Windows Server Management vNext
Project Honolulu
a.k.a.
Windows Admin Center

Eric Berg

Azure Lead Architekt

COMPAREX AG

MVP Cloud and Datacenter Management

MVP

Eric Berg

👤 Lead IT-Architekt – Team Azure / Team Modern Workplace

🔍 Azure, Datacenter and Modern Workplace

📦 Azure, System Center, Windows Server and Client

✉️ info@ericberg.de

🐦 @ericberg_de | @GeekZeugs

📶 www.ericberg.de | www.geekzeugs.de

Social Media Gewinnspiel

- Goldsponsor: **ALTARO**

- ToDo
  - Twitter über die Session mit / ohne Foto
  - @ericberg_de und @AltaroSoftware taggen / erwähnen
  - Hashtag #CDCGermany verwenden
  - Optional: Follower werden!!!

- Preis: 100€ - Amazon Gutschein

- Gewinner wird direkt von Altaro kontaktiert

Agenda

- **Geschichte des Server Managements**
- Honolulu Überblick
- Was war nochmal SMT?!
- Honolulu Architektur
- Honolulu Demo
- Honolulu Roadmap
- Honolulu SDK

Honolulu

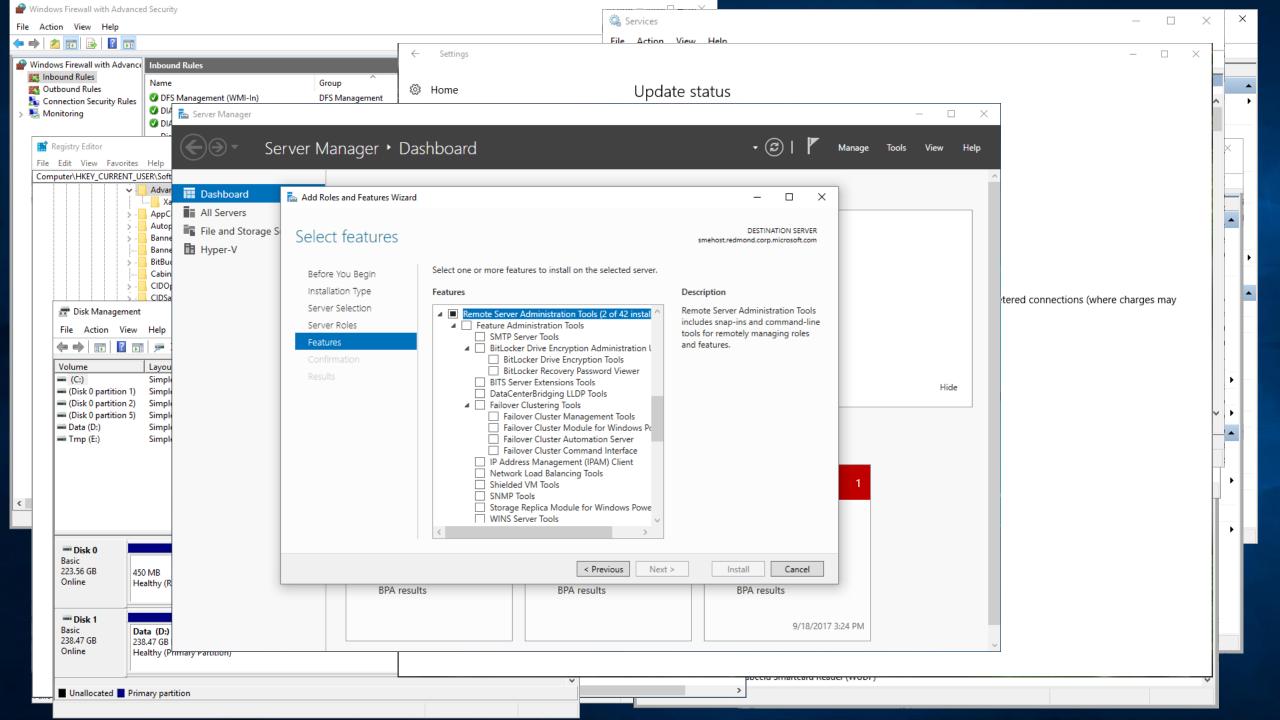Windows Admin Center

MMC / RSAT / Mgmt

Server Management

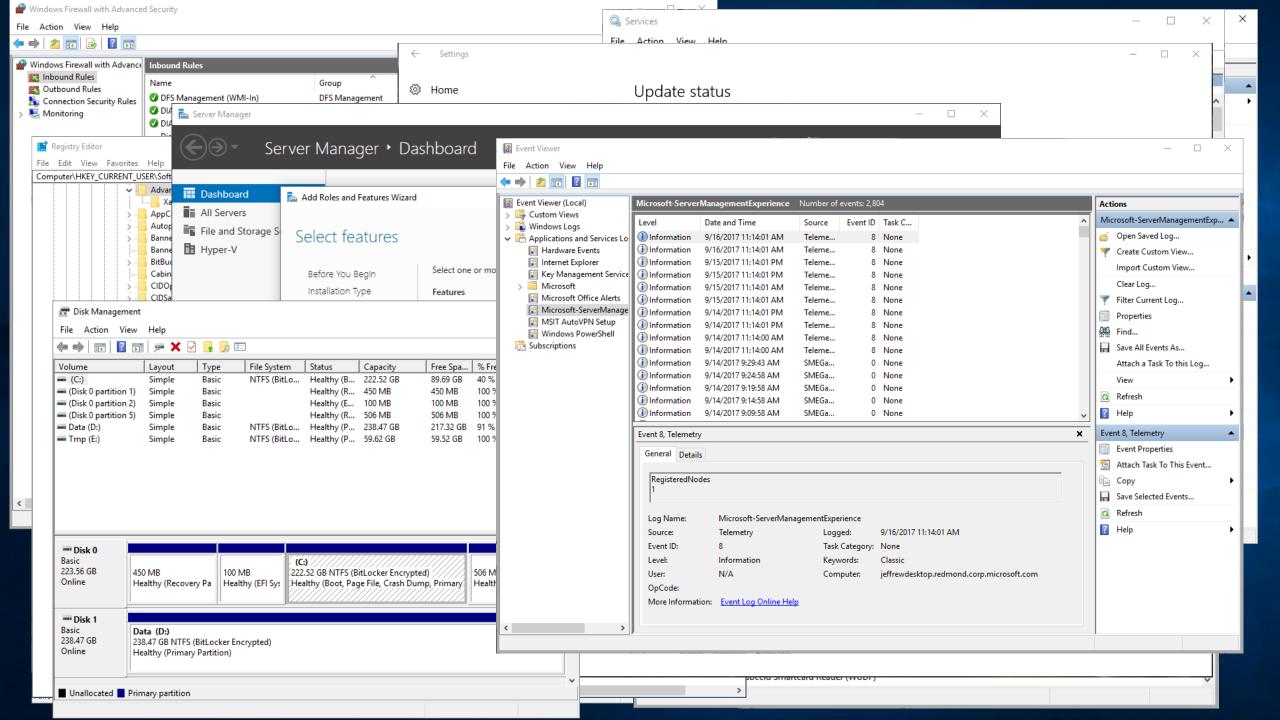| WS 2008	WS 2008 R2	WS 2012 / 2012 R2	WS 2016	WS Semi-Annual releases
Einzel-Server lokales Management	Einzel-Server remote Management	Multi-Server remote management	Cloud-basiertes Management von Überall, gehosted in Azure	Flexibles kundenseitig deploytes browser-basiertes Management

Windows Admin Center (f.k.a. Project Honolulu)
Flexibles, kundenseitig deploytes browser-basiertes Management
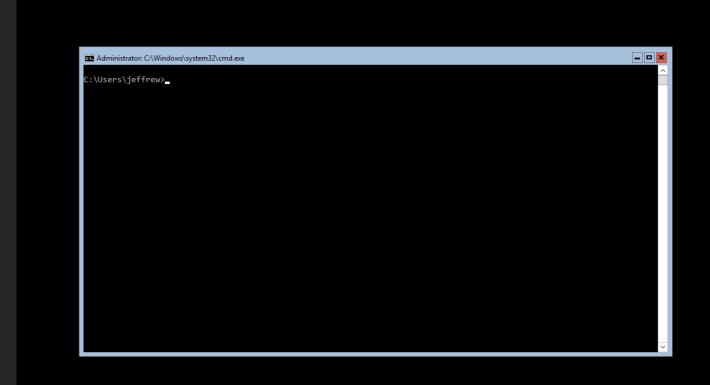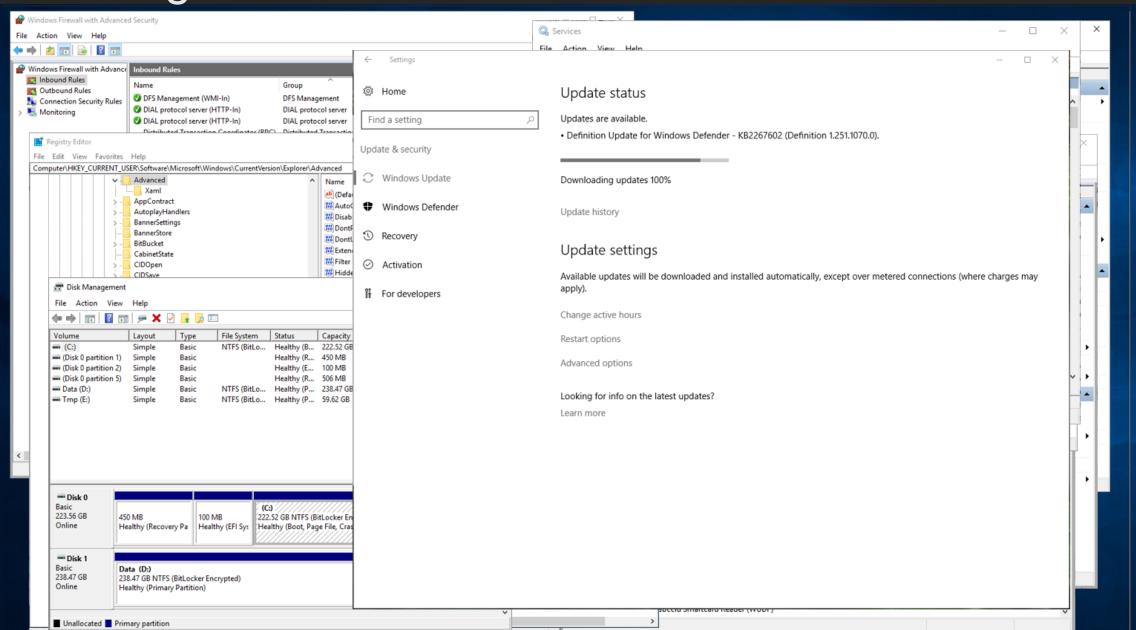Tools für Troubleshooting, Konfiguration und Wartung
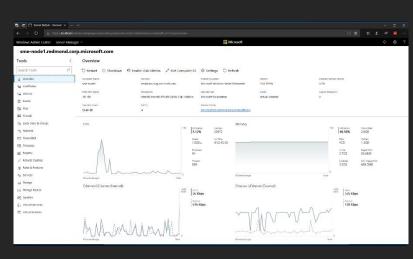
File   Action   View   Help

Windows Firewall with Advance
- Inbound Rules
- Outbound Rules
- Connection Security Rules
- Monitoring

Inbound Rules

Name	Group
DFS Management (WMI-In)	DFS Management
DIA	
DIA	

Services

File   Action   View   Help

Settings

Home

Update status

tered connections (where charges may

Registry Editor

File   Edit   View   Favorites   Help

Computer\HKEY_CURRENT_USER\Soft

- Advan
  - Xa
- AppC
- Autop
- Banne
- Banne
- BitBu
- Cabin
- CIDOp
- CIDSa

Server Manager

Server Manager • Dashboard

Manage   Tools   View   Help

- Dashboard
- All Servers
- File and Storage S
- Hyper-V

Add Roles and Features Wizard

Select features

DESTINATION SERVER
smehost.redmond.corp.microsoft.com

Select one or more features to install on the selected server.

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Features

- Remote Server Administration Tools (2 of 42 instal
  - Feature Administration Tools
    - SMTP Server Tools
    - BitLocker Drive Encryption Administration U
      - BitLocker Drive Encryption Tools
      - BitLocker Recovery Password Viewer
    - BITS Server Extensions Tools
    - DataCenterBridging LLDP Tools
    - Failover Clustering Tools
      - Failover Cluster Management Tools
      - Failover Cluster Module for Windows Po
      - Failover Cluster Automation Server
      - Failover Cluster Command Interface
    - IP Address Management (IPAM) Client
    - Network Load Balancing Tools
    - Shielded VM Tools
    - SNMP Tools
    - Storage Replica Module for Windows Powe
    - WINS Server Tools

Description

Remote Server Administration Tools includes snap-ins and command-line tools for remotely managing roles and features.

Hide

< Previous   Next >   Install   Cancel

Disk Management

File   Action   View   Help

Volume	Layou
(C:)	Simpl
(Disk 0 partition 1)	Simpl
(Disk 0 partition 2)	Simpl
(Disk 0 partition 5)	Simpl
Data (D:)	Simpl
Tmp (E:)	Simpl

Disk 0
Basic
223.56 GB
Online

450 MB
Healthy (R

Disk 1
Basic
238.47 GB
Online

Data (D:)
238.47 GB
Healthy (Primary Partition)

Unallocated   Primary partition

BPA results   BPA results   BPA results

1

9/18/2017 3:24 PM

Windows Firewall with Advanced Security

File   Action   View   Help

Windows Firewall with Advanced... | Inbound Rules
Inbound Rules
Outbound Rules
Connection Security Rules
Monitoring

Inbound Rules

Name	Group
DFS Management (WMI-In)	DFS Management
DIA...	
DIA...	

Services

File   Action   View   Help

Settings

Home

Update status

Server Manager

Server Manager ▸ Dashboard

Dashboard
All Servers
File and Storage S...
Hyper-V

Add Roles and Features Wizard

Select features

Before You Begin   Select one or mo
Installation Type   Features

Registry Editor

File   Edit   View   Favorites   Help

Computer\HKEY_CURRENT_USER\Soft

Advan
Xa
AppC
Autop
Banne
Banne
BitBu
Cabin
CIDO
CIDSa

Disk Management

File   Action   View   Help

Volume	Layout	Type	File System	Status	Capacity	Free Spa...	% Fre
(C:)	Simple	Basic	NTFS (BitLo...	Healthy (B...	222.52 GB	89.69 GB	40 %
(Disk 0 partition 1)	Simple	Basic		Healthy (R...	450 MB	450 MB	100 %
(Disk 0 partition 2)	Simple	Basic		Healthy (E...	100 MB	100 MB	100 %
(Disk 0 partition 5)	Simple	Basic		Healthy (R...	506 MB	506 MB	100 %
Data (D:)	Simple	Basic	NTFS (BitLo...	Healthy (P...	238.47 GB	217.32 GB	91 %
Tmp (E:)	Simple	Basic	NTFS (BitLo...	Healthy (P...	59.62 GB	59.52 GB	100 %

Disk 0
Basic
223.56 GB
Online

450 MB
Healthy (Recovery Pa

100 MB
Healthy (EFI Sys

(C:)
222.52 GB NTFS (BitLocker Encrypted)
Healthy (Boot, Page File, Crash Dump, Primary

506 M
Health

Disk 1
Basic
238.47 GB
Online

Data (D:)
238.47 GB NTFS (BitLocker Encrypted)
Healthy (Primary Partition)

■ Unallocated ■ Primary partition

Event Viewer

File   Action   View   Help

Event Viewer (Local)
Custom Views
Windows Logs
Applications and Services Lo
Hardware Events
Internet Explorer
Key Management Service
Microsoft
Microsoft Office Alerts
Microsoft-ServerManage
MSIT AutoVPN Setup
Windows PowerShell
Subscriptions

Microsoft-ServerManagementExperience   Number of events: 2,804

Level	Date and Time	Source	Event ID	Task C...
Information	9/16/2017 11:14:01 AM	Teleme...	8	None
Information	9/16/2017 11:14:01 AM	Teleme...	8	None
Information	9/15/2017 11:14:01 PM	Teleme...	8	None
Information	9/15/2017 11:14:01 PM	Teleme...	8	None
Information	9/15/2017 11:14:01 AM	Teleme...	8	None
Information	9/15/2017 11:14:01 AM	Teleme...	8	None
Information	9/14/2017 11:14:01 PM	Teleme...	8	None
Information	9/14/2017 11:14:01 AM	Teleme...	8	None
Information	9/14/2017 11:14:00 AM	Teleme...	8	None
Information	9/14/2017 11:14:00 AM	Teleme...	8	None
Information	9/14/2017 9:29:43 AM	SMEGa...	0	None
Information	9/14/2017 9:24:58 AM	SMEGa...	0	None
Information	9/14/2017 9:19:58 AM	SMEGa...	0	None
Information	9/14/2017 9:14:58 AM	SMEGa...	0	None
Information	9/14/2017 9:09:58 AM	SMEGa...	0	None

Event 8, Telemetry

General   Details

RegisteredNodes
1

Log Name: Microsoft-ServerManagementExperience
Source: Telemetry   Logged: 9/16/2017 11:14:01 AM
Event ID: 8   Task Category: None
Level: Information   Keywords: Classic
User: N/A   Computer: jeffrewdesktop.redmond.corp.microsoft.com
OpCode:
More Information: Event Log Online Help

Actions

Microsoft-ServerManagementExp...
Open Saved Log...
Create Custom View...
Import Custom View...
Clear Log...
Filter Current Log...
Properties
Find...
Save All Events As...
Attach a Task To this Log...
View
Refresh
Help

Event 8, Telemetry
Event Properties
Attach Task To This Event...
Copy
Save Selected Events...
Refresh
Help

Management vor dem Windows Admin Center

Windows Server Core 1709, 2016, 2012 R2, 2012

Management vor dem Windows Admin Center

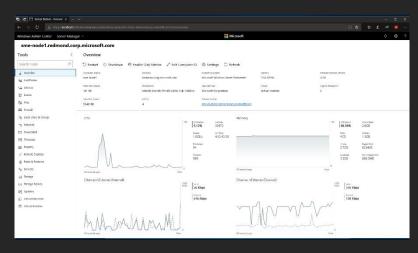# Management mit dem Windows Admin Center

Einfach   –   Integriert   –   Sicher   –   Cloud-Ready

Windows Server
2016, 2012 R2, 2012

Windows Server Core
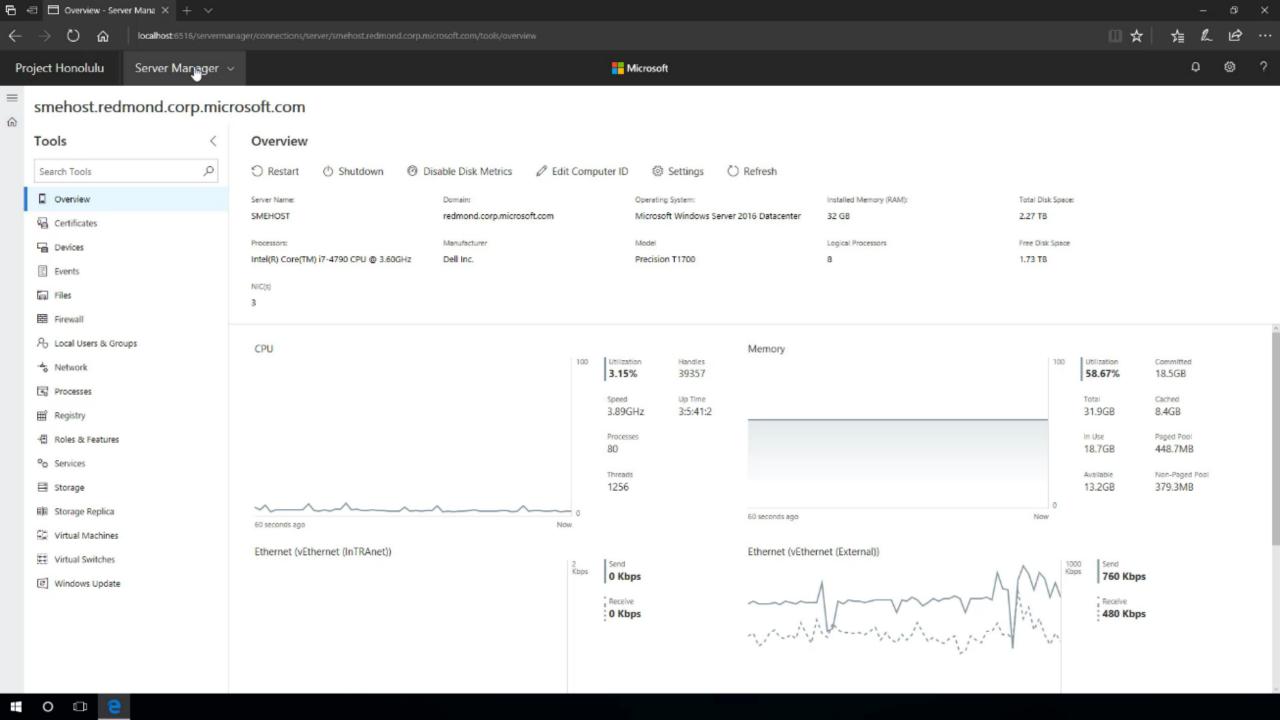1709, 2016, 2012 R2, 2012

Windows 10 Client

Agenda

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- ● Honolulu Überblick
- Was war nochmal SMT?!
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- Honolulu Roadmap
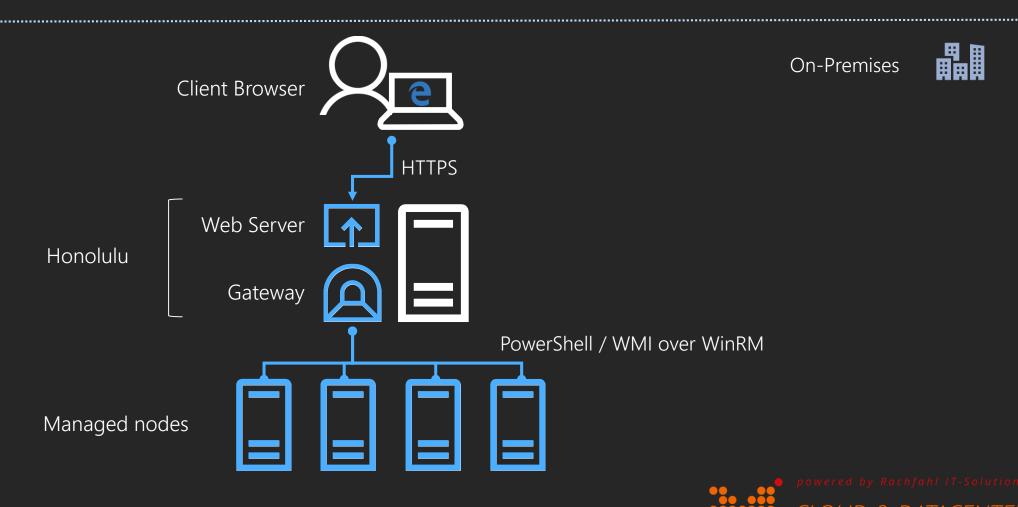- Honolulu SDK

Honolulu

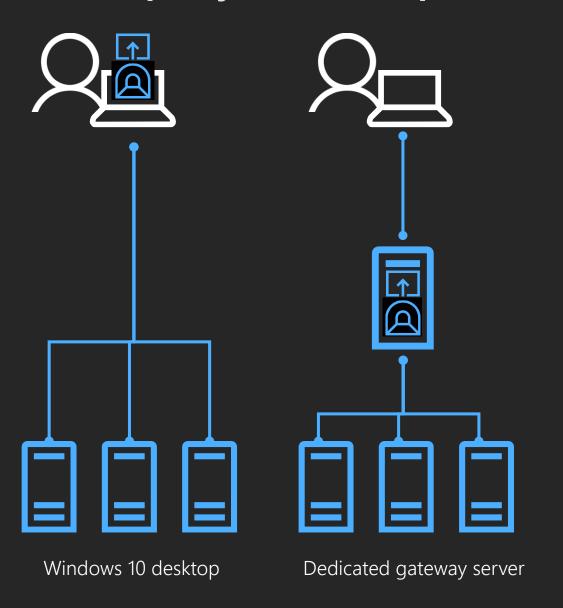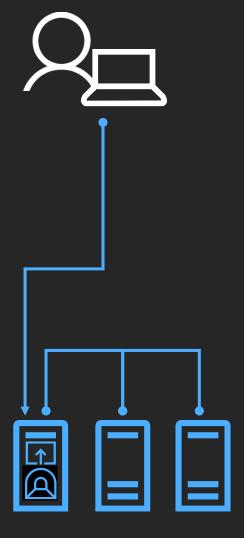Windows Admin Center

MMC / RSAT / Mgmt

localhost:6516/servermanager/connections/server/smehost.redmond.corp.microsoft.com/tools/overview

Project Honolulu   Server Manager   ▼   ■■ Microsoft

smehost.redmond.corp.microsoft.com

Tools

Search Tools

- 📱 **Overview**
- 🔒 Certificates
- ▦ Devices
- ▤ Events
- ▦ Files
- ▦ Firewall
- 👥 Local Users & Groups
- ⚡ Network
- ▦ Processes
- ▦ Registry
- ▣ Roles & Features
- ⚙ Services
- ▤ Storage
- ▦ Storage Replica
- ▦ Virtual Machines
- ▦ Virtual Switches
- ▦ Windows Update

Overview

↻ Restart   ⏻ Shutdown   ⊘ Disable Disk Metrics   ✎ Edit Computer ID   ⚙ Settings   ↻ Refresh

Server Name:	Domain:	Operating System:	Installed Memory (RAM):	Total Disk Space:
SMEHOST	redmond.corp.microsoft.com	Microsoft Windows Server 2016 Datacenter	32 GB	2.27 TB

Processors:	Manufacturer:	Model:	Logical Processors:	Free Disk Space:
Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	Dell Inc.	Precision T1700	8	1.73 TB

NIC(s)
3

CPU

Utilization	Handles
3.15%	39357

Speed	Up Time
3.89GHz	3:5:41:2

Processes
80

Threads
1256

60 seconds ago   Now

Memory

Utilization	Committed
58.67%	18.5GB

Total	Cached
31.9GB	8.4GB

In Use	Paged Pool
18.7GB	448.7MB

Available	Non-Paged Pool
13.2GB	379.3MB

60 seconds ago   Now

Ethernet (vEthernet (InTRAnet))

Send
0 Kbps

Receive
0 Kbps

Ethernet (vEthernet (External))

Send
760 Kbps

Receive
480 Kbps

Management Optionen

Kleine Deployments
SMB
Remote-Offices
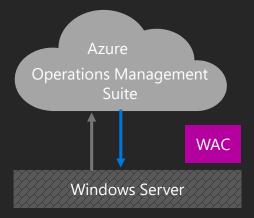
Große Deployments
für Enterprise,
Hoster und MSPs

Cloud mit Hybrid IT Mgmt
as a Service

Azure
Operations Management
Suite

| Windows Admin Center |
| Windows Server |

| System Center | WAC |
| Windows Server |

| WAC |
| Windows Server |

Modernes graphisches Management

Windows Admin Center

Einfach – Integriert – Sicher – Cloud-Ready

Haupt Admin Tools

Troubleshooting

Konfiguration

Wartung

Hero Funktionen

Hyper-Converged Cluster Management

Azure ntegration

Erweiterung

SDK

Umfang

Ökosystem von Lösungen

Plattform

Agenda

- Geschichte des Server Managements
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- ● Was war nochmal SMT?!
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- Honolulu Demo
- Honolulu Roadmap
- Honolulu SDK

Honolulu

Windows Admin Center
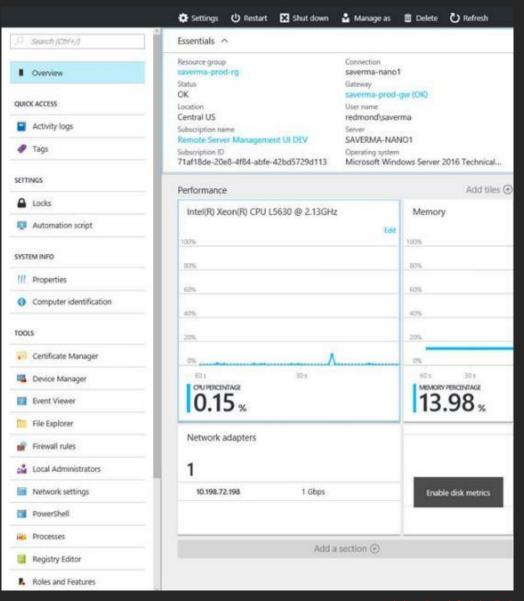
MMC / RSAT / Mgmt

Was war SMT?

Server Management Tools in Azure
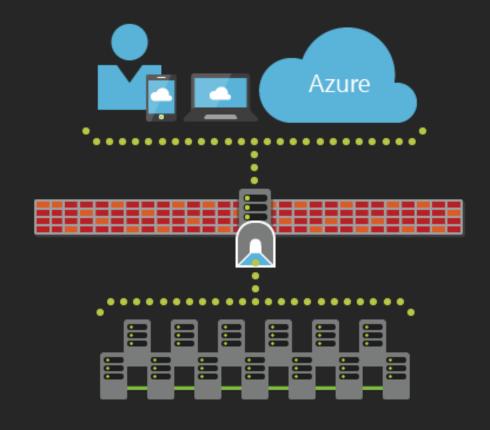
- In Preview von Feb 2016 – Juni 2017
- Management von Überall
- Management von jeder Platform
- Integrierte Lösung
- Kontinuierliche Entwicklung
- Versions Support
- GUI First

Kunden Feedback zu SMT

- User sagen, "Toll, aber…"
  - Keine Internet-Verbindung
  - Dediziertes End-to-End Deployment

- Partner sagen, "Toll, aber…"
  - Ich muss Management auch ohne Azure anbieten können
  - Infrastructure Lösungen und Cloud-Management passen nicht

- Nr. 1
  - On-Premises Tools

Azure

Agenda

- Geschichte des Server Managements
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- Honolulu SDK

Honolulu

Windows Admin Center

MMC / RSAT / Mgmt

CLOUD & DATACENTER
CONFERENCE Germany

Windows Admin Center Architektur

Internet

On-Premises

Client Browser

HTTPS

Honolulu

Web Server

Gateway

PowerShell / WMI over WinRM

Managed nodes

powered by Rachfahl IT-Solutions

CLOUD & DATACENTER
CONFERENCE *Germany*

Deployment Optionen

Windows 10 desktop

Dedicated gateway server

Managed node

High availability

CLOUD & DATACENTER CONFERENCE *Germany*
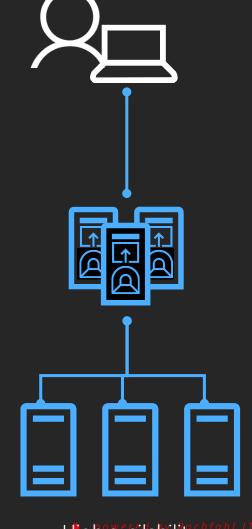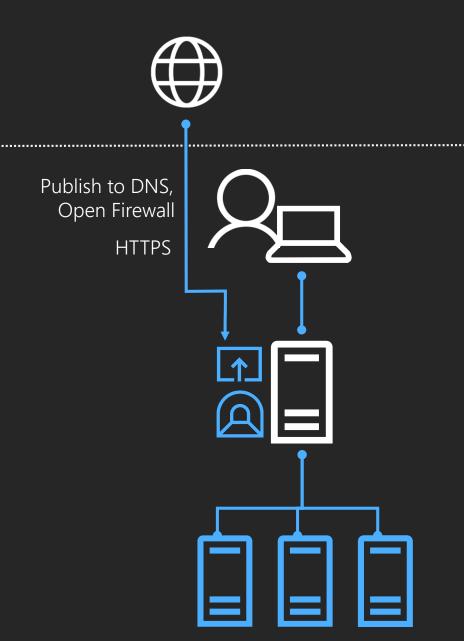
Zugriff von Überall

Internet

On-Premises

Publish to DNS,
Open Firewall

HTTPS

Anforderungen

- WAC Basisinstallation
  - Windows 10 (1709)   Desktop mode
  - Windows Server, version 1709 Gateway mode
  - Windows Server 2016   Gateway mode

- WAC verwaltete Server
  - Windows Server 2012
  - Windows Server …
  - Windows Server 2019 TP

- Seit 1804 GA
  - Server 2016 HCI
  - Azure AD Auth

Management mit Windows Admin Center

Server
Overview
Certificates
Devices
Events
Files
Firewall
Local Users and Groups
Network
PowerShell
Processes
Registry
Remote Desktop
Roles and Features
Services
Storage Replica
Storage
Updates
Virtual Machines
Virtual Switches

Failover Cluster
Overview
Disks
Networks
Nodes
Roles
Virtual Machines
Virtual Switches

Hyper-Converged Cluster
Overview
Drives
Servers
Virtual Machines
Virtual Switches
Volumes

Gateway configurations

Enhanced security & access management

Local users & groups, Active Directory

Azure Active Directory & multi-factor authentication

Role-based access control (RBAC)

High availability

Active/Passive model

Install Windows Admin Center on a cluster

User experience

Platform

Tagging

Logging

Performance

User interface

Pane & column resizing

Localization

Accessibility (keyboard navigation, narrator support)

Agenda

- Geschichte des Server Managements
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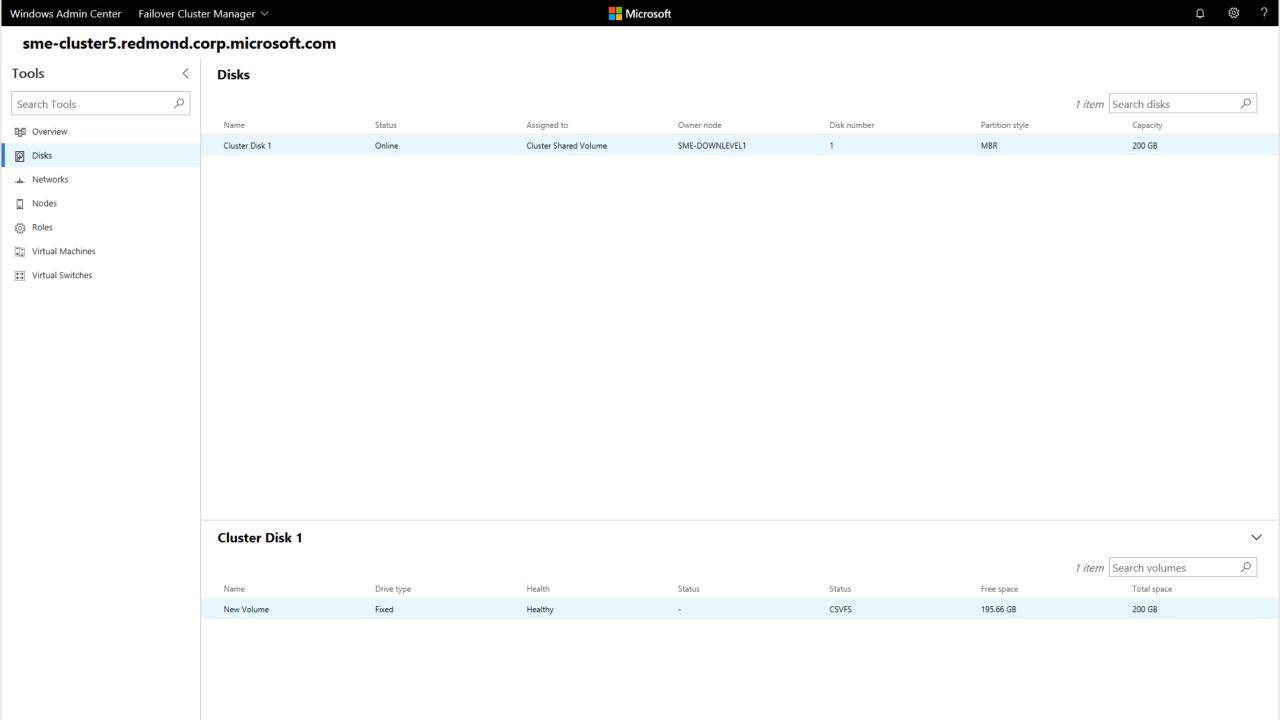- Honolulu Demo
- Honolulu Roadmap
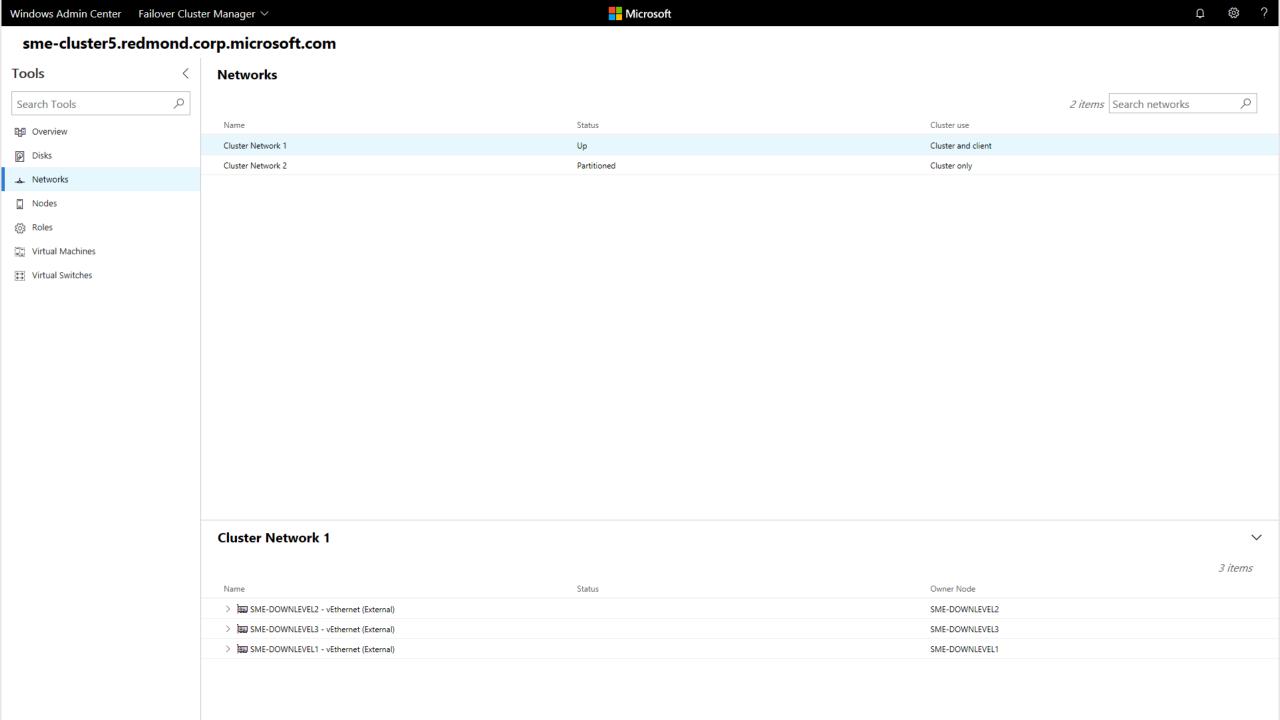- Honolulu SDK
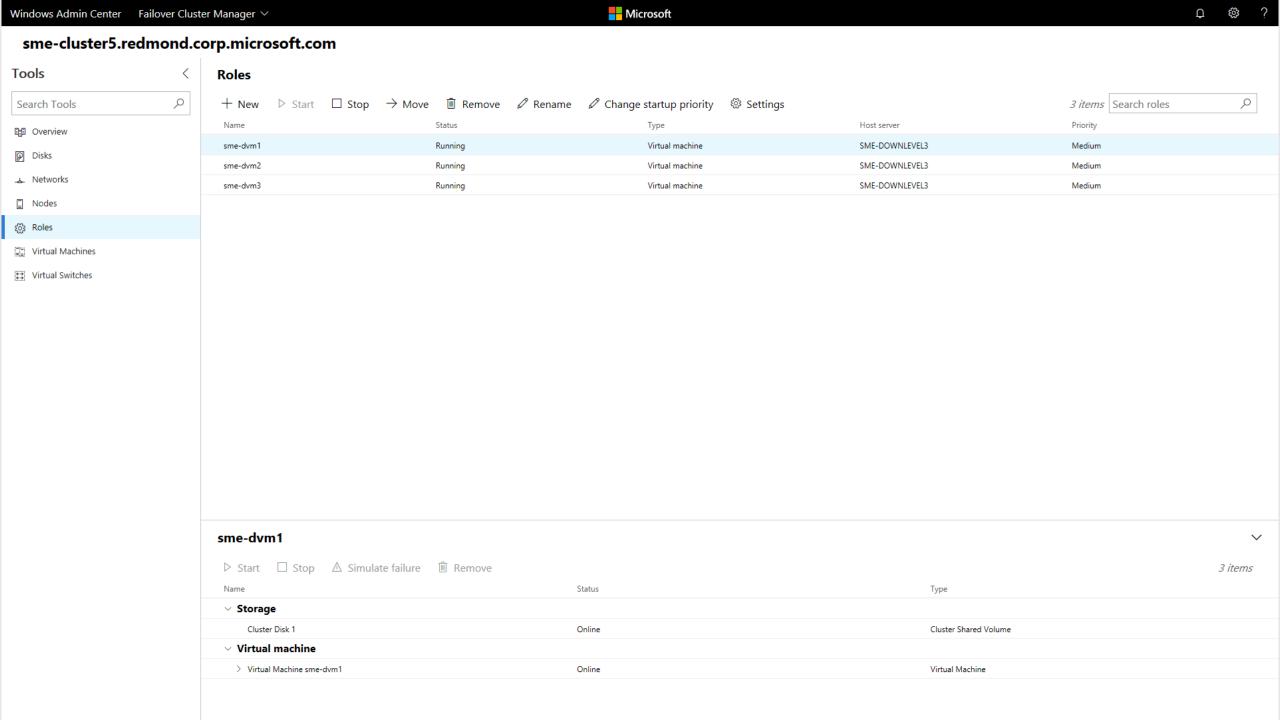
Honolulu

Windows Admin Center

MMC / RSAT / Mgmt

Failover Cluster Manager

powered by Rachfahl IT-Solutions

CLOUD & DATACENTER
CONFERENCE Germany

sme-cluster5.redmond.corp.microsoft.com

Tools   ‹

Search Tools   🔍

- ▦ Overview
- 💿 Disks
- ⊥ Networks
- ▯ Nodes
- ⚙ Roles
- ▦ Virtual Machines
- ▣ Virtual Switches

Overview   MORE COMING SOON ⓘ

Name:	Current host:	Clustered roles:	Networks:	Disks:
sme-cluster5.redmond.corp.microsoft.com	SME-DOWNLEVEL1	3	2	1

Witness:

None

Cluster resources

▷ Start   ☐ Stop   ⚠ Simulate failure   🗑 Remove   3 items

Name	Status	Type
⌄ **Server name**		
⌄ Cluster Name	Online	Network Name
Cluster IP Address	Online	IP Address
Cluster IP Address 2001:4898:d8:1111::	Online	IPv6 Address

sme-cluster5.redmond.corp.microsoft.com

Tools

Search Tools

- 🔲 Overview
- 🔲 **Disks**
- ⟓ Networks
- 🔲 Nodes
- ⚙ Roles
- 🔲 Virtual Machines
- 🔲 Virtual Switches

Disks

1 item   Search disks

Name	Status	Assigned to	Owner node	Disk number	Partition style	Capacity
Cluster Disk 1	Online	Cluster Shared Volume	SME-DOWNLEVEL1	1	MBR	200 GB

Cluster Disk 1   ∨

1 item   Search volumes

Name	Drive type	Health	Status	Status	Free space	Total space
New Volume	Fixed	Healthy	-	CSVFS	195.66 GB	200 GB

Microsoft

sme-cluster5.redmond.corp.microsoft.com

Tools   ‹

| Search Tools | 🔍 |

▦ Overview

🗗 Disks

⚓ Networks

▯ Nodes

⚙ Roles

▤ Virtual Machines

▦ Virtual Switches

Networks

| | | 2 items | Search networks | 🔍 |

Name	Status	Cluster use
Cluster Network 1	Up	Cluster and client
Cluster Network 2	Partitioned	Cluster only

Cluster Network 1   ⌄

3 items

Name	Status	Owner Node
› ▦ SME-DOWNLEVEL2 - vEthernet (External)		SME-DOWNLEVEL2
› ▦ SME-DOWNLEVEL3 - vEthernet (External)		SME-DOWNLEVEL3
› ▦ SME-DOWNLEVEL1 - vEthernet (External)		SME-DOWNLEVEL1
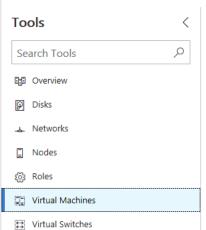
sme-cluster5.redmond.corp.microsoft.com

Tools   ‹

Search Tools   🔍

📖 Overview

🗄 Disks

⟋ Networks

🗄 **Nodes**

⚙ Roles

🖥 Virtual Machines

⊞ Virtual Switches

Nodes

⏸ Pause   ▷ Resume   ▷ Start service   ☐ Stop service   ⧉ Manage   *3 items*   Search   🔍

Name	Status	Assigned vote	Current vote	Site	Rack	Chassis
SME-DOWNLEVEL1	Up	1	1	-	-	-
SME-DOWNLEVEL2	Up	1	1	-	-	-
SME-DOWNLEVEL3	Up	1	1	-	-	-

sme-cluster5.redmond.corp.microsoft.com

Tools ‹

Search Tools 🔍

🖳 Overview

💾 Disks

⚡ Networks

📱 Nodes

⚙ Roles

🖥 Virtual Machines

▦ Virtual Switches

Roles

| + New | ▷ Start | ☐ Stop | → Move | 🗑 Remove | ✎ Rename | ⚙ Change startup priority | ⚙ Settings | | 3 items | Search roles 🔍 |

Name	Status	Type	Host server	Priority
sme-dvm1	Running	Virtual machine	SME-DOWNLEVEL3	Medium
sme-dvm2	Running	Virtual machine	SME-DOWNLEVEL3	Medium
sme-dvm3	Running	Virtual machine	SME-DOWNLEVEL3	Medium

sme-dvm1　　　　　　　　　　　　　　　　　　　　　　　　　　　　∨

| ▷ Start | ☐ Stop | ⚠ Simulate failure | 🗑 Remove | | 3 items |

Name	Status	Type
⌄ **Storage**		
⠀⠀Cluster Disk 1	Online	Cluster Shared Volume
⌄ **Virtual machine**		
⠀⠀› Virtual Machine sme-dvm1	Online	Virtual Machine

sme-cluster5.redmond.corp.microsoft.com

Tools   ‹

🔍 Search Tools

- ▦ Overview
- 📀 Disks
- ⎓ Networks
- ▯ Nodes
- ⚙ Roles
- ▦ **Virtual Machines**
- ▦ Virtual Switches

Virtual machines   MORE COMING SOON ⓘ

Summary   Inventory

Summary

Total

3 virtual machines

Running	Off
3	0

Paused	Saved
0	0

Events
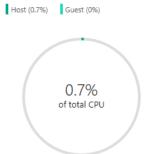
ⓘ	5 minutes ago	The virtual machine 'TD-1523387200732' was deleted. (Virtual machine ID 4C401B5A-8D65-426F-B7BD-4B0726F0B1E8)
ⓘ	6 minutes ago	A new virtual machine 'TD-1523387200732' was created. (Virtual machine ID 4C401B5A-8D65-426F-B7BD-4B0726F0B1E8)
ⓘ	10 minutes ago	The virtual machine 'TD-1523384972041' was deleted. (Virtual machine ID 2481355B-F6AE-41E9-853B-B149FAE76A3E)
ⓘ	10 minutes ago	The virtual machine 'TD-1523384536335' was deleted. (Virtual machine ID B4E00522-A852-4A9E-970A-B184D9AA4CE0)
ⓘ	12 minutes ago	The virtual machine 'TD-1523385363553' was deleted. (Virtual machine ID F729F87A-9805-4B6A-8D74-B40813F63185)

VIEW ALL EVENTS ›

Resource usage

CPU

▮ Host (0.7%)   ▮ Guest (0%)

0.7%
of total CPU

Top CPU usage

Name	CPU usage
sme-dvm3	0 %
sme-dvm2	0 %
sme-dvm1	0 %

Memory

▮ Host (20.2%)   ▮ Guest (2.4%)

22.5%
of 31.69 GB

Top assigned memory

Name	Assigned memo...
sme-dvm1	0.8 %
sme-dvm2	0.8 %
sme-dvm3	0.8 %

sme-cluster5.redmond.corp.microsoft.com

Tools ‹

🔍 Search Tools

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- ▤ Virtual Machines
- ▦ Virtual Switches

Virtual switches   MORE COMING SOON ⓘ

➕ New   🗑 Delete   ✏ Rename   ⚙ Settings   *6 items* ↻   🔍 Search...

Name	Network adapter	Switch type	Shared with management OS
∨ sme-downlevel1.redmond.corp.microsoft.com			
External	Intel(R) 82579LM Gigabit Network Connection	External	Yes
Internal		Internal	No
∨ sme-downlevel2.redmond.corp.microsoft.com			
Internal		Internal	No
External	Intel(R) 82578DM Gigabit Network Connection	External	Yes
∨ sme-downlevel3.redmond.corp.microsoft.com			
Internal		Internal	No
External	Intel(R) 82579LM Gigabit Network Connection	External	Yes

Hyper-Converged Cluster Manager

hci1804demo.cfdev.nttest.microsoft.com

Tools

Search Tools

- 🏠 Dashboard
- 🖥 Drives
- 📱 Servers
- 🖥 Virtual Machines
- 🖵 Virtual Switches
- 🗄 Volumes

Dashboard PREVIEW ⓘ

Alerts (2)

🔴 **VOLUME NY2-WEBSTOR**   5 days ago
The volume 'NY2-WebStor' is running low on availa...

⚠️ **VOLUME NY1-WEBSTOR**   5 days ago
The volume 'NY1-WebStor' is running low on availa...

VIEW ALL ALERTS ❯

Cluster performance

Hour Day Week Month Year

IOPS	Latency	Throughput
2 kIO/s	**64.39 µs**	**1.62 MB/s**

1 hour ago — Now | 1 hour ago — Now | 1 hour ago — Now

CPU usage ⓘ
Total (3.3%)

3.3%
of 367.68 GHz

Memory usage ⓘ
Total (9.4%)

9.4%
of 1 TB

Storage usage ⓘ
Total (46.2%)

46.2%
of 20.02 TB

Servers   4
All servers healthy
✓
VIEW SERVERS ❯

Virtual machines   20
Running	Off
19	1
VIEW VIRTUAL MACHINES ❯

Drives   63
All drives healthy
✓
VIEW DRIVES ❯

Volumes   10
Critical	Warning
1	1
VIEW VOLUMES ❯

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Tools ‹

Search Tools 🔍

🏠 Dashboard

🗄 Drives

🖥 Servers

🎞 Virtual Machines

⊞ Virtual Switches

🗄 Volumes

Drives

Summary   Inventory

Total
63 drives

Critical	Warning	Other	Healthy
0	0	0	**63**

Alerts (0)

There are no alerts
✓

VIEW DRIVE ALERTS ›

Capacity
HDD storage   Total: 171.02 TB ⍰

Used: 60.1 TB(35%)

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Tools

Search Tools

- 🏠 Dashboard
- 🗄 Drives
- 📱 Servers
- 📇 Virtual Machines
- 🔲 Virtual Switches
- 🗄 Volumes

Servers

Summary   Inventory

Total
4 servers

Critical	Warning	Other	Healthy
0	0	0	**4**

Alerts (0)

There are no alerts
✓

VIEW SERVER ALERTS ›

Resource usage

CPU usage ⓘ   ▏Total (3%)

3%
of 367.68 GHz

Memory usage ⓘ   ▏Total (9.4%)

9.4%

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Tools ‹

🔍 Search Tools

- 🏠 Dashboard
- 📄 Drives
- 🖥 Servers
- 📇 **Virtual Machines**
- ⊞ Virtual Switches
- 🗄 Volumes

Virtual machines   MORE COMING SOON ⓘ

Summary   Inventory

Summary

Total
20 virtual machines

Running	Off
19	1

Paused	Saved
0	0

Alerts

⊗	22 hours ago	The virtual machine is demanding more than 0.950000% of its configured maximum memory.
⊗	3 days ago	The virtual machine is demanding more than 0.950000% of its configured maximum memory.

VIEW ALL ALERTS ›   VIEW ALL EVENTS ›

Resource usage

CPU
▌Host (5.7%) ▌Guest (0.3%)

6%
of total CPU

Top CPU usage

Name	CPU usage
VM-NY-SQL3	0.3 %
VM-SEA-WEB3	0 %
VM-SEA-SEARCH3	0 %
VM-SEA-SEARCH1	0 %

Memory
▌Host (7.3%) ▌Guest (1.5%)

8.8%
of 767.68 GB

Top assigned memory

Name	Assigned memo...
vm1	0.3 %
vm-test-2	0.1 %
VM-NY-SQL3	0.1 %
VM-NY-SEARCH2	0.1 %

Performance

Live   Hour   Day   Week   Month   Year

IOPS
713 IO/s

Throughput
598 kB/s

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Tools

Search Tools

- 🏠 Dashboard
- 🗄 Drives
- 🖥 Servers
- 🖳 Virtual Machines
- ▦ Virtual Switches
- 🗄 Volumes

Volumes

Summary   Inventory

Total
10 volumes

Critical	Warning	Other	Healthy
1	1	0	8

Alerts (2)

🔴 **VOLUME NY2-WEBSTOR**   5 days ago
The volume 'NY2-WebStor' is running low on availa...

⚠️ **VOLUME NY1-WEBSTOR**   5 days ago
The volume 'NY1-WebStor' is running low on availa...

VIEW VOLUME ALERTS ›

Performance

Hour   Day   Week   Month   Year

IOPS	Latency	Throughput
51 IO/s	871.08 µs	67.9 KB/s

1 hour ago   Now   1 hour ago   Now   1 hour ago   Now

Agenda

- Geschichte des Server Managements
- Honolulu Überblick
- Was war nochmal SMT?!
- Honolulu Architektur
- Honolulu Demo
- ● Honolulu Roadmap
- Honolulu SDK

Honolulu

Windows Admin Center

MMC / RSAT / Mgmt

Roadmap

2017 – Mar 2018   **April**   **May**   **Windows Server 2019**

Project Honolulu   GA Release   SDK Public Preview   In-box installer stub
Technical Preview

SDK GA

Alpha SDK

Post GA Investments
Kontinuierliche Releases

Euer Feedback zählt

- Windows Admin Center UserVoice:
  - **>5,000 Votes**
  - über **>300 Vorschläge**

- https://aka.ms/WACFeedback

- Entwicklung:
  - Von **15** Vorschlägen, nur einie bearbeiten

Azure integration

- Core principles
  - Discover Azure services in context
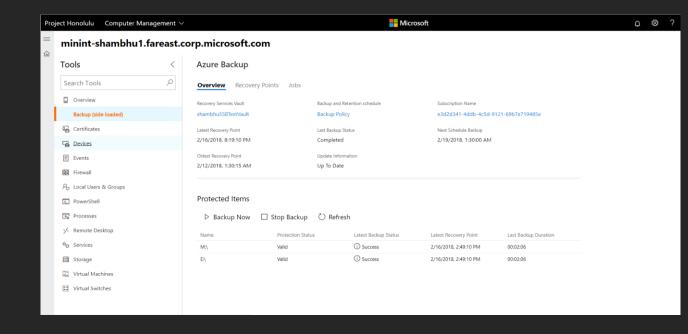
Azure Integration

Kernprinzip

- Azure Services im Kontext
- Einfaches Setup von Services ohne Verlassen
- WAC nur High-Level, Deep in Azure

Integrationen
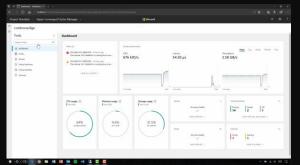
- Azure Site Recovery
- Azure Backup
- Update Management in Azure
- … und mehr!
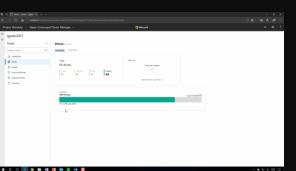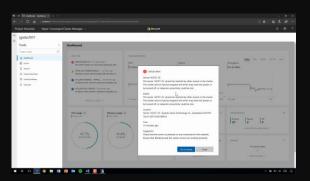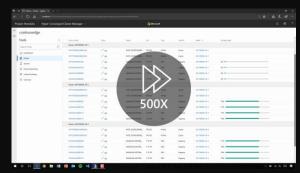
Deployment
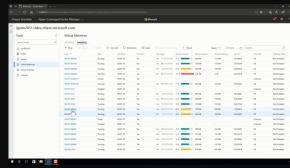
- Installation von'Honolulu' in unter 2 min
- Neues Dashboard für Hyper-Converged Infrastructure
- Hyper-V Management
- Storage Spaces Management
- Virtuelle Maschine erstellen
- Alerts und Fehlertoleraz
- Storage class memory
- Scale out mit self-balancing compute und storage
- Dedupizierung und Kompression
- Azure Site Recovery als DR
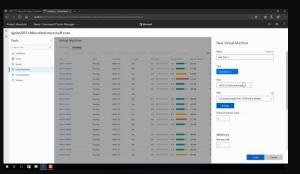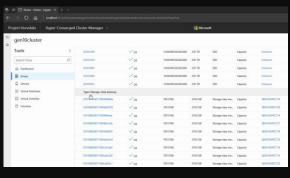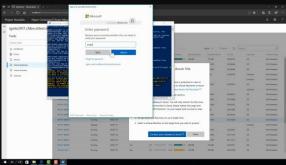
Agenda

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Honolulu
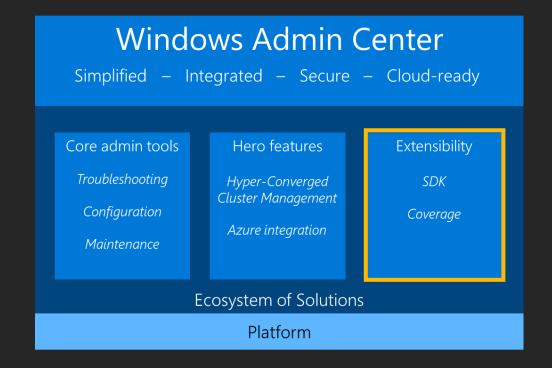
Windows Admin Center

MMC / RSAT / Mgmt

Erweiterung

- Windows Admin Center als Platform mit Hinweis zu Veränderungen

- Partner Lösungen
  - HPE
  - Jäger

- Information über das SDK ist in der Windows Admin Center Dokumentation einsehbar

Windows Admin Center

Simplified — Integrated — Secure — Cloud-ready

Core admin tools	Hero features	Extensibility
Troubleshooting	*Hyper-Converged Cluster Management*	*SDK*
Configuration		*Coverage*
Maintenance	*Azure integration*	

Ecosystem of Solutions

Platform

Windows Admin Center FAQ

Cost	Browse using	Installs on	Manages	Connectivity

No additional cost beyond Windows!	Edge
	
	Chrome
		Windows 10
		Windows Server 2019
		  (Insider Builds)
		Windows Server, version 1803
		Windows Server, version 1709
		Windows Server 2016
			Windows 10
			Windows Server 2019
			  (Insider Builds)
			Windows Server, version 1803
			Windows Server, version 1709
			Windows Server 2016
			Windows Server 2012 R2
			Windows Server 2012
				Azure not required
				Internet not required
				
				AD not required

Security	Configuration	Positioning	Feedback	Extensions
HTTPS LAPS Delegation Azure AD & MFA RBAC	IIS not required Agents not required SQL not required WMF 5.1 required on WS 2012 and 2012 R2	Evolution of "in-box" tools Complementary to RSAT, SC and OMS	Upvotes via UserVoice	SDK Public Preview May 2018

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