How Microsoft IT migrated its entire SAP landscape to Azure

Elke Bregler & Hans Reutter

6/7/2018
# SAP Applications At Microsoft – Business View

<table>
<thead>
<tr>
<th>Category</th>
<th>SAP Applications</th>
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<tbody>
<tr>
<td><strong>HR</strong></td>
<td>Personnel Admin, Benefits, Org Mgt, Talent Mgt, Time Mgt, Payroll, Recruiting</td>
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<tr>
<td><strong>Finance</strong></td>
<td>Accounting, Controlling, Treasury, Project Systems, Financial Svcs, Real Estate, Corp Finance, In-House Cash, Rev Rec, Trade, Customs</td>
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<td><strong>SCM</strong></td>
<td>Sales and Distribution, Materials Mgt, Logistics, Logistics Execution, Demand Planning, Event Mgt, Supply Network Planning</td>
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<td><strong>Commerce</strong></td>
<td>Volume Licensing Bedrock, Next Gen VL, OEM, Universal Store, Convergent Charging &amp; Invoicing, Contract Accounting, Rating</td>
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<td><strong>Enterprise Services</strong></td>
<td>Sales and Distribution, Finances</td>
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<td><strong>SAP Platform</strong></td>
<td>Solution Manager SOLMAN, Business Objects BOBJ/DS, Adobe Document Services ADS, XI/PI</td>
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<td><strong>Learning &amp; Succession Success Factors</strong></td>
<td>Duet for CIM DUET, Customer Finance Mgmt CFM, Integrated Business Planning IBP, Sourcing &amp; Dir. Network Ariba, Expense Mgmt Concur</td>
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Why Migrate To Azure?

Cost
• Right-sizing lowers up-front system cost
• Tight-sizing for close correlation of system sizes with service demands
• Ability to “snooze” systems during periods of non-use

Agility
• Enables quick creation of sand boxes & proof of concept systems
• Allows on-demand infrastructure

Reliability
• Azure has better availability and reliability over on-premise

Security
• More certifications than any other provider
• Commercial strength security

“Walking the Walk”
Azure Migration Strategy

Horizontal Strategy

• Migrate by system type (sandbox, development, test, DR, production)
• Start with low risk sandbox and development systems
• Establish processes and adjust as needed as migration covers test, DR and finally production systems
• Drives: faster migration of a larger number of systems and servers

Vertical Strategy

• Migrate by SAP application / business functionality
• Cherry-pick lower risk SAP application (low business impact in case of issues)
• Move to higher-value SAP apps with bigger business impact
• Drives: faster migration of production systems, thus faster learnings
# Microsoft SAP Landscape – June 2018

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<th>Prod.</th>
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$\texttt{Z^3} = \text{Snoozed}$
Lessons Learned

• Individual SAP Systems need to move as one (DB, App Servers, Central Instance all at the same time).

• Be mindful of real time latency-critical traffic between SAP Systems – they may have to move as one.

• Be mindful of real time latency-critical traffic between SAP Systems and up/down-stream applications & services – they may have to move as one.

• Determine Azure region strategy before moving, including BCDR.

• Ensure SAP bolt-on systems (tax calculation engines etc.) are Azure certified or risks are mitigated through extensive testing

• Archive and compress databases.
SAP Azure Cost Optimization

Pre Deployment:
• Aggressive right-sizing – you can always adjust up later
• System rationalization – now is the time to retire systems
• Database compression and archiving – saves money and shortens deployment time

Post Deployment:
• Tight-sizing – adjusting # of application servers based on demand
• Aggressive snoozing – especially for sandboxes, dev and test systems
• Monitor costs and usage levels
• Get creative!
Why Pick Microsoft Azure Over Other Clouds?

Strongest diverse portfolio of services: SaaS, PaaS, IaaS

Market leading support for SAP workloads: SAP HANA OLAP up to 60TBs, OLTP up to 20 TBs, supports a variety of databases, Windows and Linux

On-premise to cloud: seamless integration, migration, support for hybrid strategies

World-wide region coverage, including Europe, China etc.

Dogfooding: Microsoft is the only cloud vendor that runs their core business on SAP on their own cloud

What is SAP IT doing?