

About me

- Global Lead Cloud Platform at SoftwareONE
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Agenda

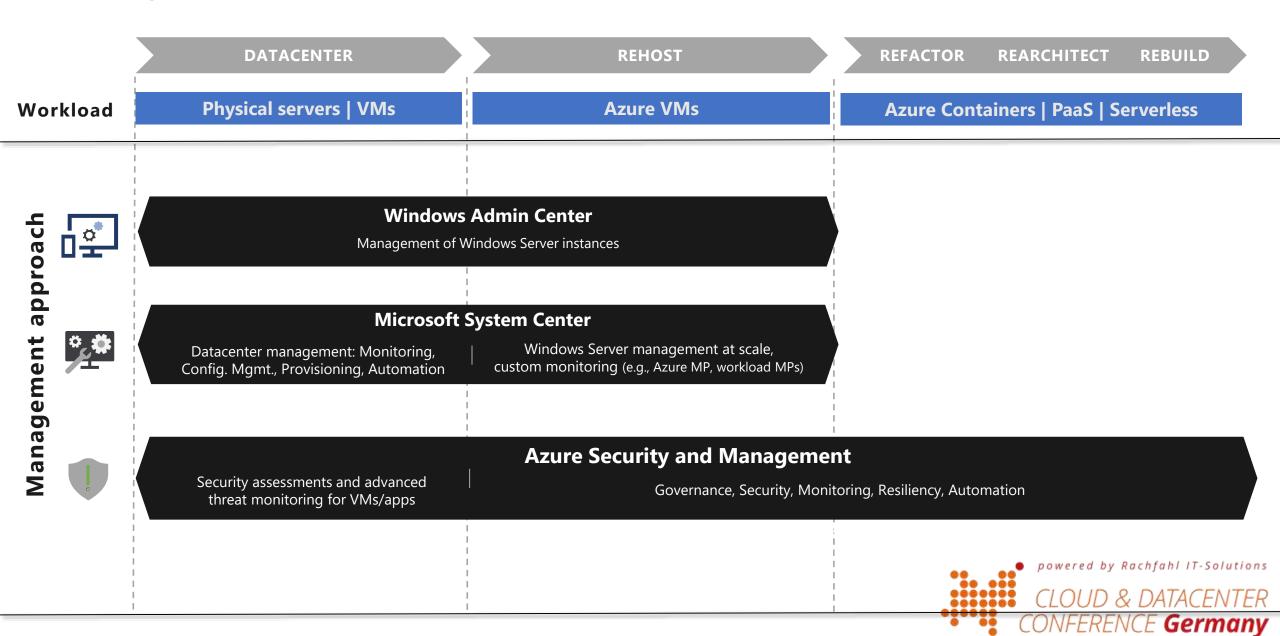
- System Center Status Quo
- SCVMM
- SCOM
- SCDPM
- SCO / SCSM
- Conclusion



System Center - Status Quo



System Center - Status Quo



System Center - Status Quo



First choice for datacenter management



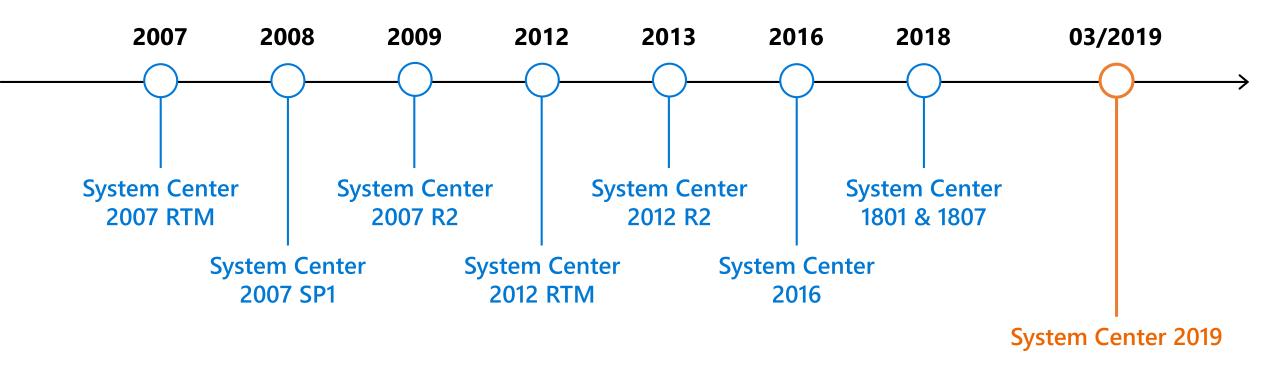
Light up management for Windows Server vNext



Integration with Azure



System Center - Journey





System Center - Overview

Provision, deploy

Provision fabric, deploy and manage VMs, and deploy multi-tier apps



Configure

Configure, patch and update clients and servers



Monitor

Monitor physical, virtual and cloud infrastructure and workloads in real time



Automate

Automate management tasks using graphical and scripting tools



Protect

Backup private clouds, physical machines, clients, and server applications



Self-service

IT process management and self-service



SM



System Center - Releases

Long-Term Servicing Channel (LTSC)

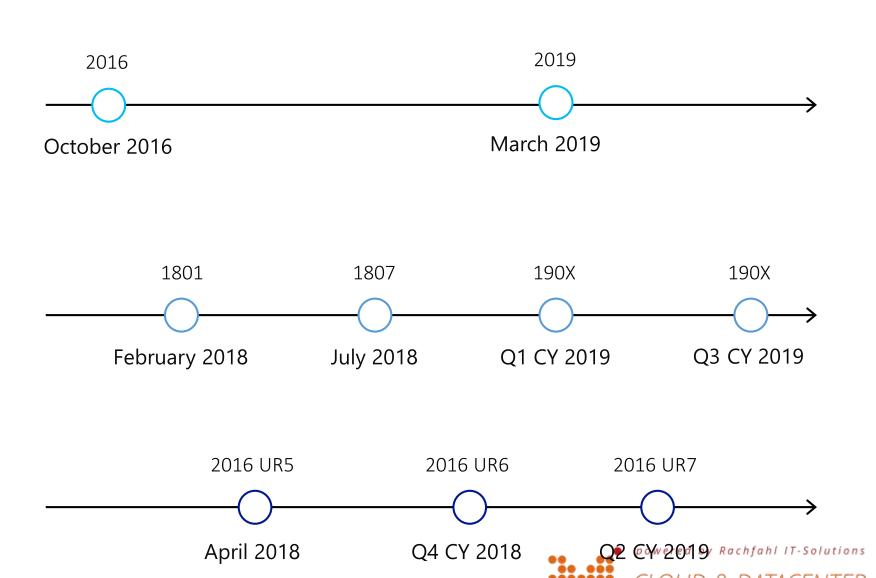
- 2–3 years vNext
- 5 years mainstream support +5 years extended support
- Focus on Windows Server LTSC support

Semi-Annual Channel (SAC) releases

- Every 6 months
- 18 months support
- New features requested by customers

2016 Update Rollups (UR) for 2016 LTSC

- Every 6 months
- Bug fix releases



IFERENCE **Germany**

System Center - Releases

Long-Term Servicing Channel (LTSC)

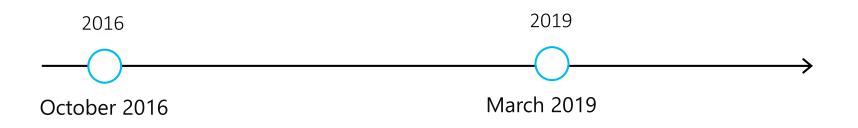
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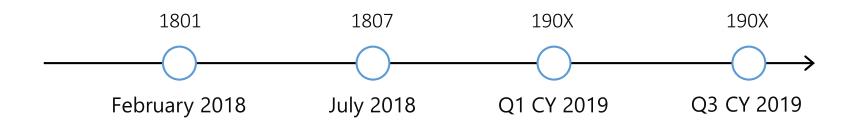
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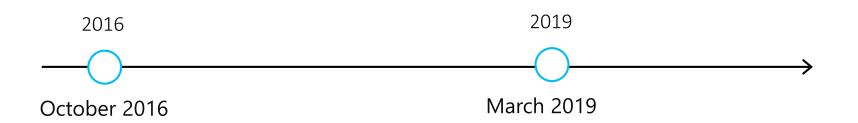


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System Center - Releases

Long-Term Servicing Channel (LTSC)

- 2–3 years vNext
- 5 years mainstream support +5 years extended support
- Focus on Windows Server LTSC support



Most of our customers use Long Term Servicing Channel (LTSC) like System Center 2016 to run their data center infrastructures. LTSC provides five years of mainstream support and five years of extended support – with Update Rollups (UR) providing the incremental fixes and updates. From talking to customers, we learned that LTSC works better for most System Center deployments as the update cycles are longer and more stable.

Based on the learnings, we will start to focus our resources on innovation plans for System Center in LTSC releases and stop SAC releases. System Center 2019 will support upgrades from two prior SAC releases so customers running System Center 1801 or System Center 1807 will be able to upgrade to System Center 2019; just as System Center 2016 can be upgraded to System Center 2019.



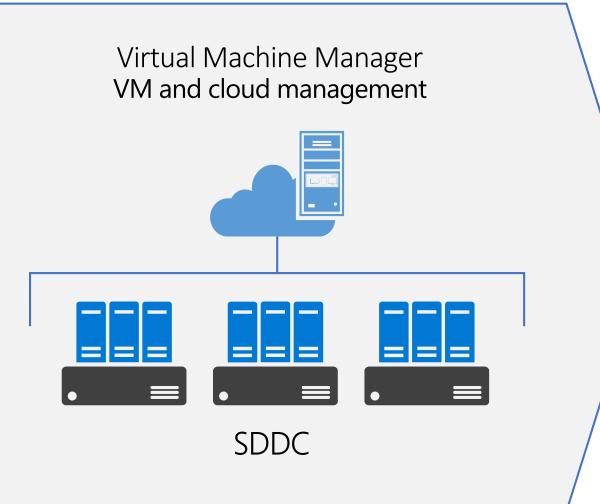
DEMO - System Center Attention



Virtual Machine Manager



VMM 2019





Compute

Support V2V migration from VMWare 6.5, Nested Virtualization



Storage

Upgrade and patching of S2D clusters, Storage Optimization, Storage Health



Networking

Physical network (L2) info for Hyper-V hosts, L3 gateway support, encrypted networks, floating IP for guest clusters



Security

New VM administrator role



CSVs run out of space...

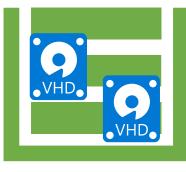






Free storage space:



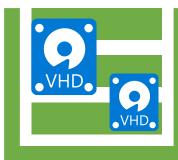


CSV1



Free storage space:

40 GB



CSV2



Free storage space:

20 GB





Optimizing Storage space





Delegated Admin

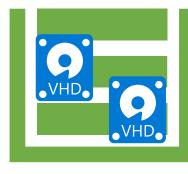
Can set free storage threshold for VHD migration

Example: 5GB



Free storage space:



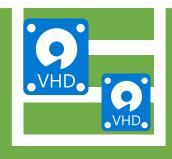


CSV1



Free storage space:

40 GB



CSV2



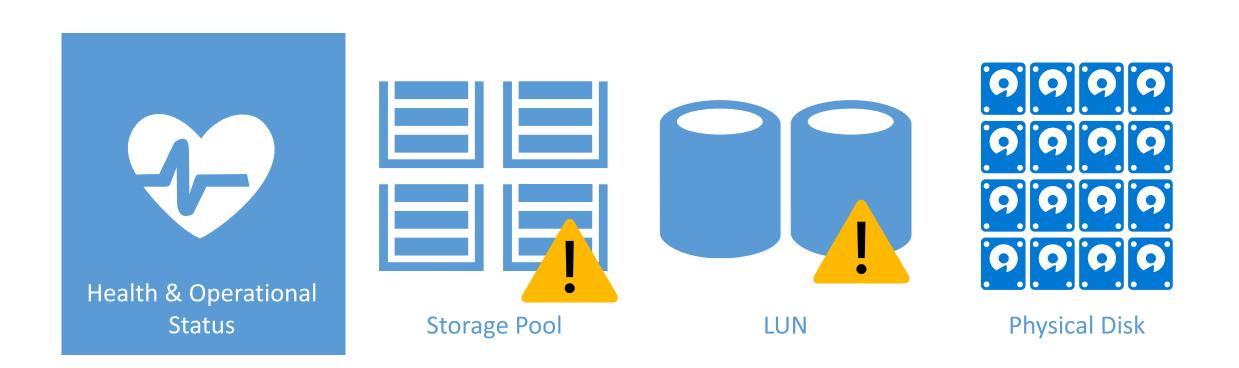
Free storage space:

20 GB





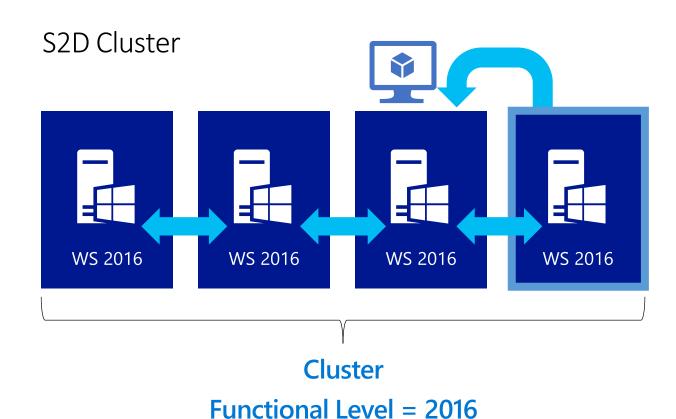
Storage health and operational status



Storage health and operational states provide insights to troubleshoot



Upgrading storage spaces direct cluster



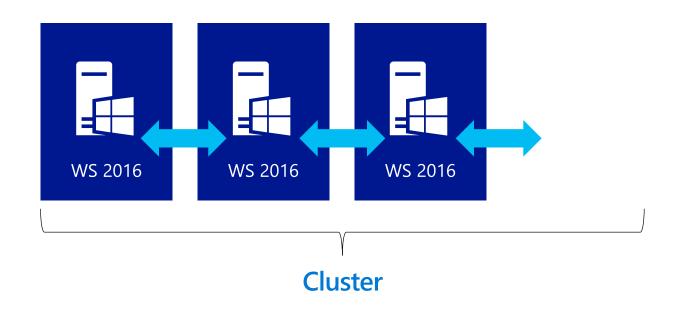


Clean OS installation



Upgrading storage spaces direct cluster

S2D Cluster



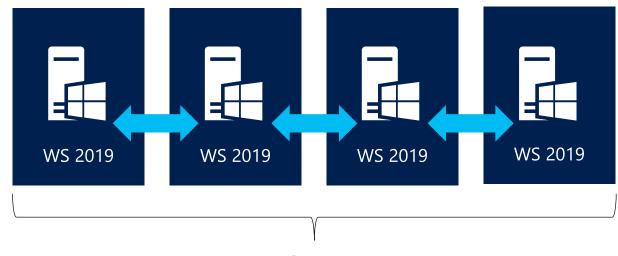
Functional Level = 2016





Upgrading storage spaces direct cluster

S2D Cluster



Cluster

Functional Level = 2019

Effortless

VMM orchestrates the entire workflow

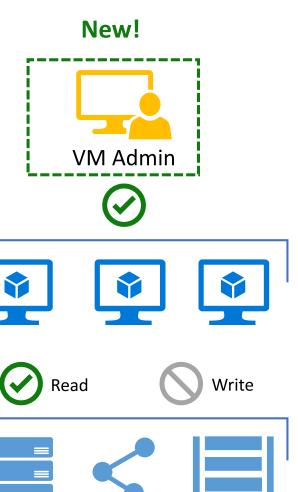
Seamless

Zero downtime for workloads



VMM Roles





Network

Storage

Compute

Compute



Storage

Tenant Admin

Network

Gen 2 V2V conversion from ESXi to Hyper-V*



ESXi Host (Ver 6.5 or older)



VM with UEFI firmware Configuration



Convert Virtual Machine Wizard

Auto detect source VM Firmware Configuration



Select default Hyper-V VM generation



Default enable secure boot option if EFI firmware







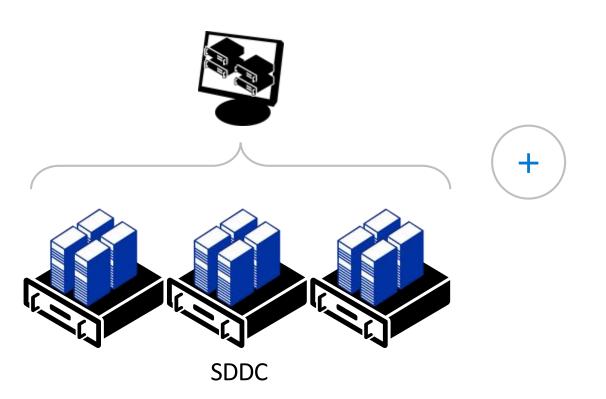
Gen-2 VM

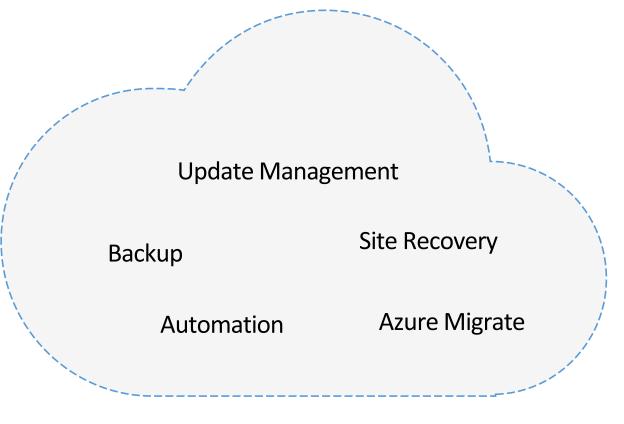


VMM and CLOUD better together

Virtual Machine Manager VM & cloud management









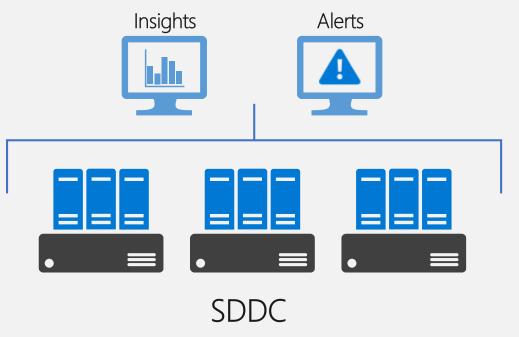
Operations Manager



SCOM 2019

Operations Manager

Monitoring infrastructure resources, workloads & applications





Hybrid

Integration with Azure Service Map and Enhancements to Azure MP



Monitoring Experience

HTML5 dashboards, Linux log file monitoring, MP discoverability for 3rd party MPs & Linux workloads, enhanced Notifications, better Alerts management



Improved Fundamentals

No more Silverlight dependencies, Support for SQL server 2017, Disable interactive logon, In-place upgrade



Monitoring Surface ++

Monitor Windows Server 2019, latest application servers, latest Linux distros and VSAE support for Visual studio 2017



HTML5 dashboards















Notification and subscription enhancement



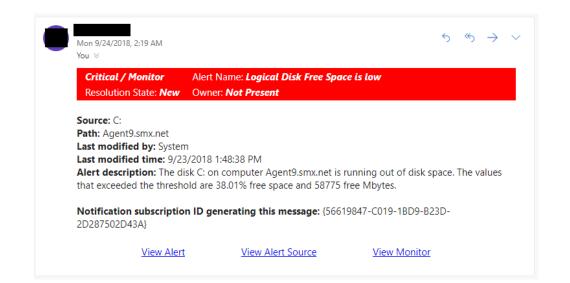
Enhanced criteria builder with ability to perform "OR" and "Exclude" operations

Rich HTML email notification

Flexibility to customize HTML content

Easy access to relevant information about alert, alert source and rule/monitor

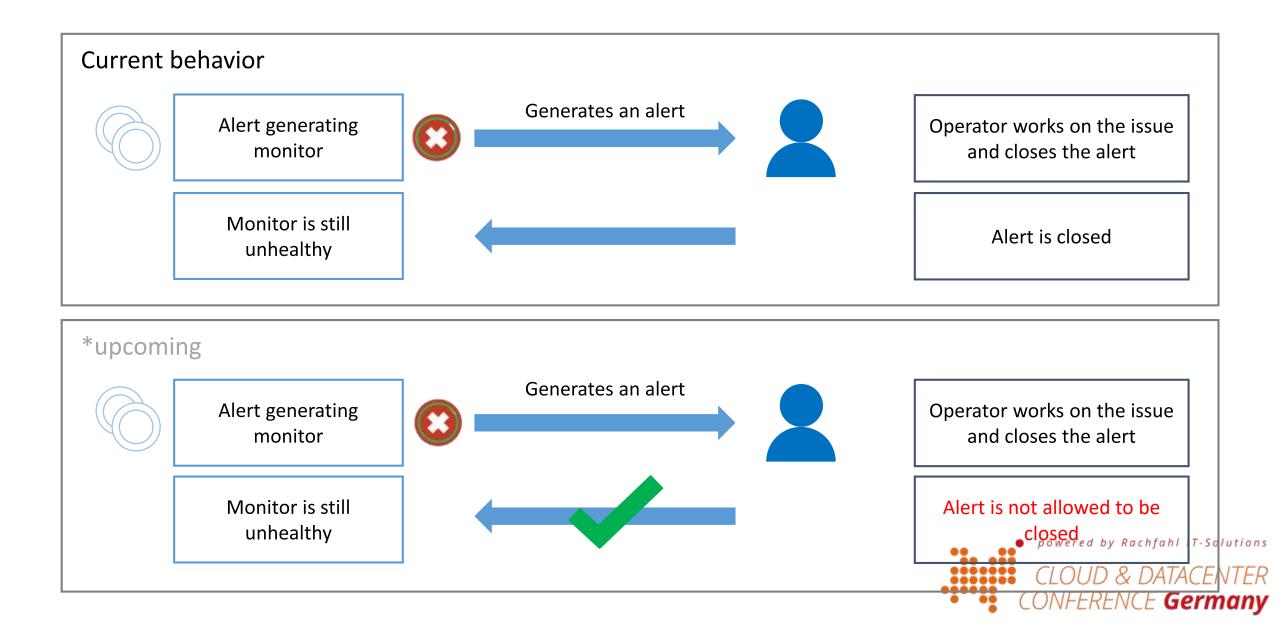
Trouble shoot / root cause the issue faster



Remediate issue or resolve alert from the alerts details page



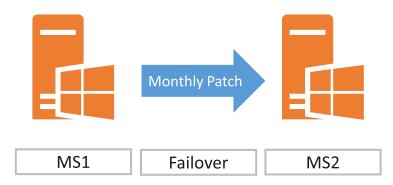
Enhanced alert management for Monitors



Linux/UNIX monitoring enhancements

Enhanced Linux/UNIX alerting in failover scenarios

Resource Pool



Updates & recommendations for Linux workloads

Updates and Recommendations (18) Status Company 📆 CHS Suite (by Calcomp) CalCom Not installed 📆 Defender 2016 Microsoft Not installed Distributed Transaction Coordinator 2016 Microsoft Not installed IBM Domino (by NiCE) NICE IT Management Not installed IIS 2016 Microsoft Not installed JBoss 7 Microsoft Not installed Management Packs - Updates and Recomm Microsoft Update available McAfee (by Infront) Infront Consulting Gr Not installed Oracle (by OpsLogix) Not installed OpsLogix RightFax (by Infront) Infront Consulting Gr Not installed SCCM 2012 (by Savision) Savision Not installed Skype for Business Server 2015 (by Savision) Savision Not installed SQL Server 2016 Analysis Services Microsoft Partially installed 📆 SQL Server 2016 Reporting Services (Native -Partially installed 📆 System Center 2012 - Configuration Manage Microsoft Not installed Not installed 📆 Tomcat 7 Microsoft 📆 Windows 10 Microsoft Update available 📆 Windows 8 Microsoft Update available

Linux Log file monitoring

Monitor any data source

Application Logs

Java/Ruby/PHP

Cloud Services

Azure

Network Protocols

HTTP/TCP/ Syslog

Others

Docker/DSTAT/ MySQL

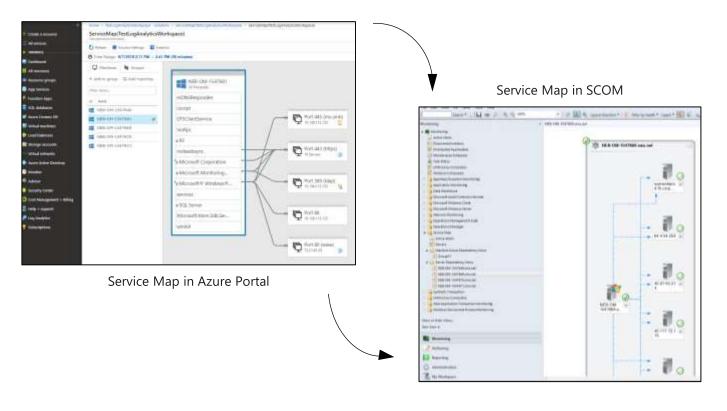
No duplicate alerts

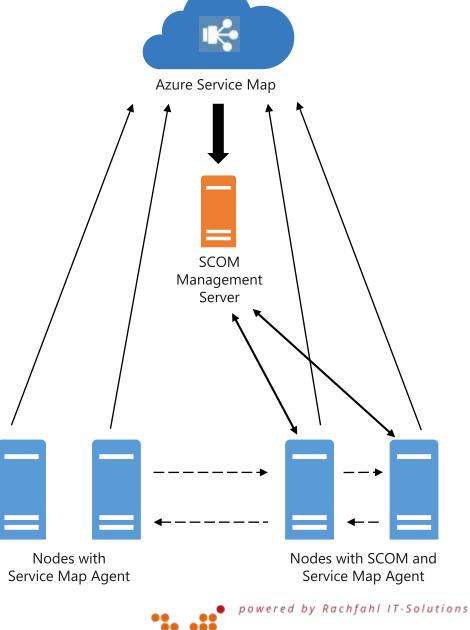


Service Map integration

Automatically discover and map servers and their dependencies in real time with minimal configuration

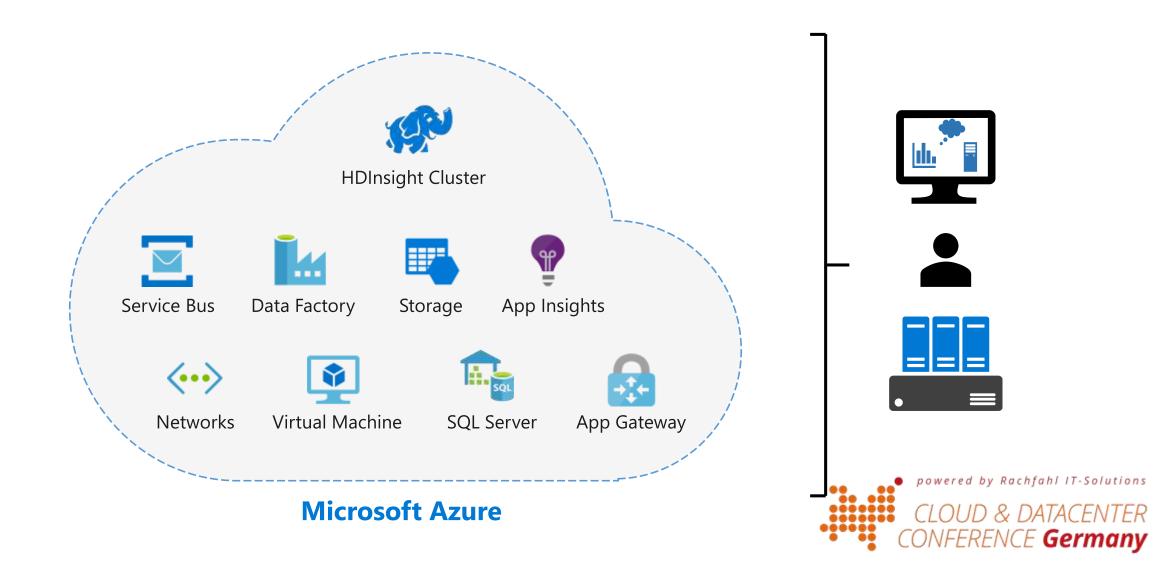
Leverage SCOM monitoring for overlaying health information on the Service Map







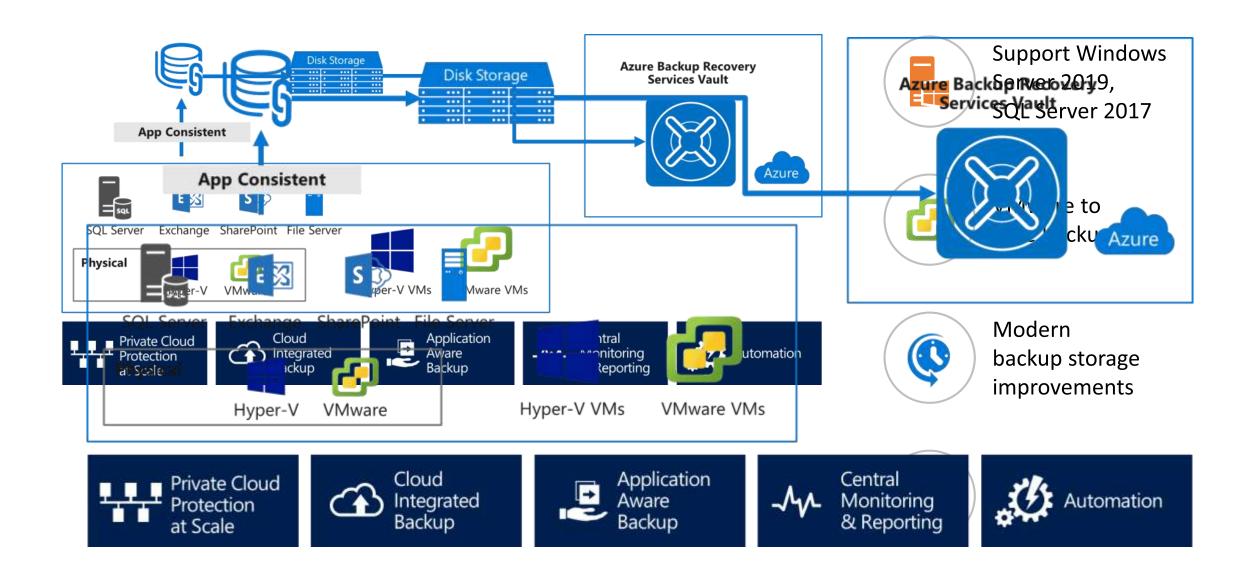
Azure Management Pack for SCOM



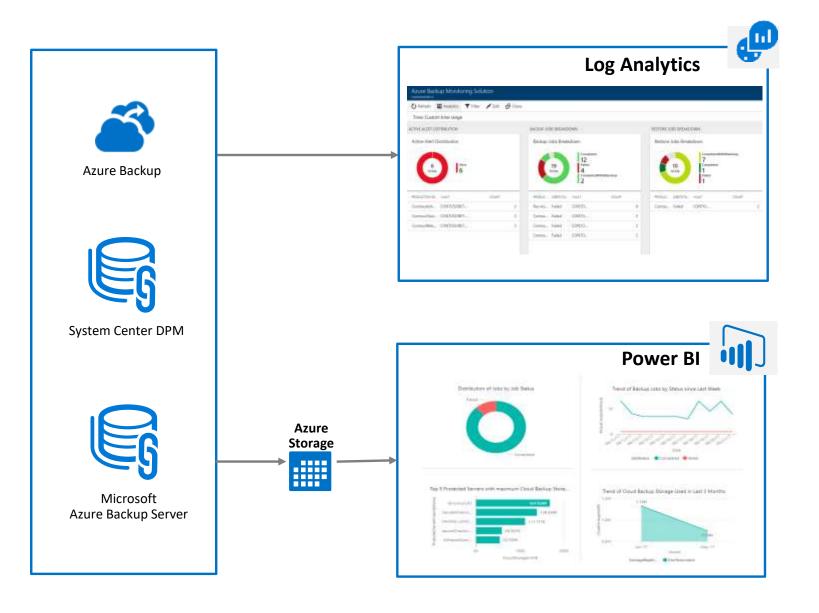
Data Protection Manager



DPM 2019



Rich Reporting and Monitoring



Custom Queries

ITSM Integration

No infrastructure

Enterprise Wide

Custom Reports

Cross tenant support



Orchestrator und Service Manager



Orchestrator



Orchestrator 2019

- · 64 bit support
- · PowerShell v4 +
- · SQL 2017
- · Support for TLS 1.2



Process Automation

Orchestrate processes using graphical, PowerShell, and Python runbooks



Configuration Management

Collect inventory

Track changes

Configure desired state



Update Management

Assess compliance

Schedule update installation



Azure Functions

Event driven, compute on-demand, events occurring in Azure, third-party, or on-premise systems



Heterogenous

Windows & Linux

Azure and on-premises



Service Manager



Service Manager 2019

- · Improved UI responsiveness
- · AD connector improvement
- · SQL 2017
- · Support for TLS 1.2



Service Catalog

Build and deliver turnkey applications to your enterprise IT customers



Azure Policy

Enable security and management at scale for Azure resources



Azure Blueprint



Ticketing

Partner-enabled solutions



Conclusion



Conclusion

- System Center ist (noch) da
- On-Premises Management im Fokus
- Erweiterung um Hybrid / Cloud Szenarien im Fokus
- VMM, OM, DPM stehen im Fokus
- Orchestrator → Automation → LogicApps → Functions
- Service Manager → 3rd Party



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