Third Party services from "Bayt" were causing them hefty amounts every year

Visionet Solution

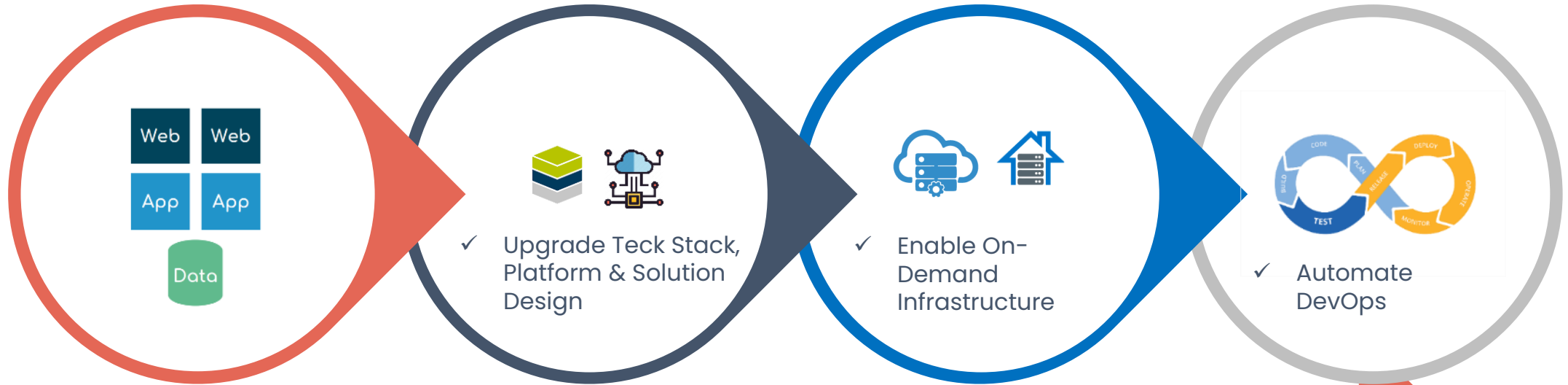
- Provided design services to implement advanced clean design experiences
- Application modernization using revised application architecture and technology stack.
- Centralized Administrations was developed to manage multiple websites and their respective configurations which reflects on regional portals from once place.
- Data Migrations which includes millions of database transactions for migration of personas, jobs, job Applications from Seeker and Employer old applications to new revamped platform.
- Delivered using Agile delivery methodology

Customer Benefits

- Improved scalability, maintainability and application performance.
- Improved UI Design helped Ta3mal to reach to engage partners in existing and upcoming regions
- Reducing overall platform cost as all data and services are not owned by Silatech. Previously Silatech was paying infra cost as well as Annual Cost for services taken from "Bayt".



Typical Modernization Journey



Discovery & Assessment of Existing Legacy Application(s)

Choose Target Tech Stack, Platform and Solution Architecture (Roadmap)

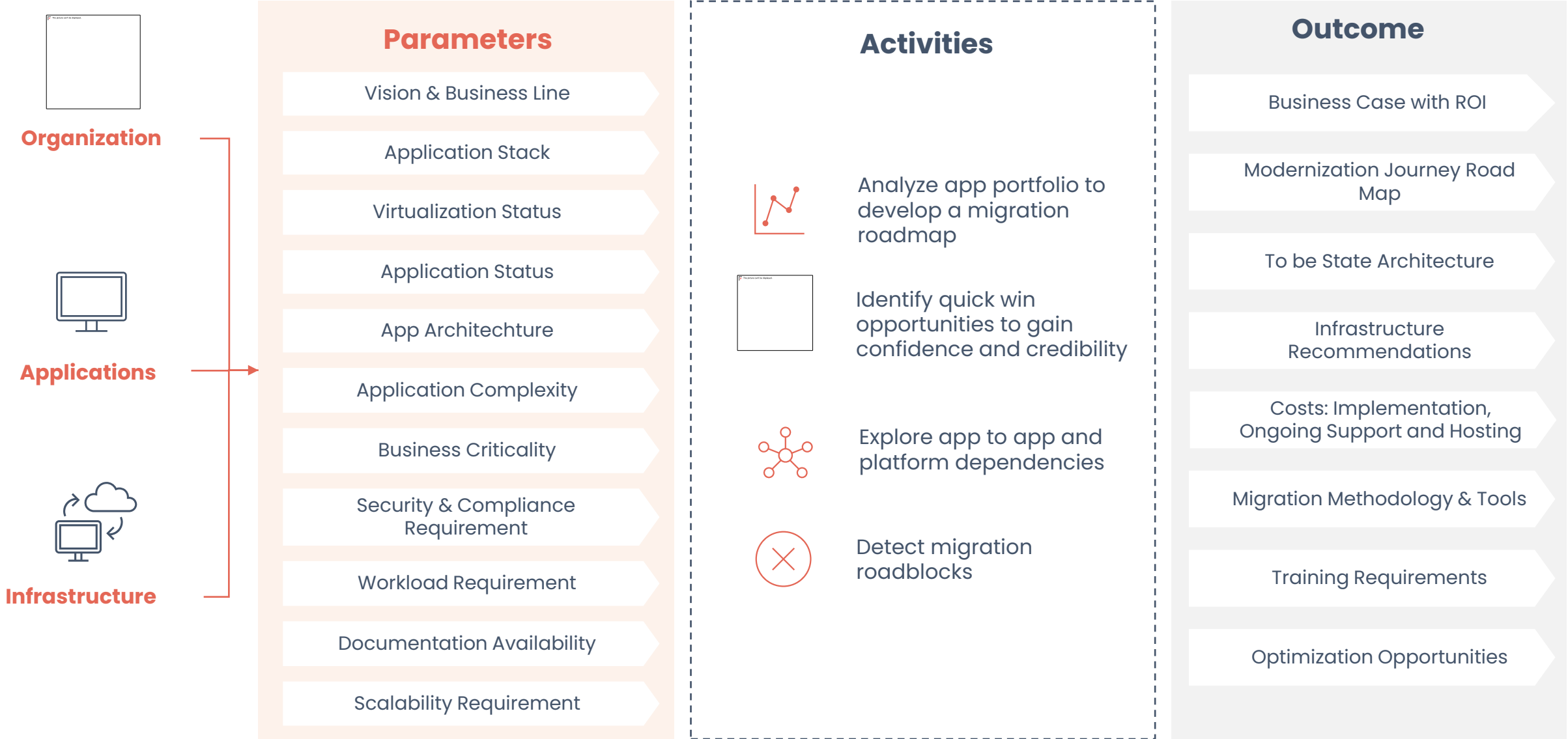
Modernize & Automate the Underlying Infrastructure
(based on platform choice)

Automate the CI/CD & Enforce Governance Controls

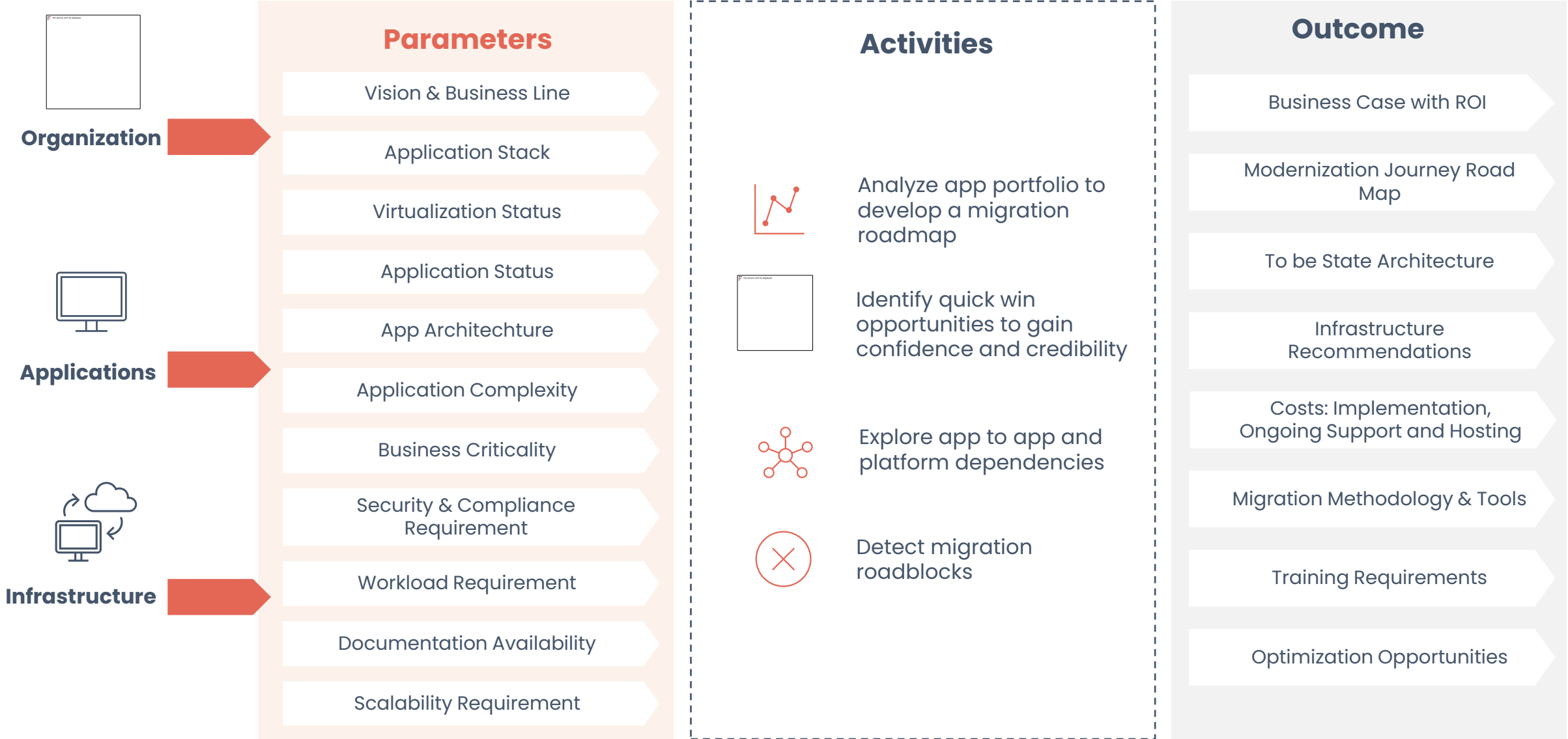
Discovery & Assessment



Discovery and Assessment Framework

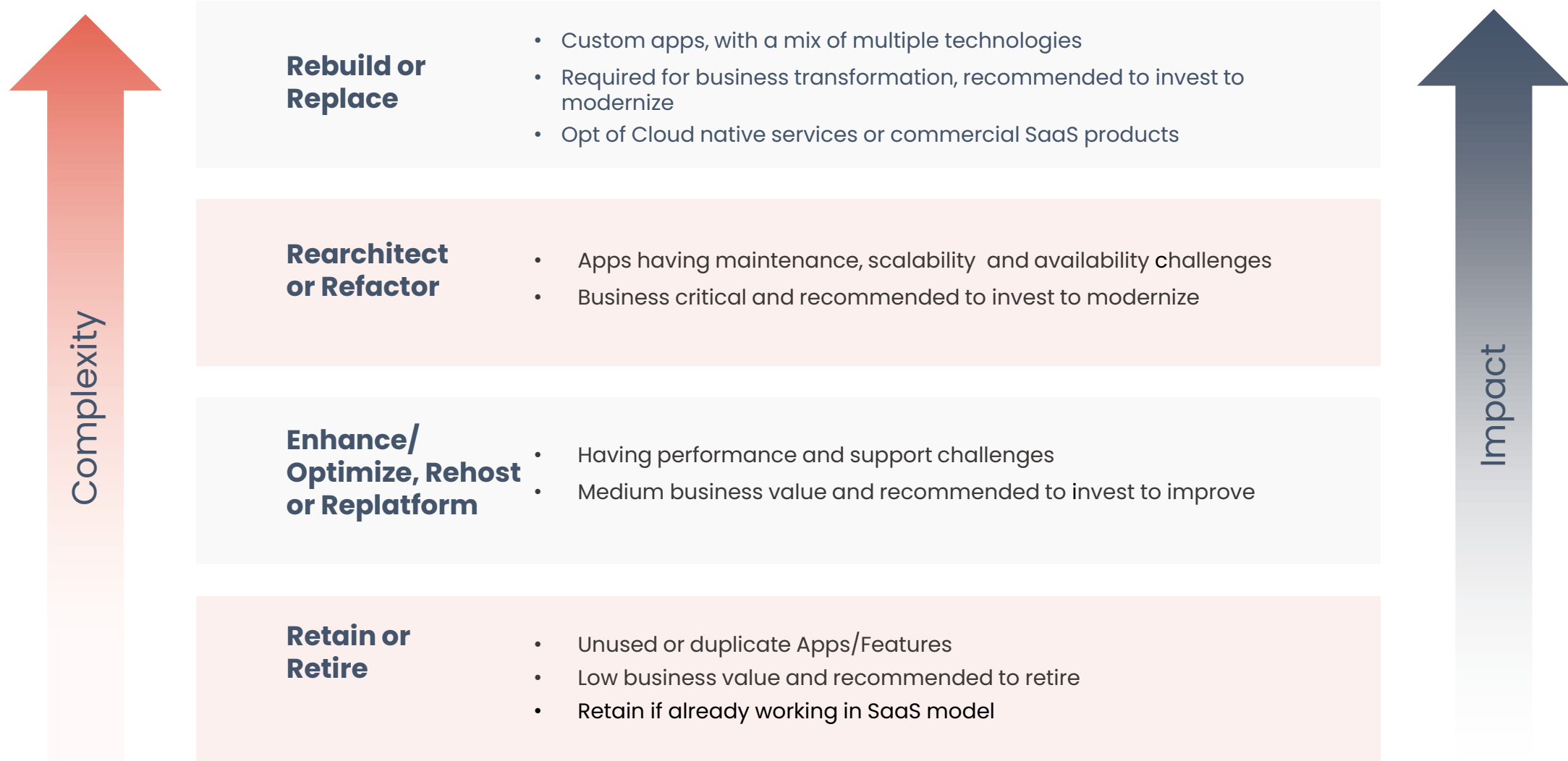


Discovery and Assessment Framework



Choose Transformation Strategy

Post workload dependency mapping phase, determine transformation strategy



Modernization Options



Enhance/Optimize, Rehost or Replatform Apps

Address Apps having performance, stability and platform support challenges

Enhancements & Optimizations Options



App Performance Optimization



Database Performance Optimization



Memory Usage Optimization



Static Objects & Cache Utilization Optimization



App Logs, Network Traffic Analysis & Optimization



UI/UX Enhancements

Rehost & Replatform Options



Lift & Shift

(Address platform support challenges)



Containerize

(Address portability & scalability issues)

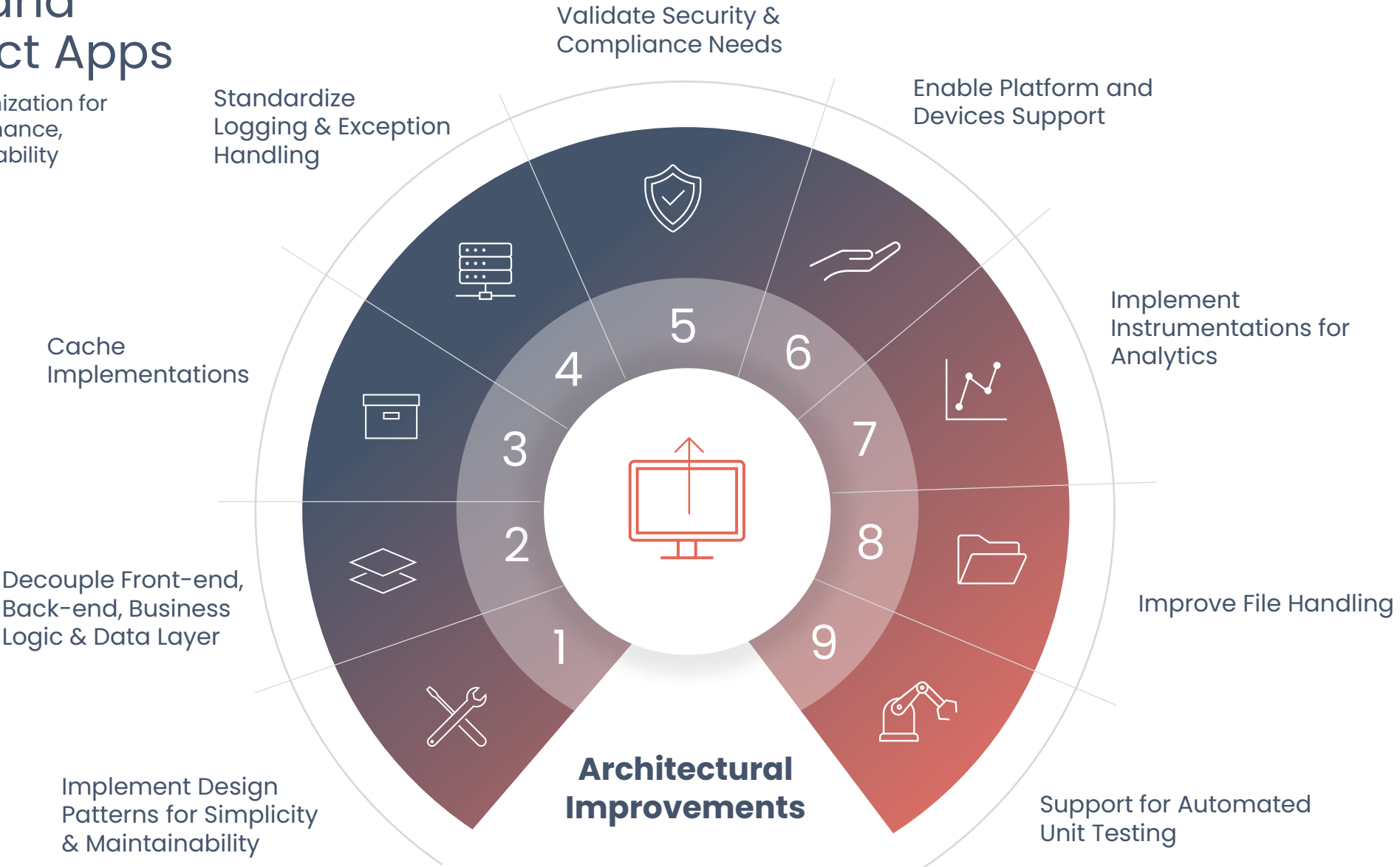


Replatform

(Leverage App Service, SQL Service, Storage services with minimum app changes)

Refactor and Rearchitect Apps

Architectural modernization for Apps having maintenance, scalability and availability challenges



Common Architecture Models

Transform legacy apps using best architecture model for future proof solution

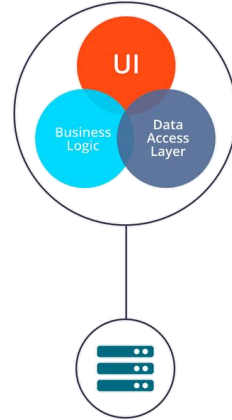
Monolith

Pros:

- Simpler development and deployment
- Fewer cross-cutting concerns
- Better performance

Cons:

- Cumbersome code base
- Difficult upgrades
- Limited agility



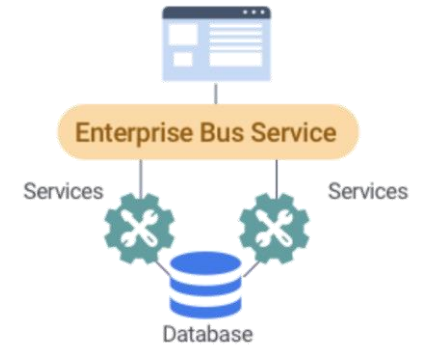
SOA

Pros:

- Reusable services
- Better maintainability
- Parallel Development

Cons:

- Architectural complexity
- Extra overload (Message processing)



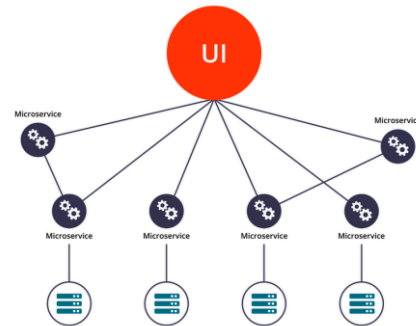
Microservices

Pros:

- Easy to develop, test and deploy
- Increased agility
- Ability to scale horizontally

Cons:

- Complexity
- Cumbersome data consistency and transaction management
- Increased demand for automation



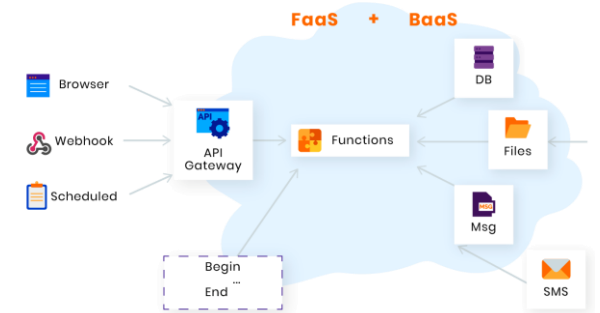
Serverless

Pros:

- Easy to deploy
- Lower costs
- Enhanced scalability

Cons:

- Not for long-term tasks
- Potential vendor lock-in



Your Trusted Technology Partner

Visionet Systems, Inc. has been assisting businesses achieve exceptional results using a wide range of digital technology.

Our diverse range of industry expertise, products, and services have become a trusted one-stop shop for our clients' complete technology needs.

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