Azure Service Use Cases

Advantech Embedded IoT
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Advantech Azure Services

Cost/Benefit Optimization

Monthly billing consumption report

Budget planning for consumption optimization

Proactive billing review and suggestion offering

Operational Maintenance

Azure security setting and comprehensive consideration

Assist for hosting Azure cloud service

Proactive assistance for troubleshooting

Performance monitoring

Real-time alarm/ notification on event tracking

Establish high availability on Azure

Security Guiding

Account high security and authorization management

Azure Security Center deployment and analyzing

Offer Acronis backup solution and disaster recovery.

Offer McAfee to protect your instance from hacker

Offering "weakness scan", "penetration testing" services

Professional Service

Azure-certified architect support on assessment

Deployment with technical guidance

Azure environment security and permission optimization analysis

Regular interview with customer, tracking the requirements

Offer customized education and training courses

Assist customer with publishing solution to Azure App Source

Assist customer with getting certification for IoT Plug and Play/ IoT Edge

Offer variety estimated tool (VM spec. selection, migration estimation tool)

Deployment

Based on demand to develop the solution with Azure service

Professional team / architect hands on training

Cycling verification to optimize the use experience

IoT solution construction and execution

Advantech WISE-DeviceOn solution deployment

Customized development service on IoT solutions

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Cost/Benefit Management

Challenges:

The client was unable to control their monthly consumption so was concerned about over-budget.

- The client lacked efficient consumption monitoring so was not comfortable to scale out their cloud service

Solutions:

Advantech instructed the client to use <u>Azure Cost Management</u> solution, and the solution allowed the client to better control their spending and optimize their cost.

- Through our systematic billing process, we helped the client to realize real-time monitoring of their cloud consumption by resource group via a visualized dashboard

- The solution can send cloud spend alert when the consumption is over client's threshold, and automatically turn on/off non-continuous cloud services to save costs

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Operational Maintenance

Challenges:

A well-known Canadian hospital needed recovery server for their patient data. The data was so large that their local disaster recovery server was no longer sufficient in both performance and storage.

- It wasn't easy for their local server to meet the Canadian medical compliance PHIPA.
- Cost to build extra local servers was pretty high

Solutions:

Advantech assisted in <u>setting up a disaster recovery database on Azure</u>, which helped to save around 50% of database construction cost.

- Without upfront cost in building on-premises servers, the hospital reduced TCO by nearly 50%

- Promptly built up a cloud system to replicate thousands of patient data

- Azure offers the most comprehensive compliance coverage that helped hospital meet PHIPA compliance

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Deployment

Challenges:

The factory was suffered from low production capacity due to unexpected machine downtime or supplies damage.

- Workers were not capable to manage their own tasks, resulting in low productivity
- The factory manager lacked an efficient way to manage factories in multiple regions.

Solutions:

Base on our expertise in IoT applications, Advantech assigned cloud architects to offer technical support and consulting in Azure architecture design.

- Leveraged WISE-DeviceOn to monitor device status and quickly diagnose malfunction to reduce downtime
- Workers can receive real-time notification and alerts about device status through their portable devices
- All kinds of data was stored to Azure via IoT Hub, and this allowed the client to master the product life cycle management through data analysis

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