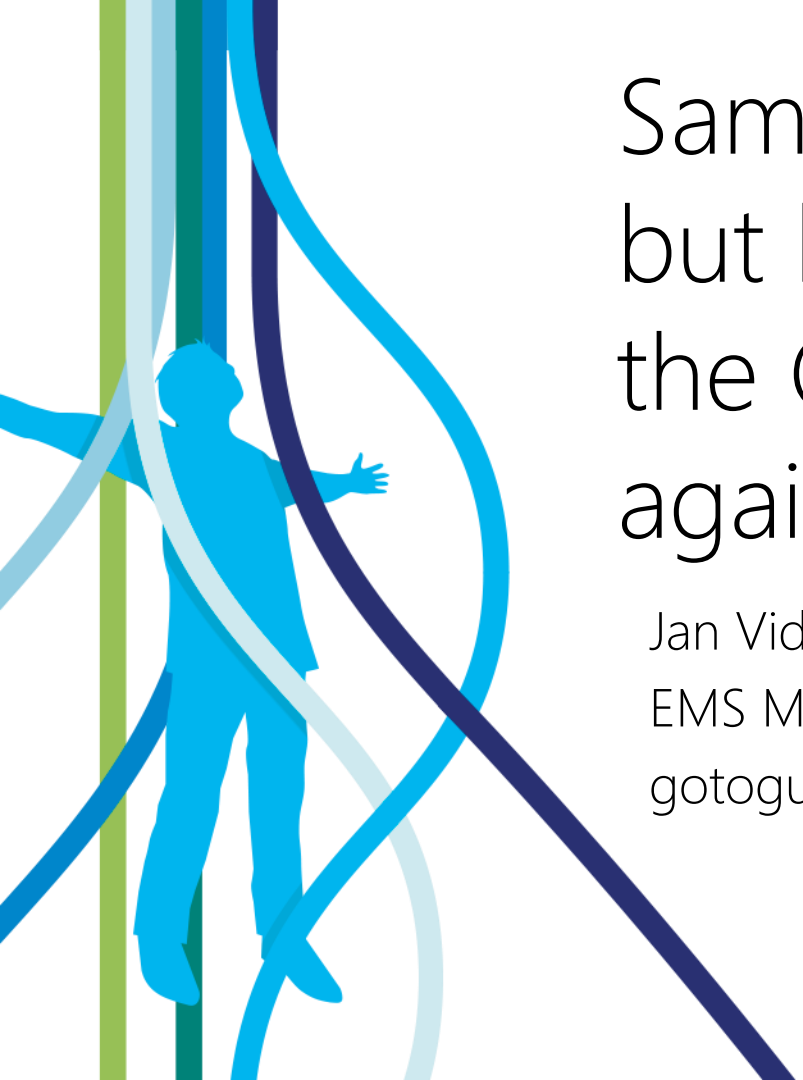


Same old System Center.. but how can we hook up the Cloud and make it hot again!

Jan Vidar Elven

EMS MVP | Skill

gotoguy.blog | @JanVidarElven

Samuel Erskine

CDM MVP | ITProcessed

itprocessed.com | @SamErskine

Experts Live Europe

In Todays Session

State of System Center 2019

Hybrid Management Scenarios

Cloud Connected Monitoring

Service Management in a Modern World

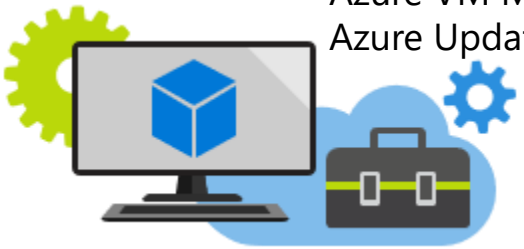
System Center 2019

Operations Manager

Azure Monitor

Virtual Machine Manager

Azure VM Mgmt
Azure Update Mgmt



Configuration Manager

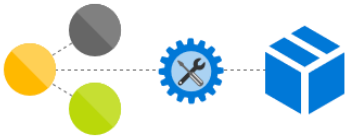
CMG
Desktop Analytics
Log Analytics

Service Manager

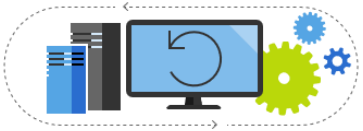
ITSM Connector

Orchestrator

Service Management Automation



Data Protection Manager



Service Provider Foundation

Modern IT footprint spans multiple environments

On-premises datacenter

Remote office/branch office

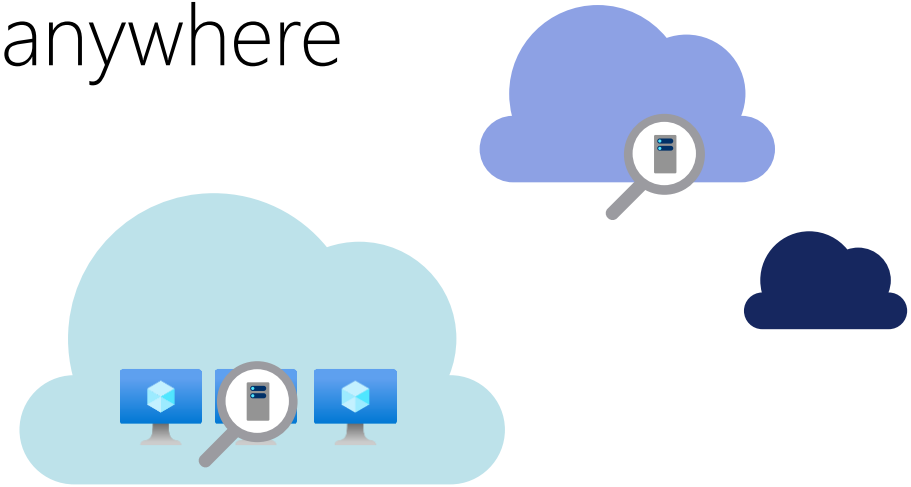
Hybrid & multi-cloud

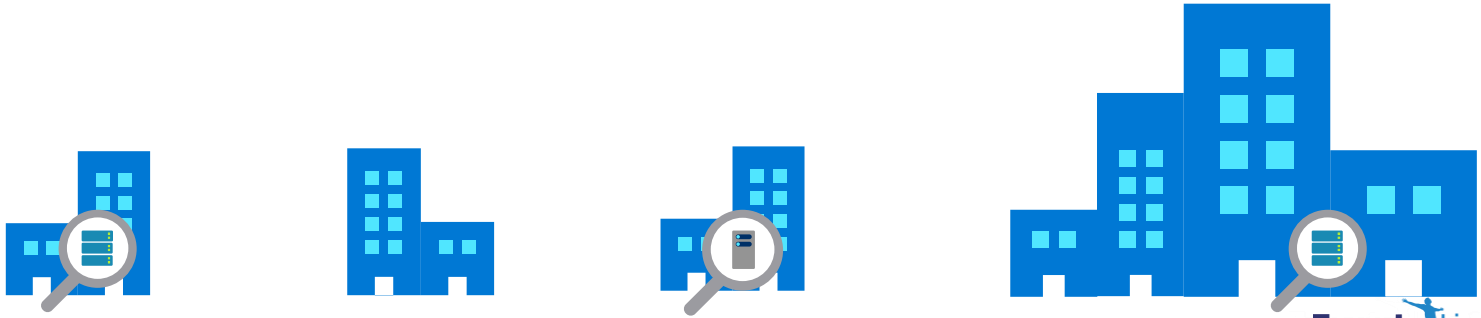
Windows Admin Center provides granular management anywhere

Lightweight, browser-based, remote management

Great for troubleshooting, configuration, maintenance

Connect to and manage a single server/cluster at a time



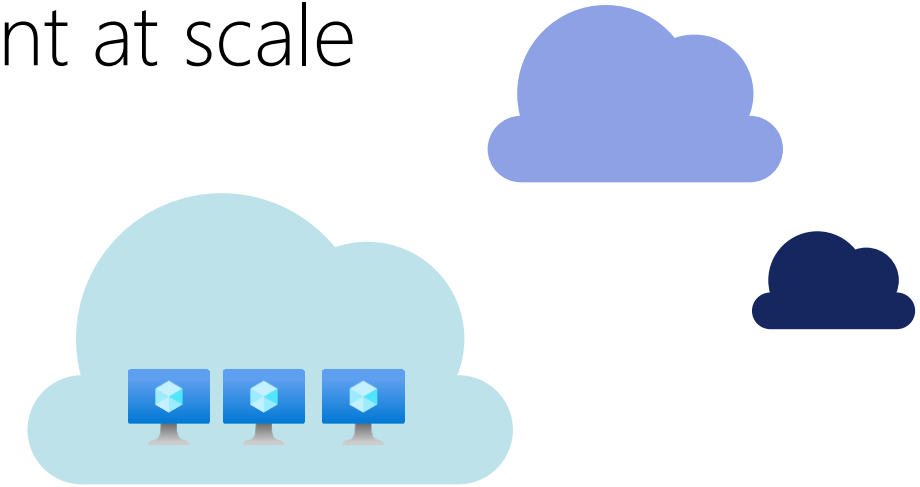


Experts Live Europe

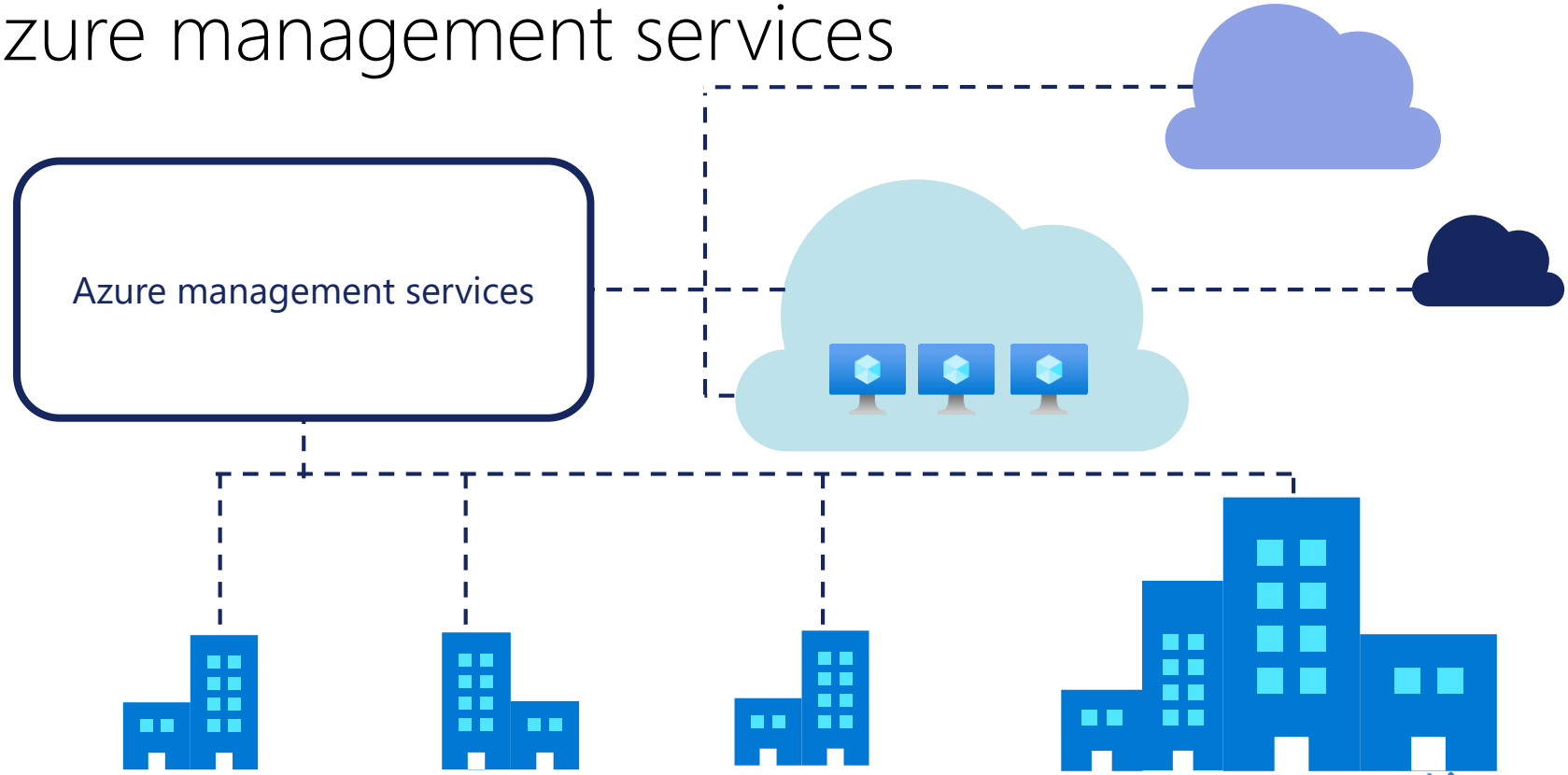
System Center provides datacenter management at scale

Datacenter management:
Monitoring, Config Mgmt,
Provisioning, Automation

Windows Server
management at scale,
custom monitoring (MPs)



Centralized management with Azure management services



Azure provides robust centralized management without the on-premises footprint

Azure management services

Remove dependency on additional hardware footprint to monitor your environment

Only pay for what you want/need

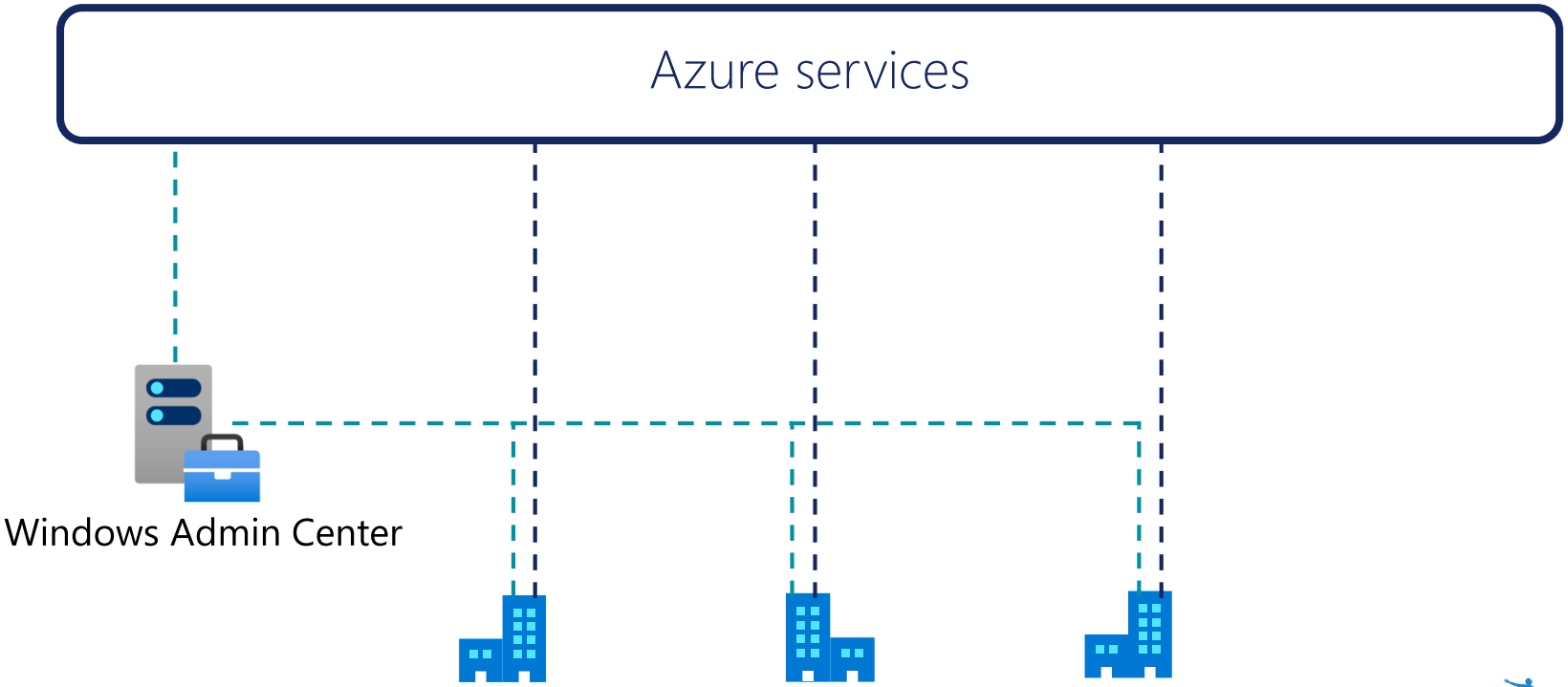
See your on-premises and Azure resources in one place in the Azure portal; manage your entire estate of server instances, anywhere

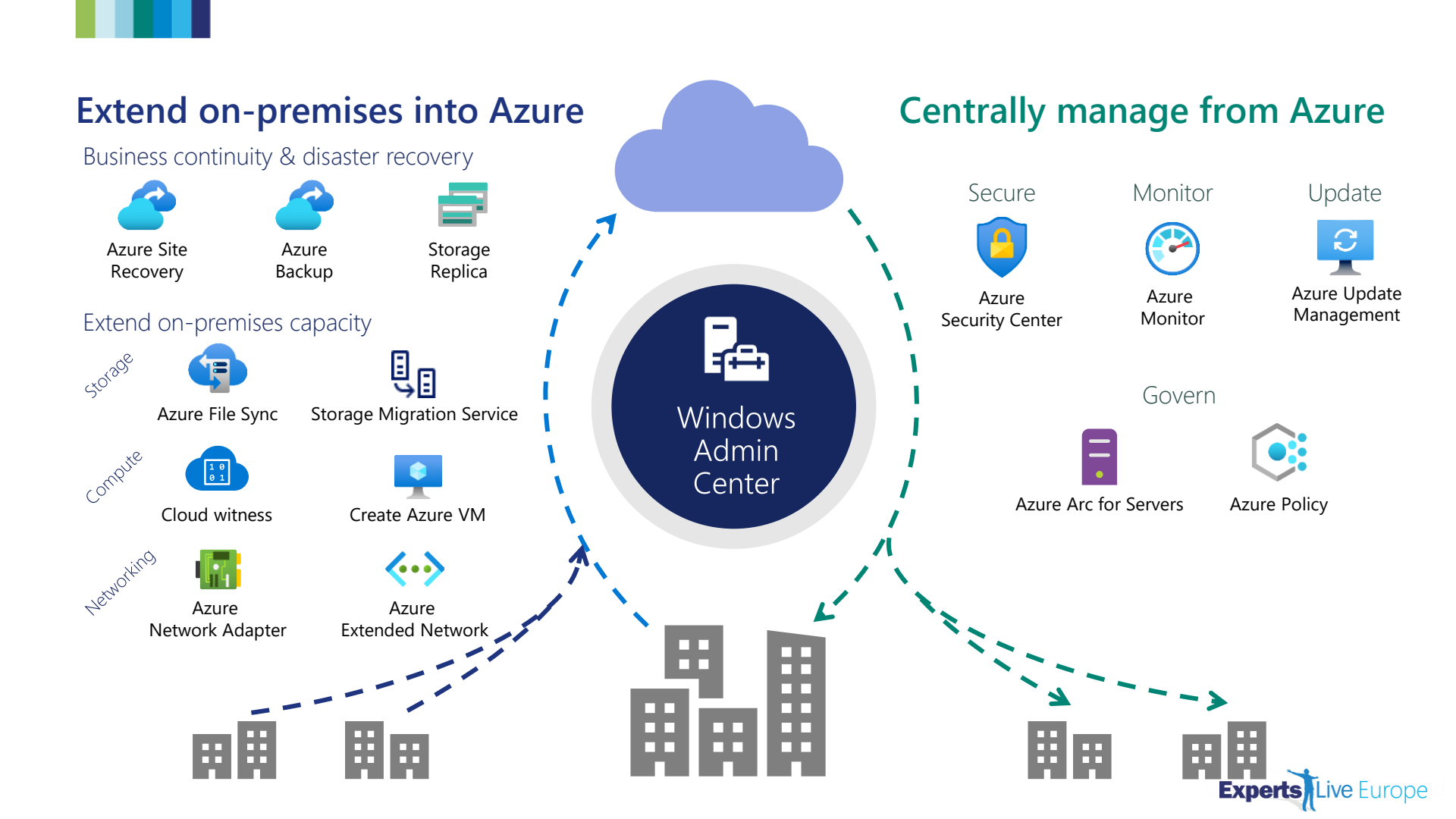
Windows Admin Center

+

Azure services

Windows Admin Center streamlines setup and configuration for your on-premises servers




Extend on-premises into Azure
Business continuity & disaster recovery
Azure Site Recovery
Azure Backup
Storage Replica
Extend on-premises capacity
Storage
Azure File Sync
Storage Migration Service
Compute
Cloud witness
Create Azure VM
Networking
Azure Network Adapter
Azure Extended Network
Windows Admin Center
Centrally manage from Azure
Secure
Azure Security Center
Monitor
Azure Monitor
Update
Azure Update Management
Govern
Azure Arc for Servers
Azure Policy

Windows Admin Center

+

System Center

Windows Admin Center

Reimagined "in-box" platform & tools

Included with Windows Server license – **no additional cost**, just like MMC and other traditional in-box tools

Lightweight, browser-based remote management of Windows Server instances, **anywhere**; alternative to RDP

Deep single-server & single-cluster drill-down for troubleshooting, configuration & maintenance

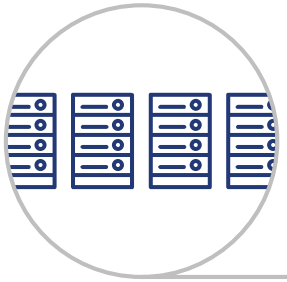
Optimized management of **individual** 2–4 node **HCI** clusters, integrating Hyper-V, Storage Spaces Direct, and SDN

Monitoring on HCI only; cluster health service stores history. Extensible platform for 1st and 3rd party **admin tool extensions**

Easiest bridge to **hybrid**; onboard and use a variety of Azure services for data protection, replication, updates and more

Lights up platform features of Windows Server: Storage Migration Service, Storage Replica, System Insights, etc.

+



System Center

Datacenter management & monitoring

Comprehensive suite of solutions for additional value across your environment and platforms

Manage & monitor **heterogeneous** systems **at scale**, including Hyper-V, VMware, and Linux

Infrastructure provisioning; automation and self-service; infrastructure and workload monitoring **breadth**

Deploy & manage Hyper-V, Windows Server clusters at **datacenter scale** from **bare metal** with SCVMM

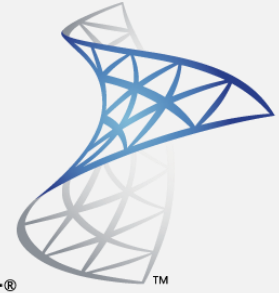
Extensible & **scalable monitoring** platform in SCOM, with alerting, notifications, third-party workload monitoring; SQL for history

Built-in data protection, replication, updates (DPM/VMM/SCCM). Hybrid integration with Log Analytics and Service Map

Additional platforms: Automation in Orchestrator/SMA. Integrations with SCSM & other service management tools

Each delivers targeted value independently; **better together** with complementary capabilities

System Center
+
Microsoft Azure



Microsoft®

System Center

- Automation
- Configuration
- Inventory
- Patch
- Security
- Backup
- Change tracking
- Monitoring
- Recovery

Microsoft®
System Center

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- Monitoring
- Recovery

Microsoft Azure

- Backup
- Change tracking
- Monitoring
- Recovery
- Automation
- Configuration
- Inventory
- Patch
- Security

Experts Live Europe

Microsoft® System Center

+

Microsoft Azure

= co-managed; *a 'better together' solution*

Central IT retains ultimate control

Preserves existing Windows management pack ecosystem

Enable teams to manage their own applications

Azure Lighthouse enables cross-tenant management *'on-behalf of'* scenarios

Azure Monitor provides DevOps oriented monitoring

Enables practical use of short-lived VMs for DevOps scenarios

The Evolution of Cloud Connected Monitoring

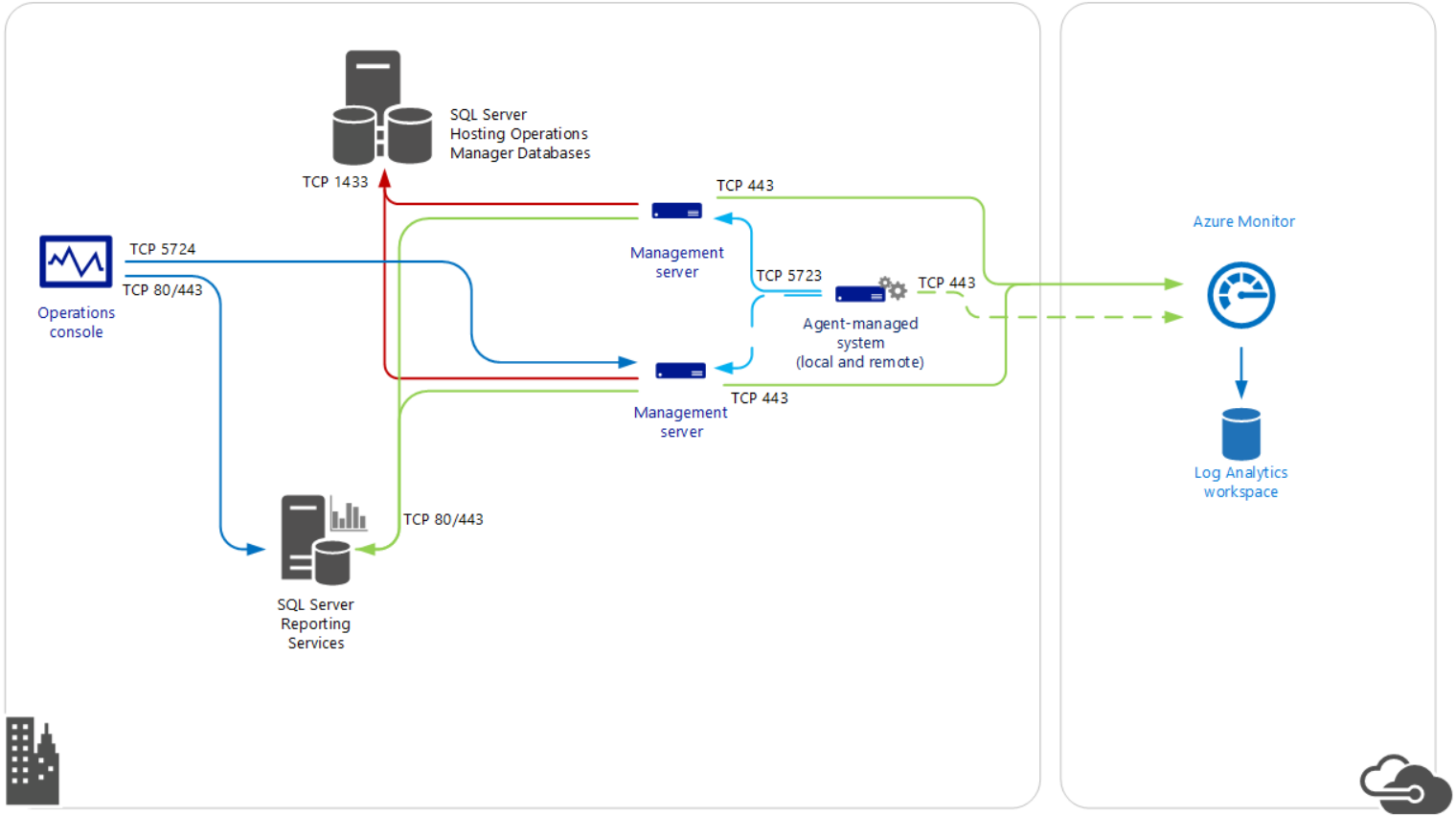
2012 Microsoft System Center Advisor

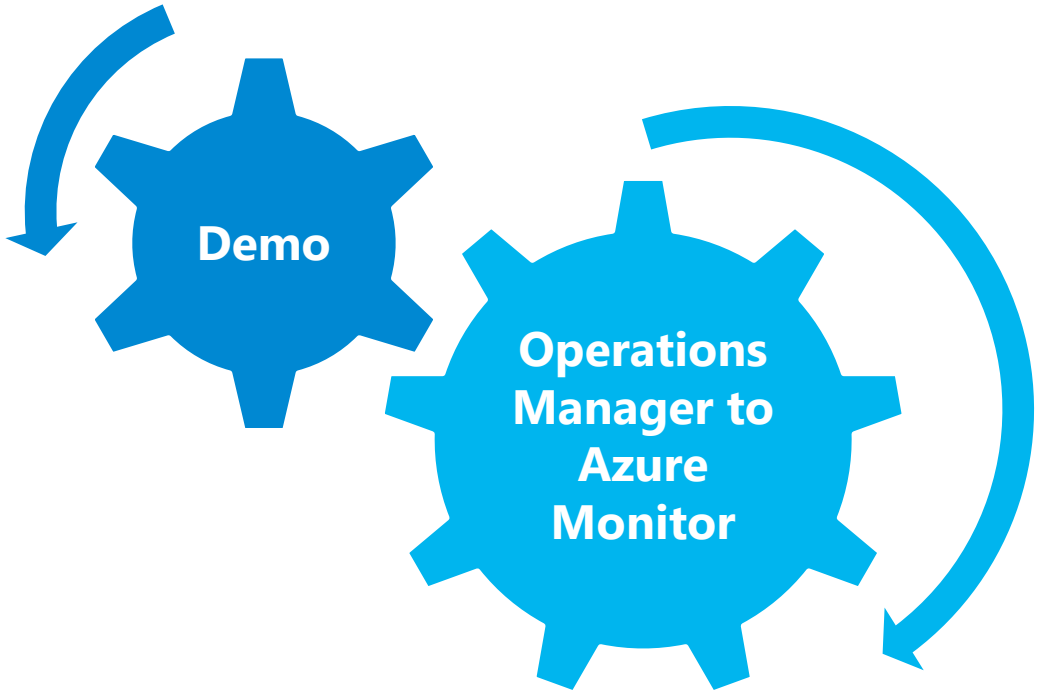
2014 Azure Operational Insights

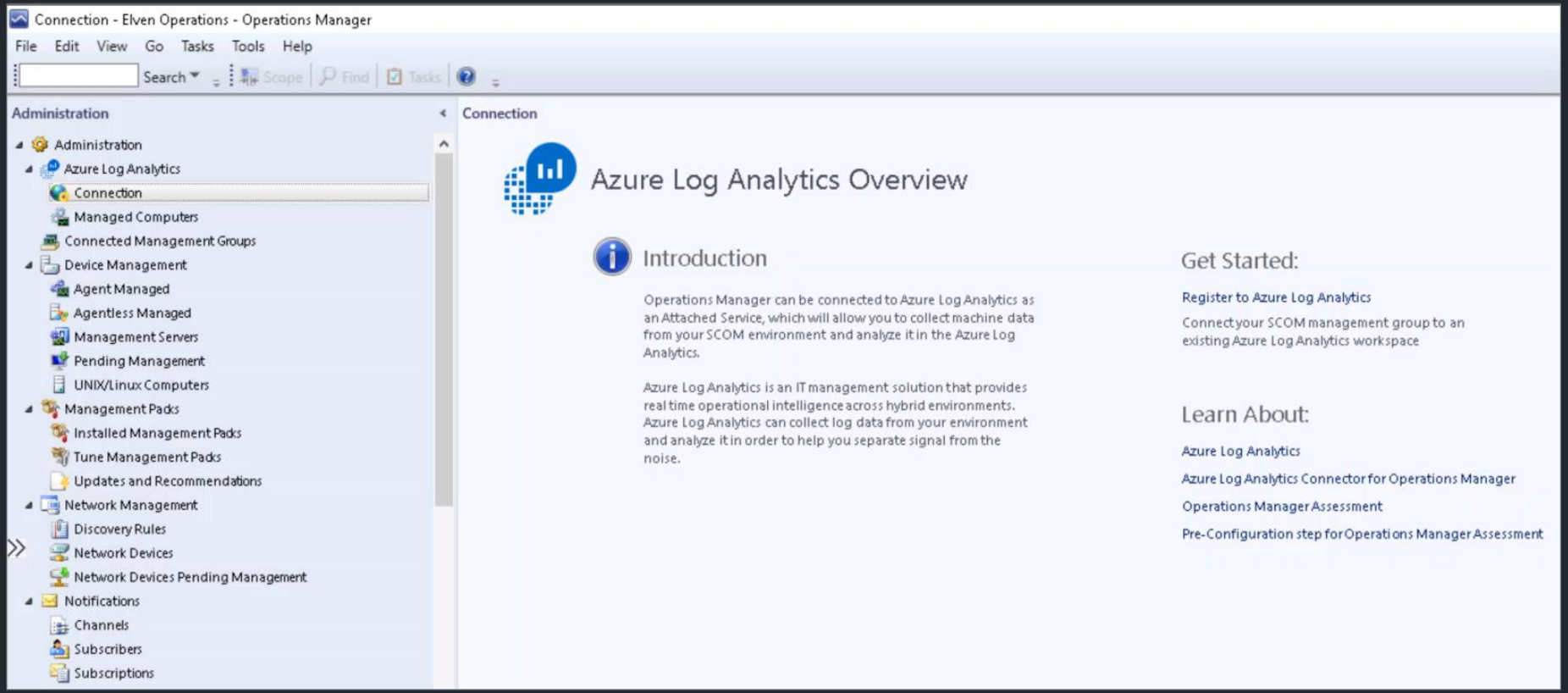
2016 Operations Management Suite

2018 Azure Monitor

Connect Operations Manager to Azure Monitor




Demo
Operations Manager to Azure Monitor


Connection - Elven Operations - Operations Manager
File Edit View Go Tasks Tools Help
Search
Scope
Find
Tasks
Administration
Administration
Azure Log Analytics
Connection
Managed Computers
Connected Management Groups
Device Management
Agent Managed
Agentless Managed
Management Servers
Pending Management
UNIX/Linux Computers
Management Packs
Installed Management Packs
Tune Management Packs
Updates and Recommendations
Network Management
Discovery Rules
Network Devices
Network Devices Pending Management
Notifications
Channels
Subscribers
Subscriptions
Connection
Azure Log Analytics Overview
Introduction
Operations Manager can be connected to Azure Log Analytics as an Attached Service, which will allow you to collect machine data from your SCOM environment and analyze it in the Azure Log Analytics.
Azure Log Analytics is an IT management solution that provides real time operational intelligence across hybrid environments. Azure Log Analytics can collect log data from your environment and analyze it in order to help you separate signal from the noise.
Get Started:
Register to Azure Log Analytics
Connect your SCOM management group to an existing Azure Log Analytics workspace
Learn About:
Azure Log Analytics
Azure Log Analytics Connector for Operations Manager
Operations Manager Assessment
Pre-Configuration step for Operations Manager Assessment

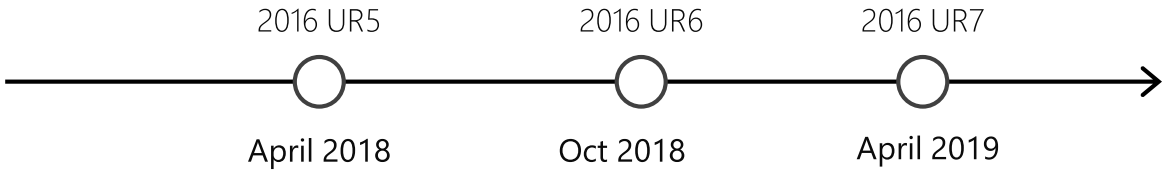
System Center release cadence

Long-Term Servicing Channel (LTSC) releases

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

Update Rollups (UR) for LTSC

- Every 6 months
- Bug fix releases



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

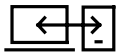
Update Management

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

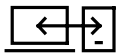
Service Catalog

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

Service Management in a Hybrid World

IT Service Management Connector

Microsoft

IT Service Management Connector

Microsoft

Create | ♡ Save for later

The IT Service Management Connector Solution enables you to provide faster resolution of incidents by bringing service desk and monitoring data together. It provides a bi-directional connection between Azure and supported ITSM tools : ServiceNow, System Center Service Manager, Provance and Cherwell.

With this solution you can:

• Create an incident (or event/alert) in your service desk solution based on alerts from Azure (activity log alerts and near real-time metric alerts in Azure Monitor and Azure Log Analytics alerts) or log records in Azure Log Analytics.

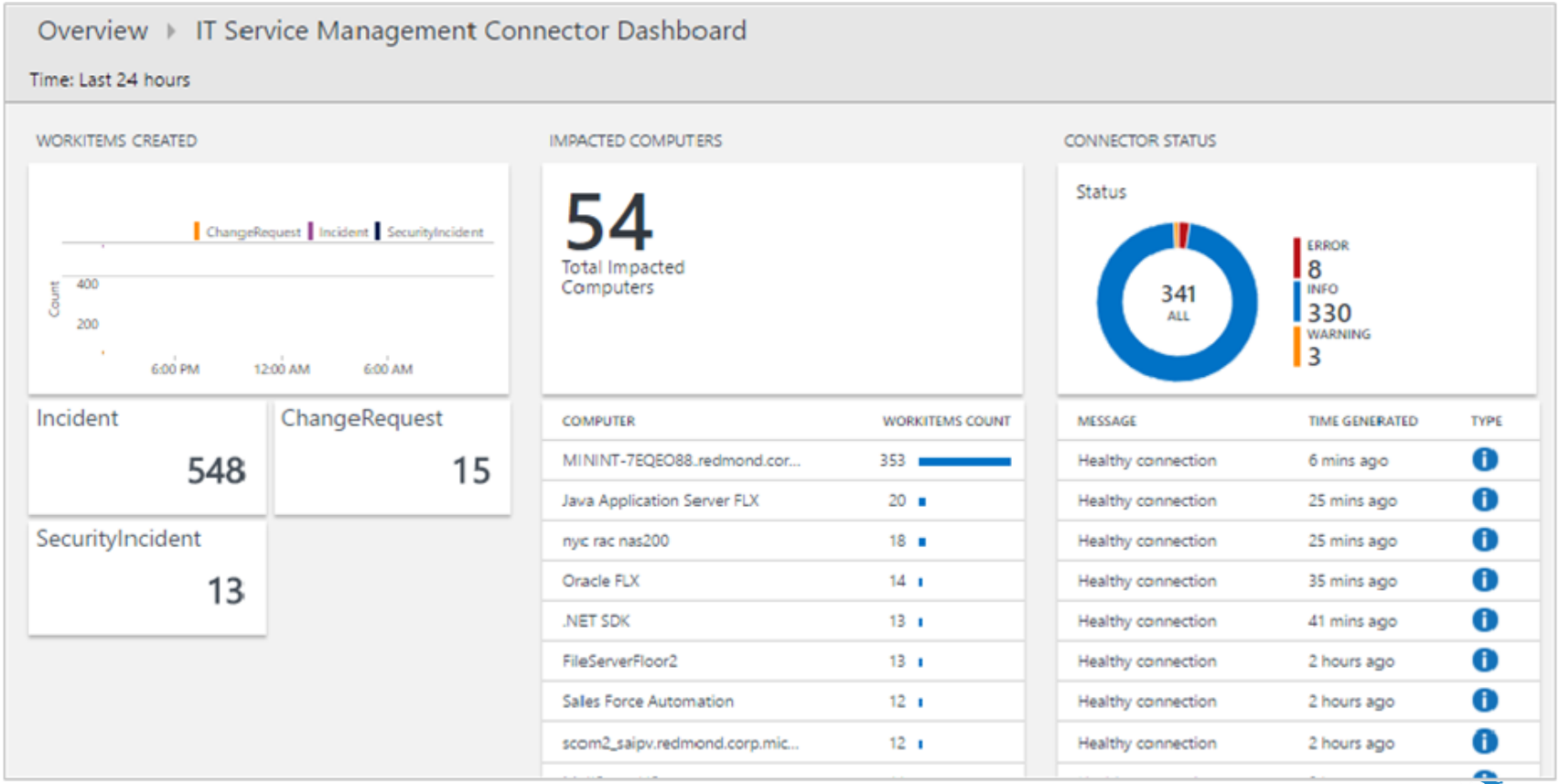
• Sync incident data from your service desk solution with Azure Log Analytics and correlate with relevant log data

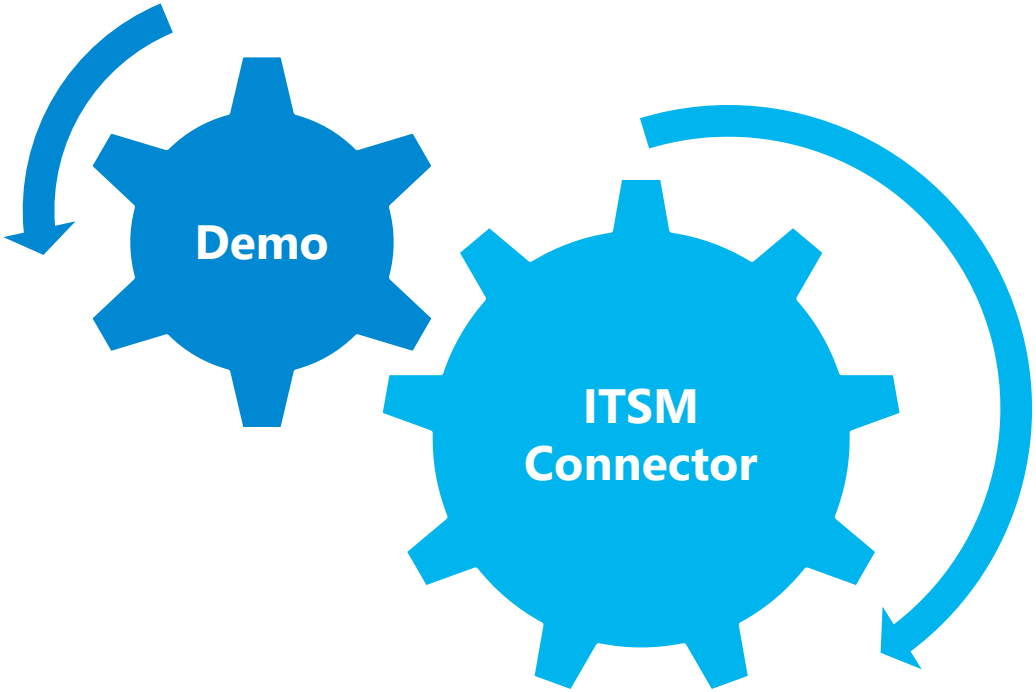
• Sync change request data from your service desk with Azure Log Analytics and correlate the change request data with Change Tracking solution of Operations Management Suite

• See your service desk incidents against affected resources in Service Map solution of Azure Log Analytics

After installing the solution, you will need to create a connection that links to your ITSM tool.

IT Service Management Dashboard




Demo
ITSM
Connector

What we covered

State of System Center 2019

Hybrid Management Scenarios

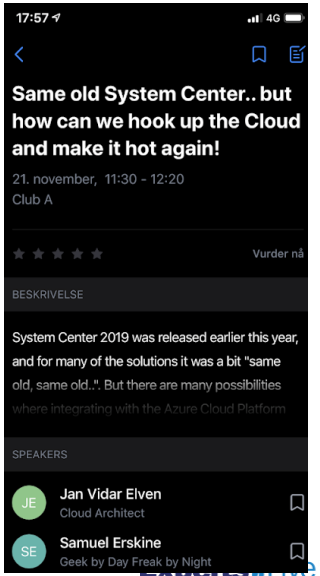
Cloud Connected Monitoring

Service Management in a Modern World

Please submit your feedback

Don’t forget to rate this session in the conference app

Thank you!



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"communitypower"

Thank you Sponsors!