

Beyondsoft Smart Ops

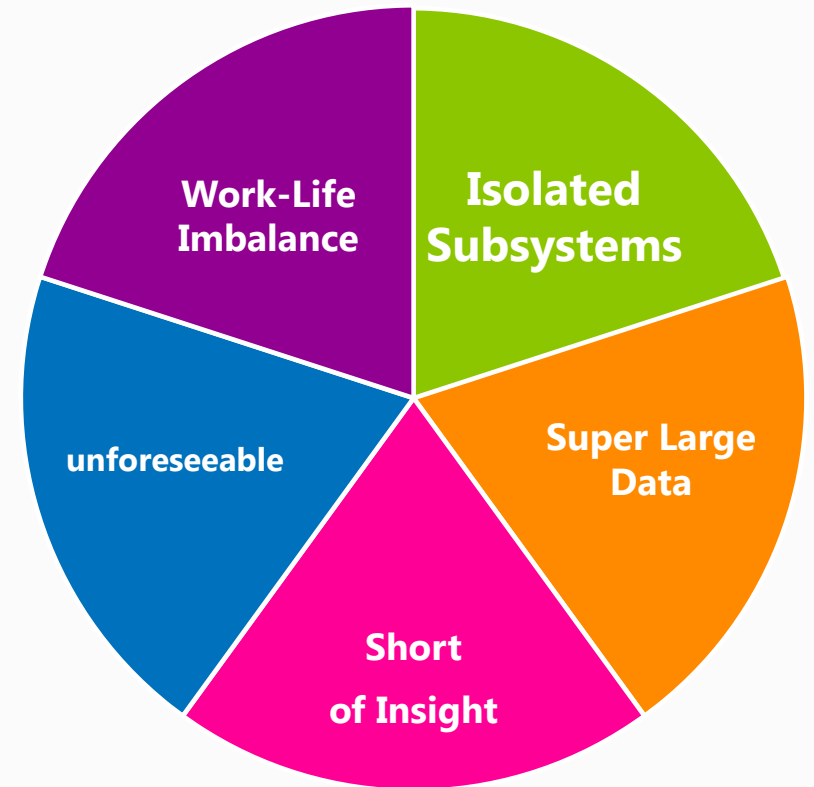
Big Data Solution

Challenges of Ops

Distributive computing is no longer mysterious today because of the booming cloud computing technique. More and more companies are, or thinking about to migrate their services to cloud. However, it is common that some of the cloud services with creative and revolutionary design failed quickly after going on line. One of the major reasons of this phenomenon is because the importance and challenges of service operation was underestimated.

IaaS , PaaS , SaaS , whatever the type it is , the last "S" illustrates their common part – Service. As cloud base services, their capabilities can be extended easily by up scaling or out scaling. However, the complexity of operation work to ensure High Availability and High Reliability of the services, agile service deployment and upgrading, and quick incident detection and mitigation will increase exponentially.

Operation is critical to cloud service. With a smart operation system, you've been at the half-way of building a successful cloud service!



Problems of Traditional Ops

Smart Ops



Business Insight

Provide deeper insight of service and resource status for better management by integration and mining on top data from a variety of sources with different structures.



Intelligent Monitoring

Improve service monitoring quality and efficiency by abstracting patterns of incident and using state tracking. Achieve self-maintained domain knowledge refreshment by leveraging machine learning.



Precision Operation

Data support to operation service optimization and resource usage improvement are provided by accurate data collection and analyze. Precision Operation is ensured through systematical business analysis.

The Smart Ops solution provided by Beyondsoft enables insight of service and resource status, intelligent monitoring, and precision operation. The quality of operation services will be improved by data integration and deeper data mining.

DC Ops

Platform Ops

Live Site

IT ES

Smart Ops

Potential Customers



IaaS Cloud DC Ops



PaaS Multi-tenants Platform Ops

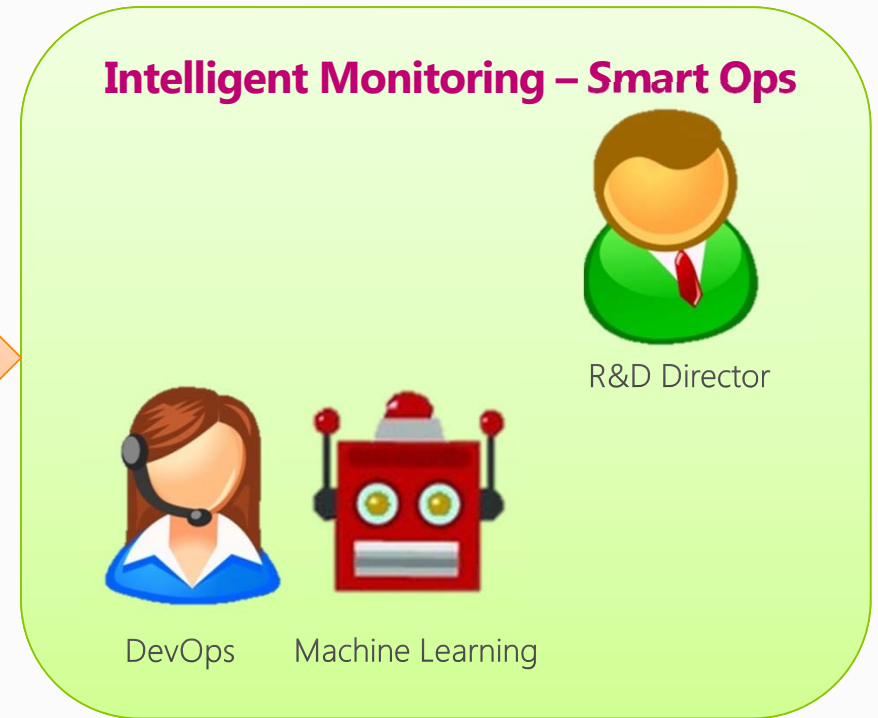
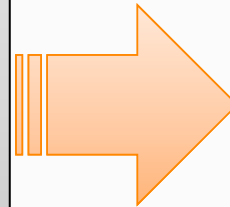
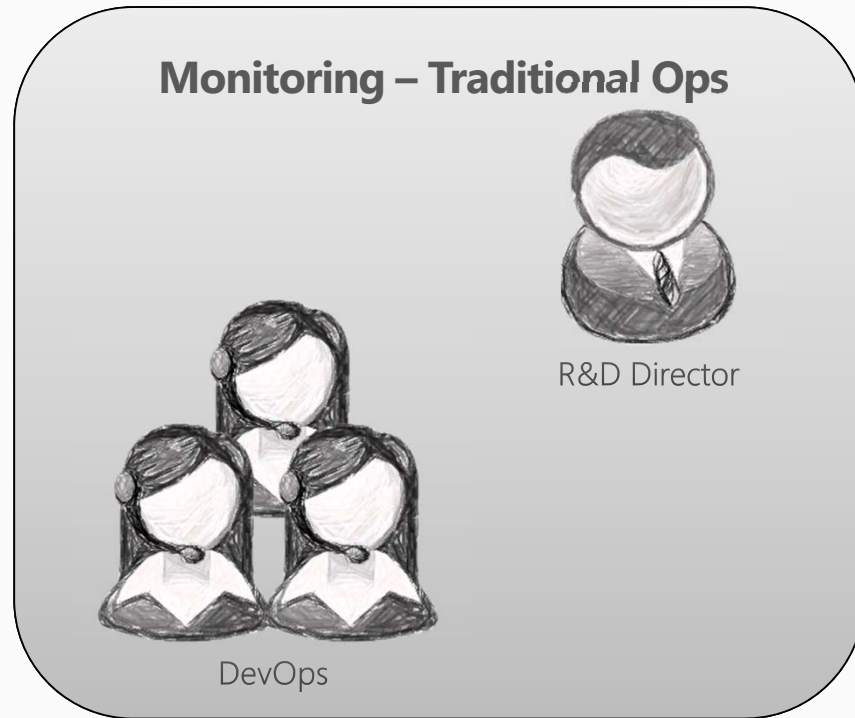


SaaS Live-site Ops



On-premise DC & IT ES

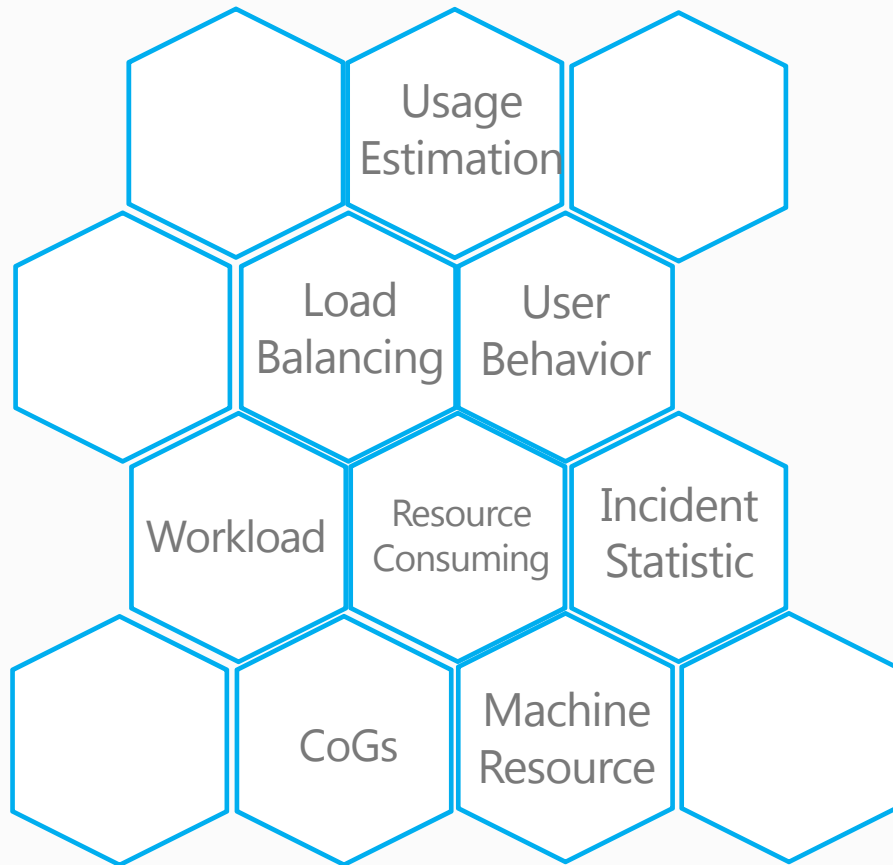
Scenario– Intelligent Monitoring for SaaS



Repeat manual operation
Low performance, low customer satisfaction
Broken domain knowledge due to attrition

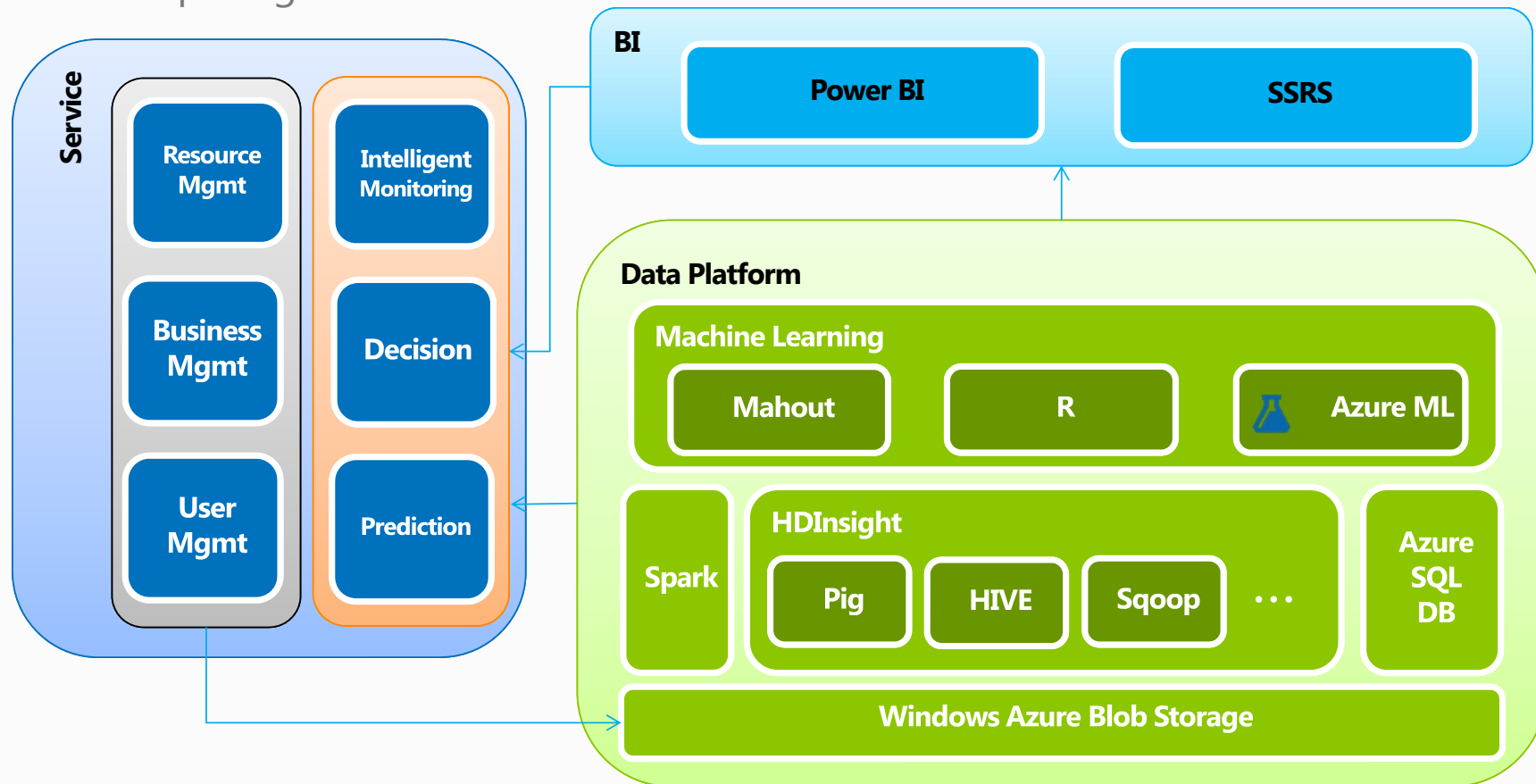
Lower pressure with automated handling
High performance, High customer satisfaction
Machine Learning empowered knowledge refreshing. Less human dependency

Scenario – Precise Operation for SaaS



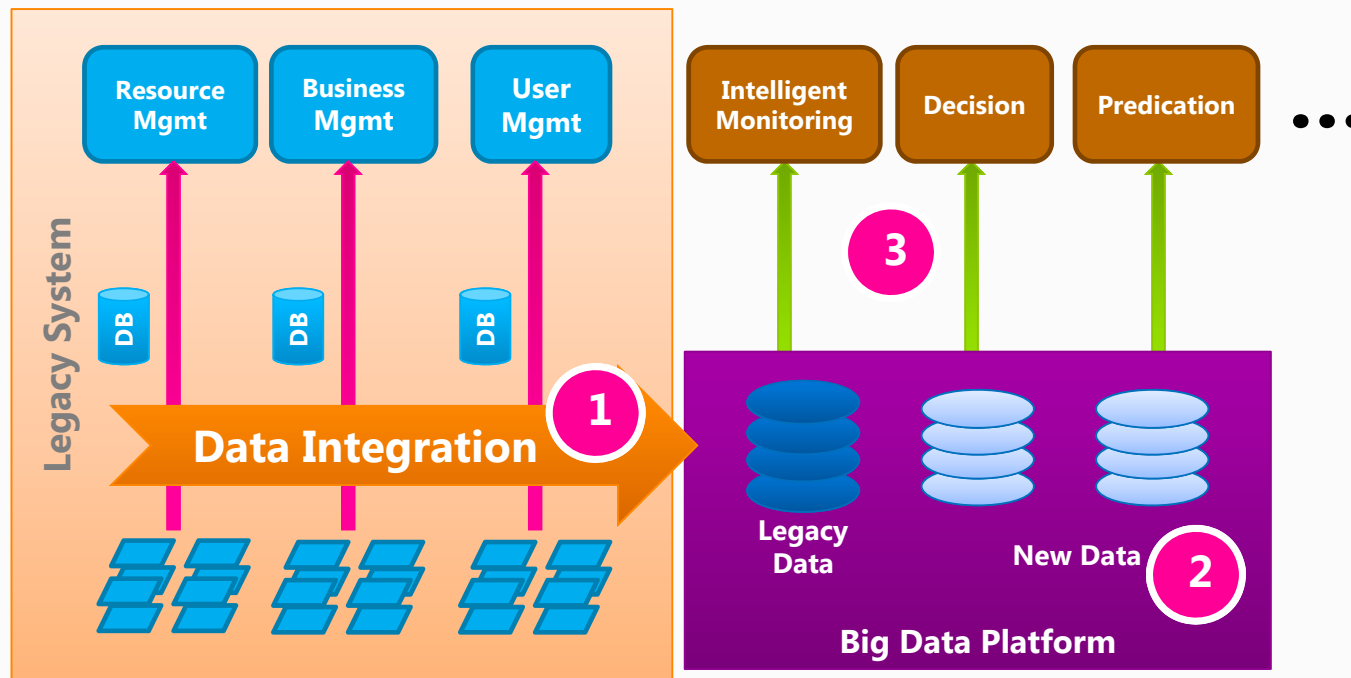
Architect of the Solution- HDInsight

Verify the new business model with the lowest cost in the shortest time by leveraging cloud computing.



Seamless Migration

Three steps migrate to Smart Ops



1. High-dimensional data analysis through data integration
2. Raising dimension by integrating legacy data with new data
3. Enable data driven business insight on top of deeper data mining

Case Study – Testing Ops

- Convert from event driven to data driven problem handling in Testing Ops by analyzing on top of data integrated from multiple data sources

**Data
Integration**

- Enabled automated-incident analyzing through combining structured and unstructured data, which improved performance more than 5 times.

**Automated
Analyze**

- More precise resource balancing and lower operation cost through efficient data collection and generalized resource consuming patterns

**Resource
Coordination**

- Provide data support to decision making by leveraging data to predicate potential resource shortage and risks of Ops.

**Decision
Support**



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Thank you !

