



veeAM



Eric Berg

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Eric Berg



Lead IT-Architect @ COMPAREX – Team Azure



Azure, Datacenter and Modern Workplace



Azure, System Center, Windows Server and Client



info@ericberg.de



[@ericberg_de](https://twitter.com/ericberg_de) | [@GeekZeugs](https://twitter.com/GeekZeugs)

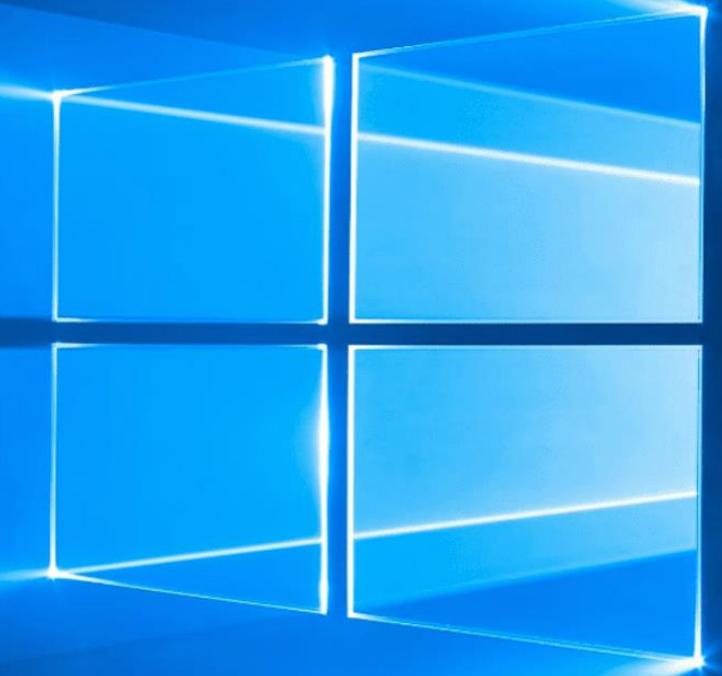


www.ericberg.de | www.geekzeugs.de

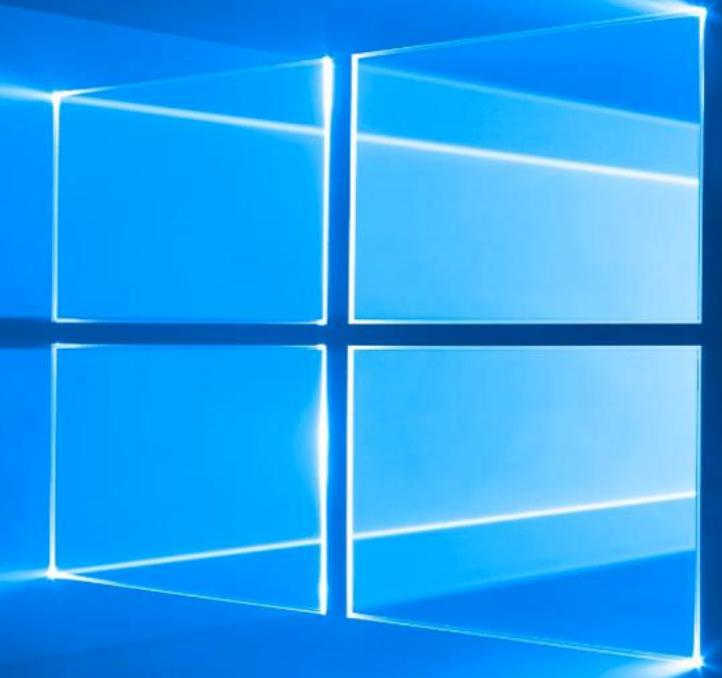


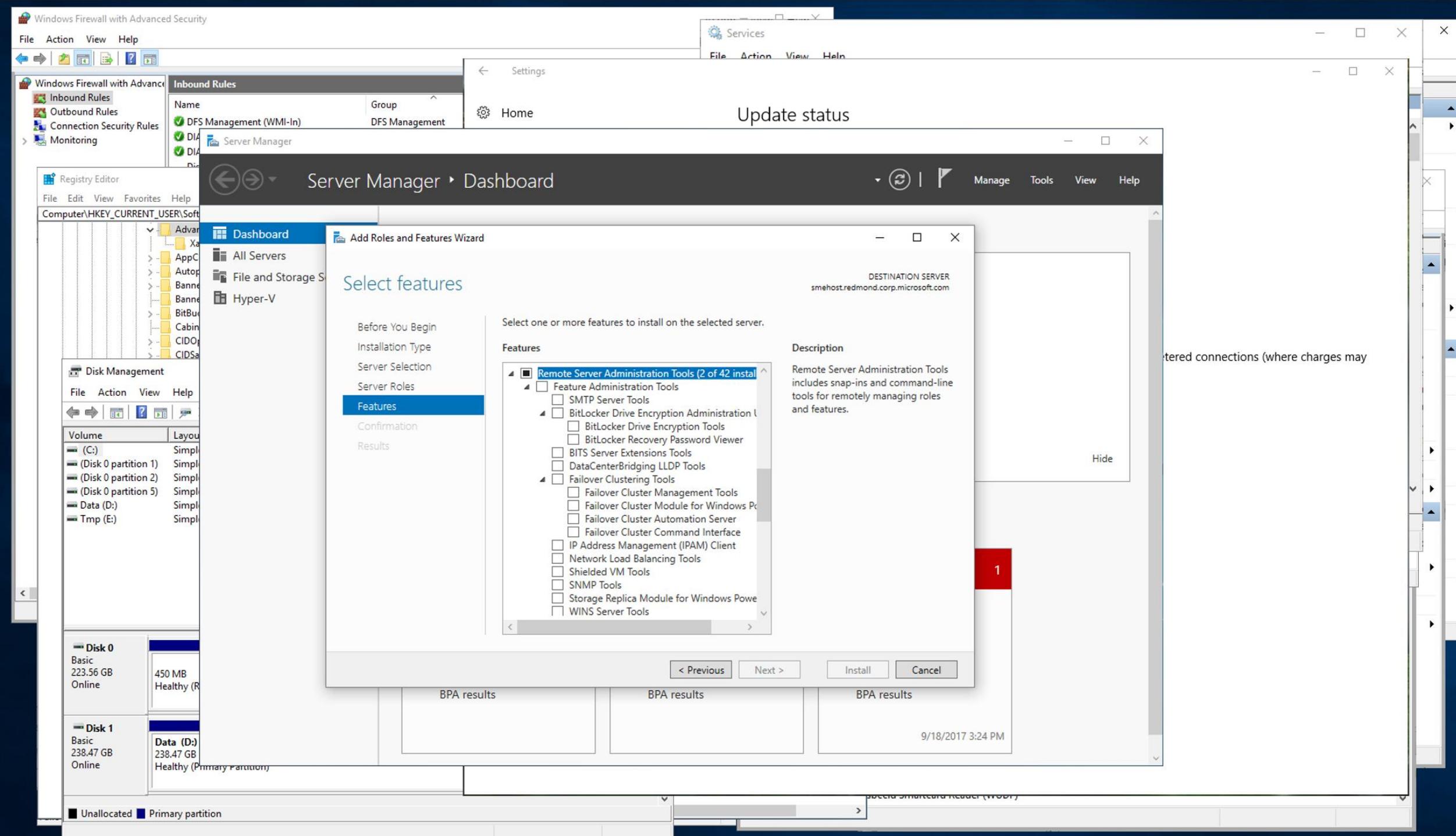
Microsoft®
Most Valuable
Professional



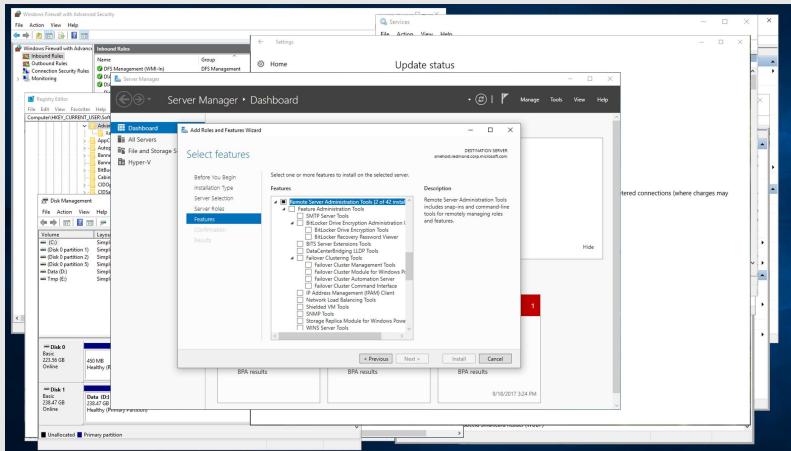


Windows Server
2016, 2012 R2, 2012, 2008 R2

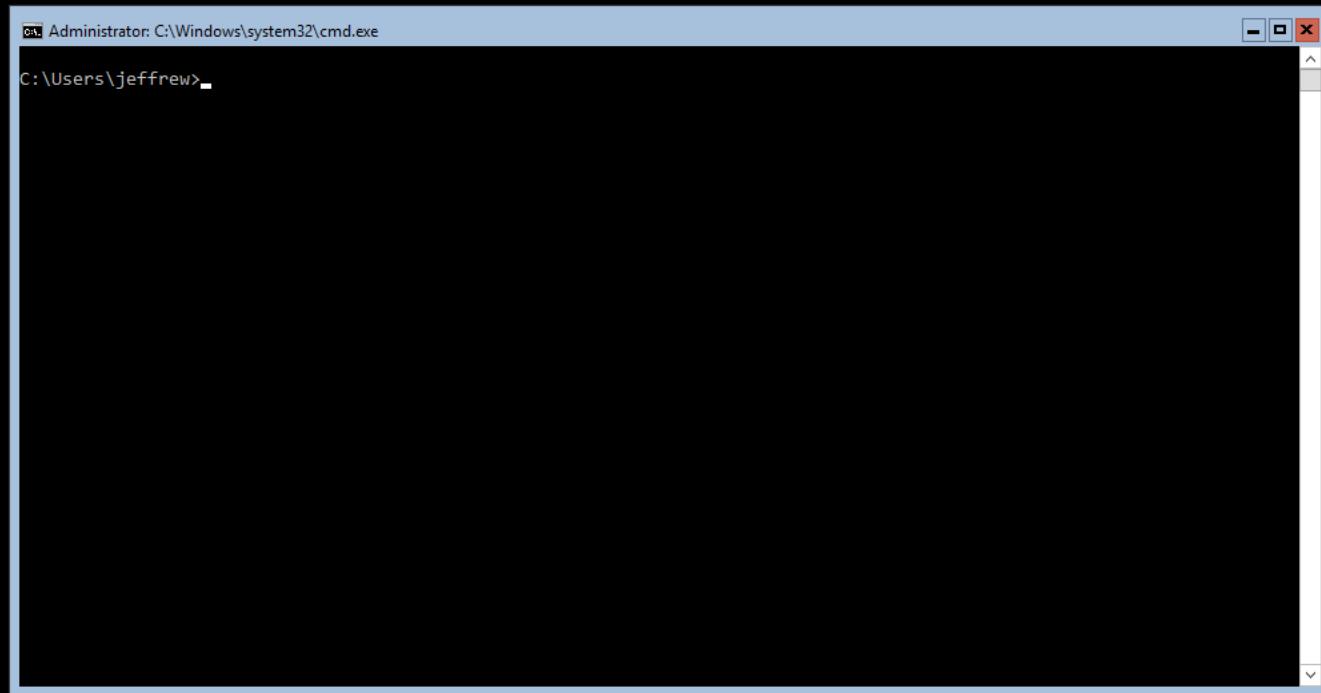




Management before Windows Admin Center

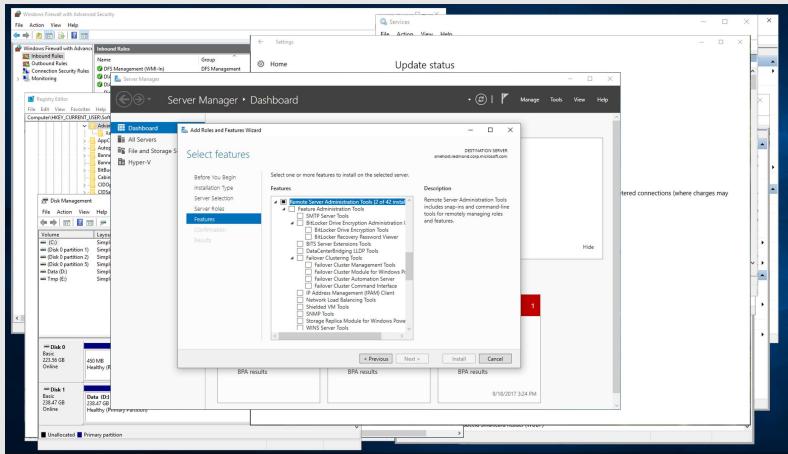


Windows Server
2016, 2012 R2, 2012, 2008 R2

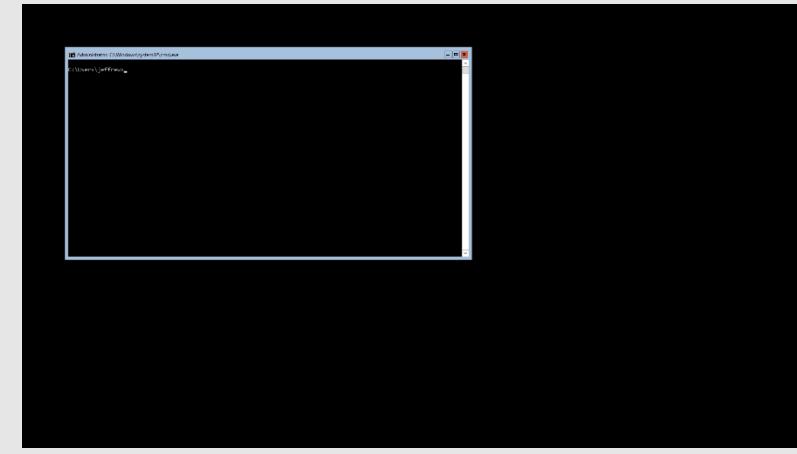


Windows Server Core
SAC, 2016, 2012 R2, 2012

Management before Windows Admin Center



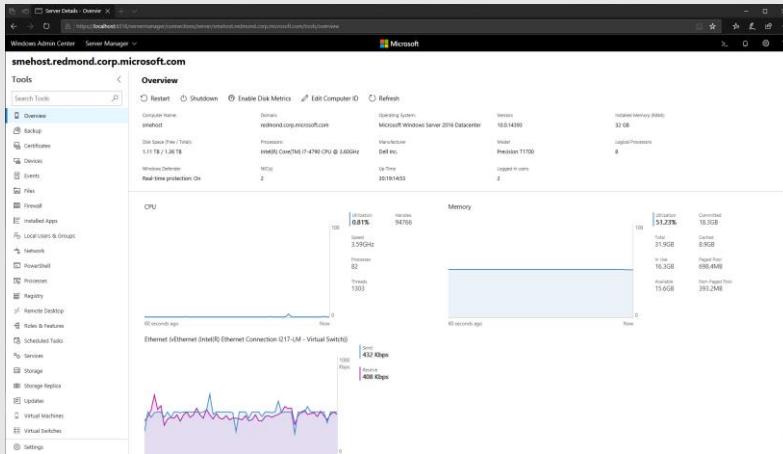
Windows Server
2016, 2012 R2, 2012, 2008 R2



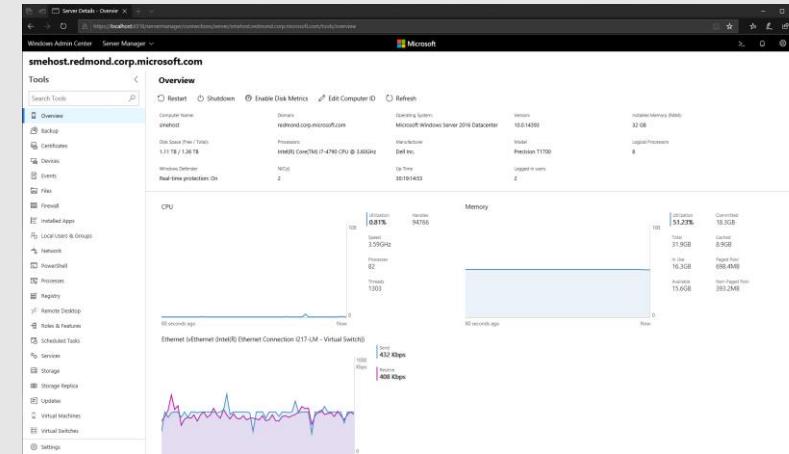
Windows Server Core
SAC, 2016, 2012 R2, 2012

Management with Windows Admin Center

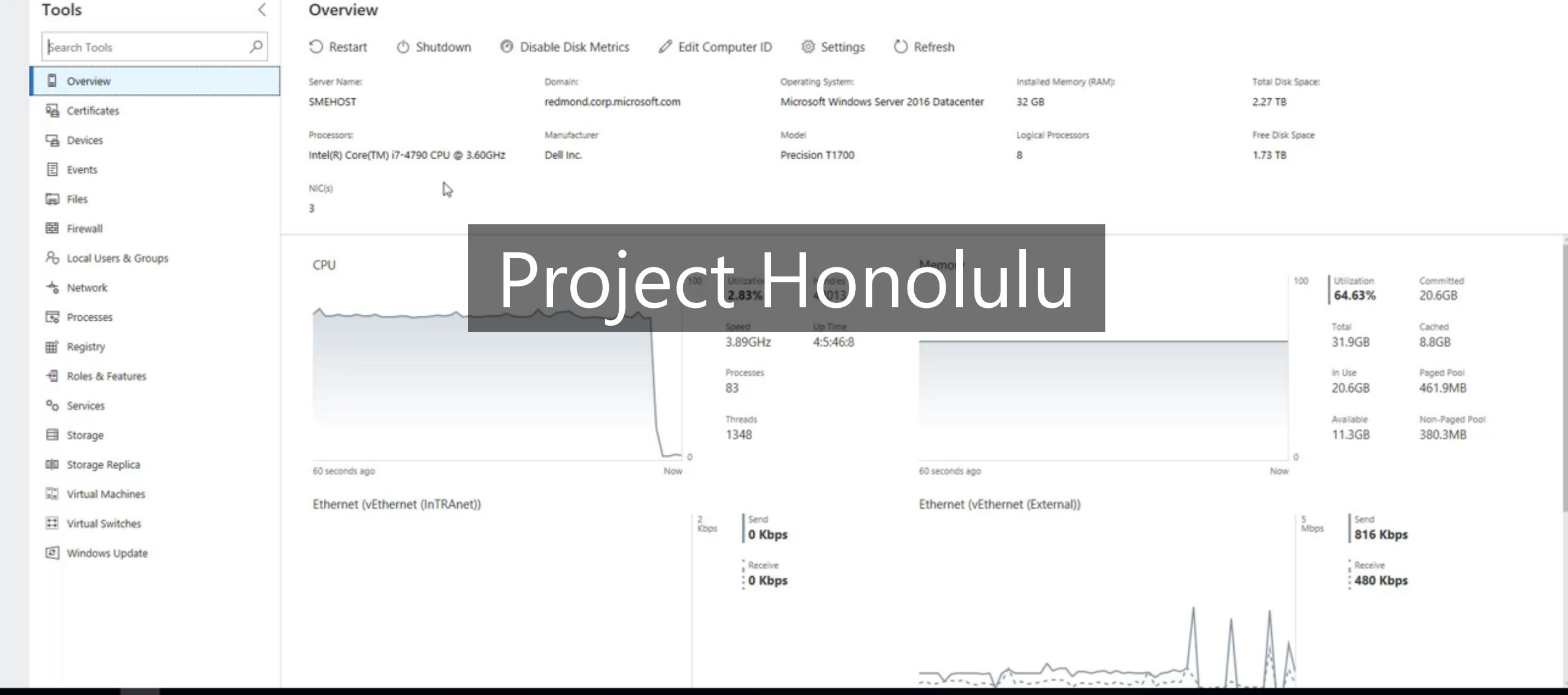
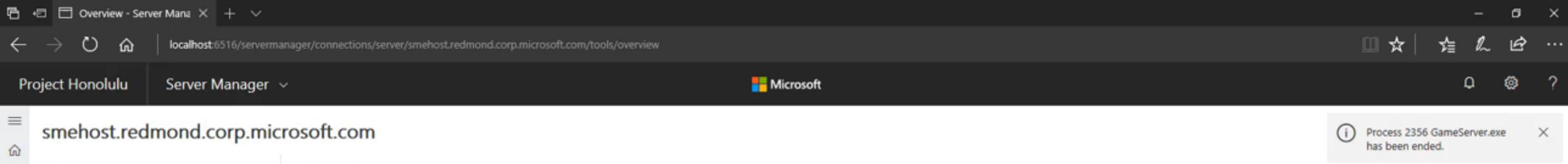
Modernized – Simplified - Integrated



Windows Server
2016, 2012 R2, 2012, 2008 R2



Windows Server Core
SAC, 2016, 2012 R2, 2012



smehost.redmond.corp.microsoft.com

Tools

Search Tools



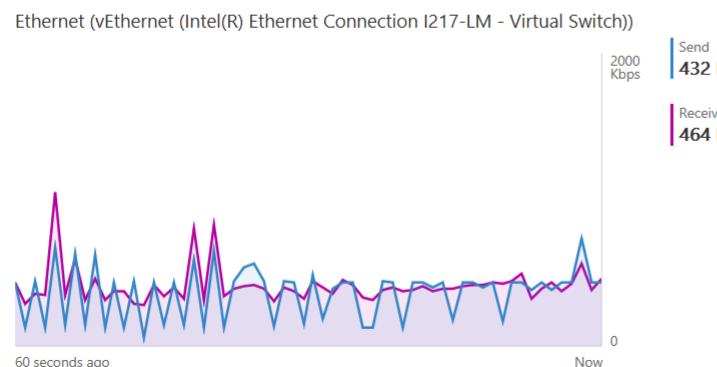
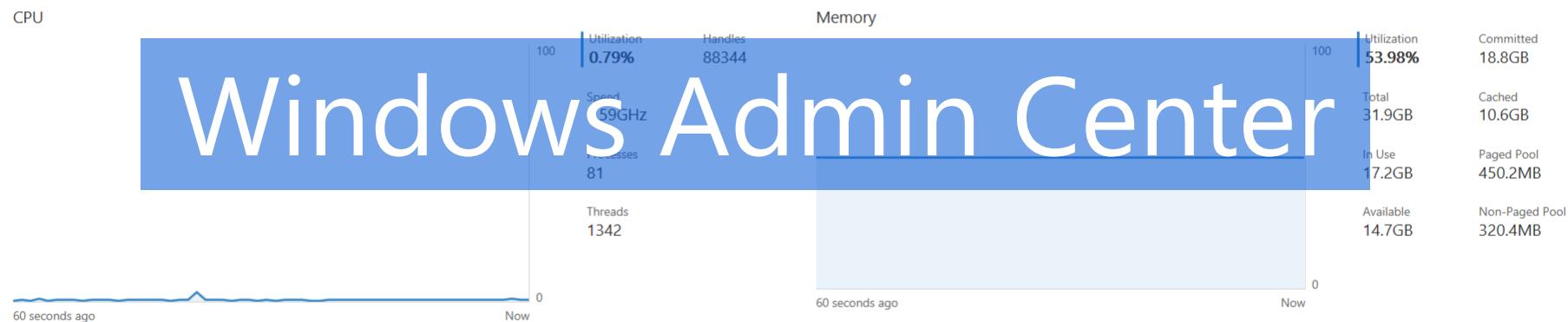
Overview

 Restart  Shutdown  Enable Disk Metrics  Edit Computer ID  Refresh

Computer Name: Domain: Operating System: Version: Installed Memory (RAM)
smehost redmond.corp.microsoft.com Microsoft Windows Server 2016 Datacenter 10.0.14393 32 GB

Disk Space (Free / Total):	Processors:	Manufacturer	Model	Logical Processors
1.11 TB / 1.36 TB	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	Dell Inc.	Precision T1700	8

Windows Defender	NIC(s)	Azure Backup Status	Up Time	Logged in user
Real-time protection: On	2	Not Protected	23:19:43:14	2





Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



Secure, cloud-ready, extensible

Platform



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Tools

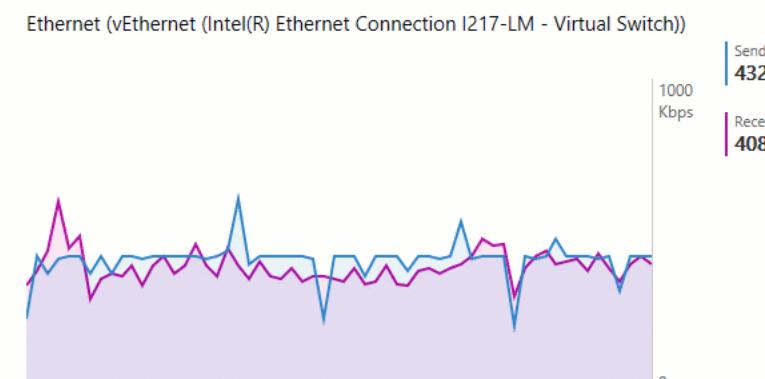
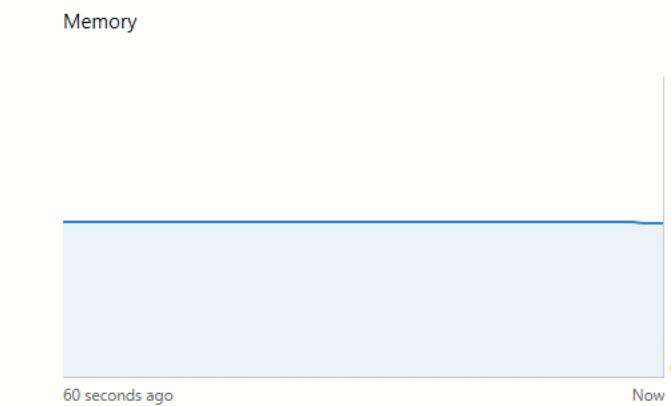
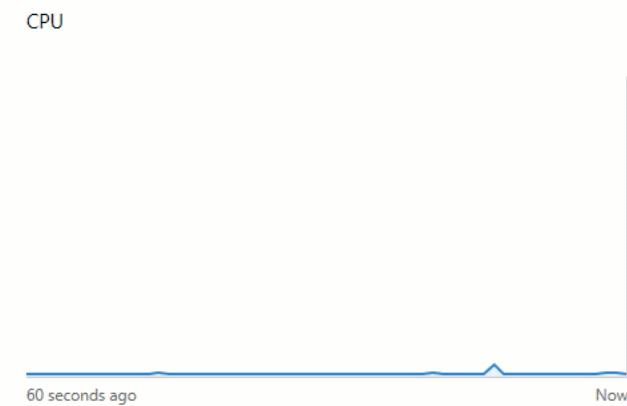
Search Tools

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 -  Roles & Fea
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 -  Virtual Mach
 - Virtual Switch
 - Settings

Overview

-  Restart  Shutdown  Enable Disk Metrics  Edit Computer ID  Refresh

Computer Name:	Domain:	Operating System:	Version:	Installed Memory (RAM)
smehost	redmond.corp.microsoft.com	Microsoft Windows Server 2016 Datacenter	10.0.14393	32 GB
Disk Space (Free / Total):	Processors:	Manufacturer	Model	Logical Processors
1.11 TB / 1.36 TB	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	Dell Inc.	Precision T1700	8
Windows Defender	NIC(s)	Up Time	Logged in users	
Real-time protection: On	2	30:19:14:53	2	



sme-cluster4.redmond.corp.microsoft.com

Tools

Dashboard

COMPUTE

Virtual Machines

Virtual Switches

Servers

STORAGE

Volumes

Drives

TOOLS

Updates

Dashboard

Health

Alerts (Total 4)

CLUSTER SME-CLUSTER4 3 days ago
Windows Server is consuming more than 50.000000 % of physical memory, which exceeds your configured threshold.

[View all](#)

Servers (Total 5)

All servers healthy

Drives (Total 10)

All drives healthy

Virtual machines (Total 7)

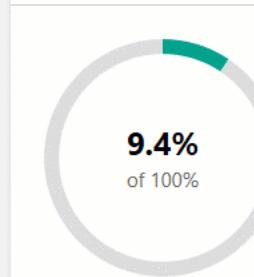
Running 2 Off 5

Volumes (Total 2)

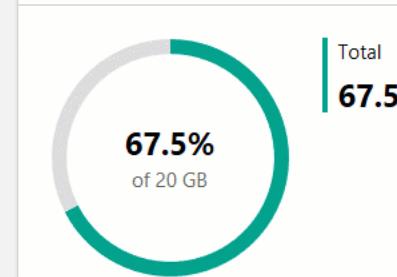
All volumes healthy

Resource consumption

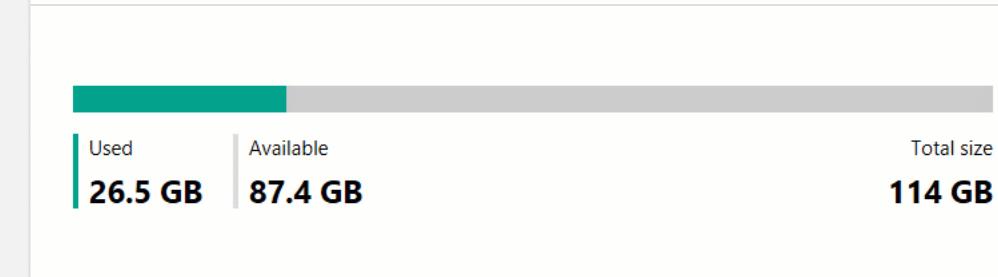
CPU usage



Memory usage



Storage usage



Performance

Tools

Roles and Features

[+ Install](#) [— Remove](#)

265 items 1 selected X



Name	State	Type
Roles	3 of 95 Installed	
Active Directory Certificate Services	0 of 6 Installed	Role
Certificate Enrollment Policy Web Service	Available	Role Service
Certificate Enrollment Web Service	Available	Role Service
✓ Certification Authority	Available	Role Service
Certification Authority Web Enrollment	Available	Role Service
Network Device Enrollment Service	Available	Role Service
Online Responder	Available	Role Service
Active Directory Domain Services	Available	Role
Active Directory Federation Services	Available	Role
Active Directory Lightweight Directory Services	Available	Role
> Active Directory Rights Management Services	0 of 2 Installed	Role
Device Health Attestation	Available	Role
DHCP Server	Available	Role
DNS Server	Available	Role
Fax Server	Available	Role
> File and Storage Services	2 of 12 Installed	Role
Host Guardian Service	Available	Role
Hyper-V	Installed	Role

Details - Certification Authority (1 Selected)

Description

Certification Authority (CA) is used to issue and manage certificates. Multiple CAs can be linked to form a public key infrastructure.



i Install Roles and Features submitted

sme-server8.redmond.corp.micro... 9/17/2018, 2:30:29 PM

265 items 1 selected  

State	Type
3 of 95 Installed	
0 of 6 Installed	Role
Available	Role Service
Available	Role
Available	Role
Available	Role
0 of 2 Installed	Role
Available	Role
Available	Role



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User Experience



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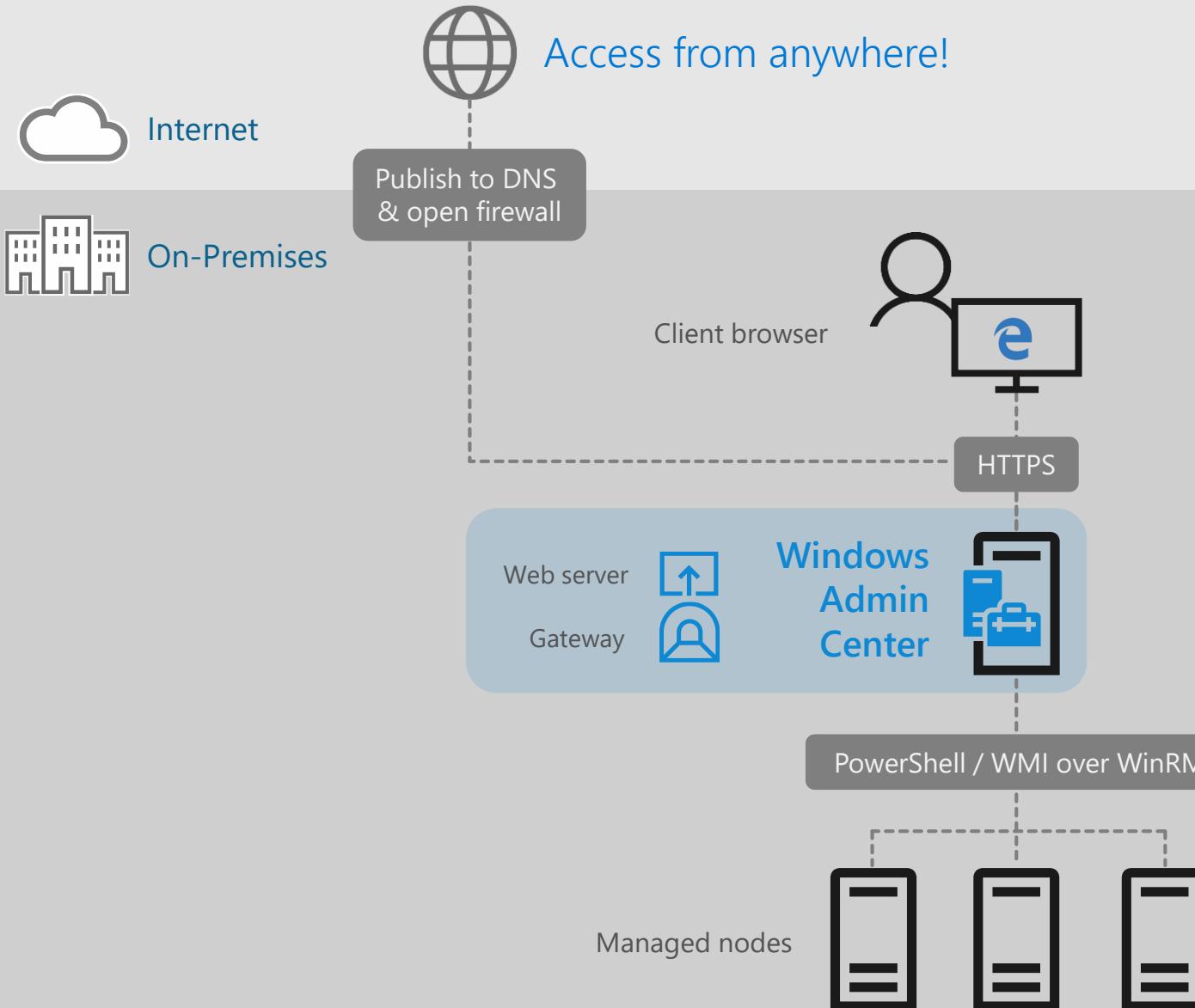
Partner Ecosystem



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Lightweight & fast deployment



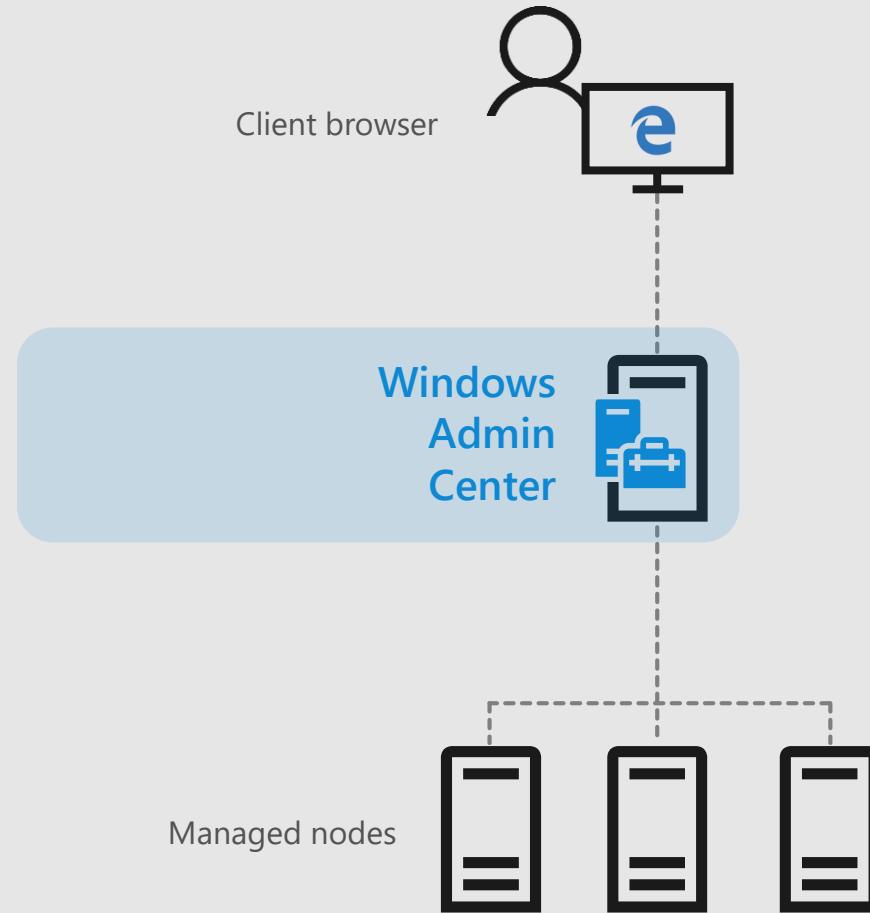
Internet connection not required

Connect from a modern browser

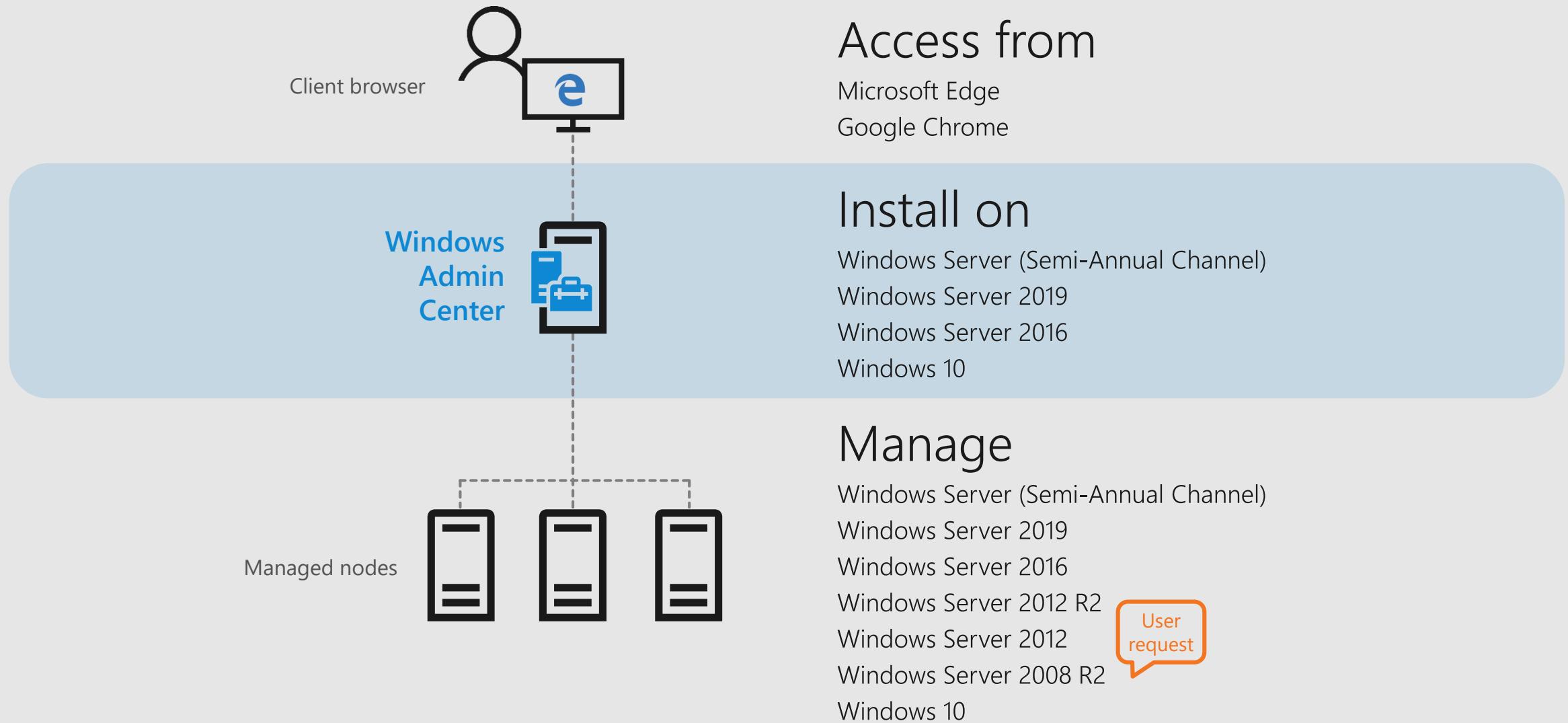
~60 MB installer, install in minutes

No agent installation required

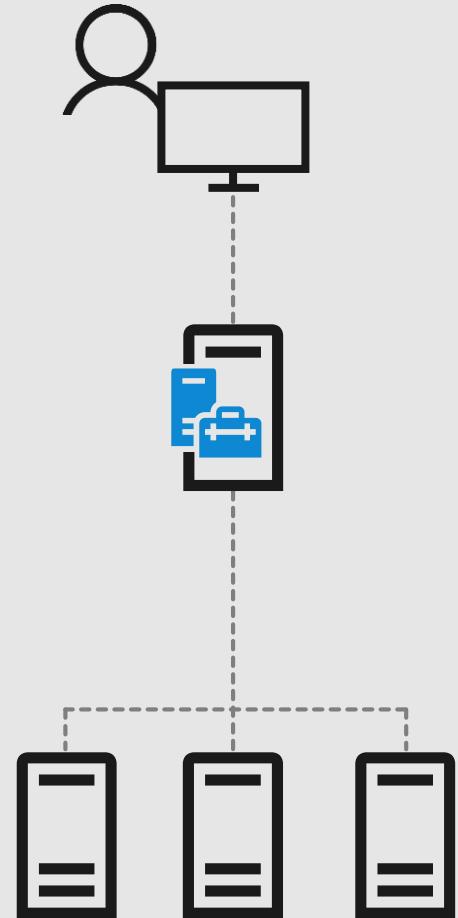
Lightweight & fast deployment



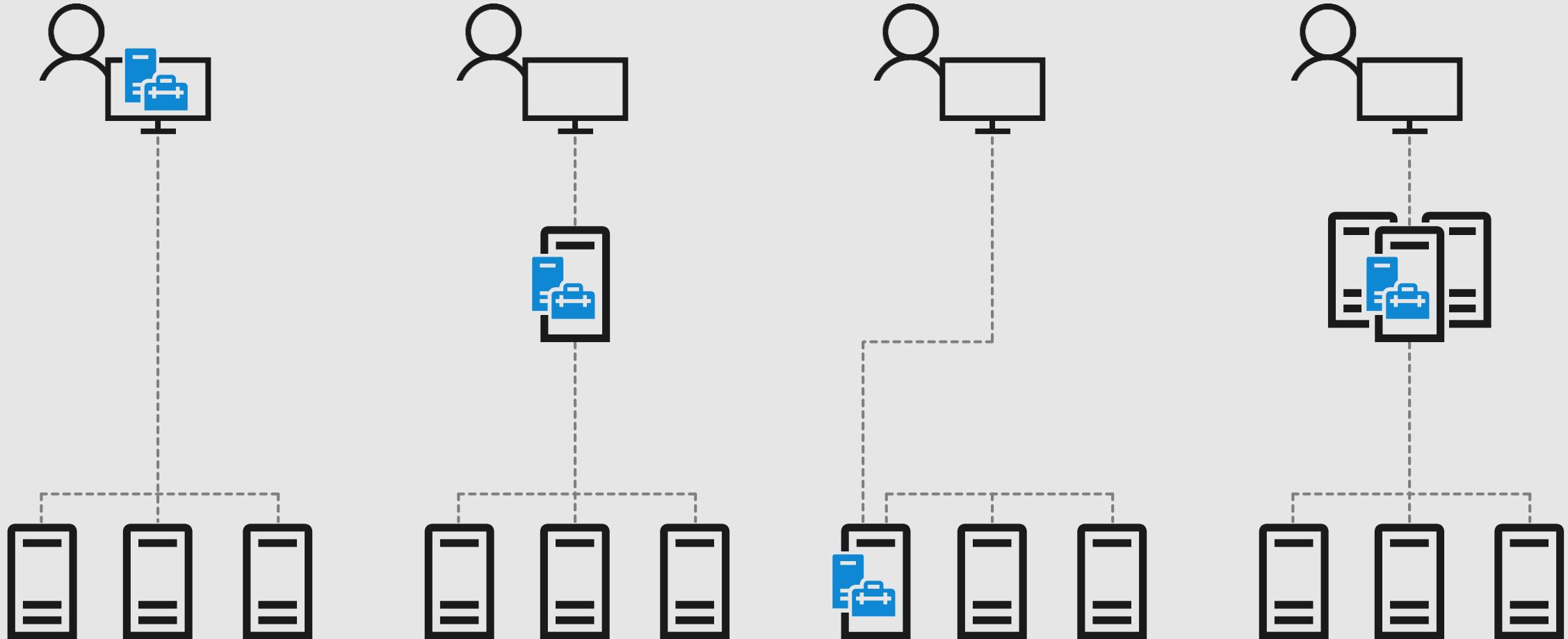
Flexible deployment options



Flexible deployment options



Flexible deployment options



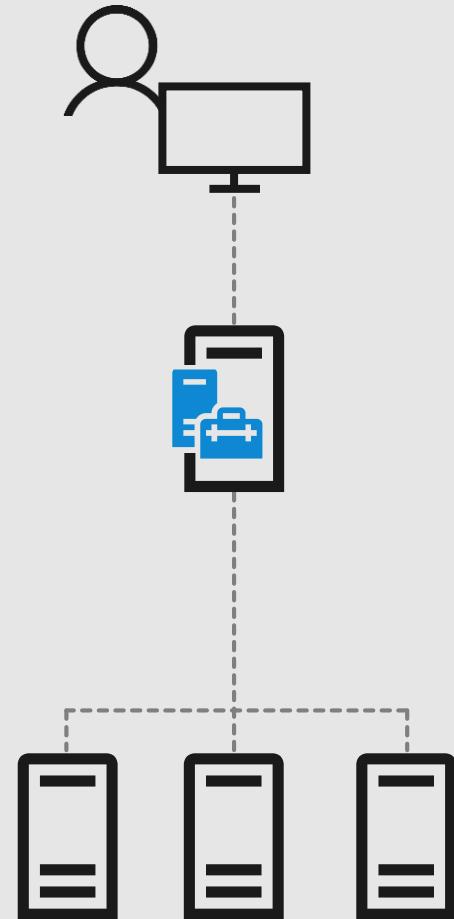
Windows 10 desktop

Dedicated gateway server

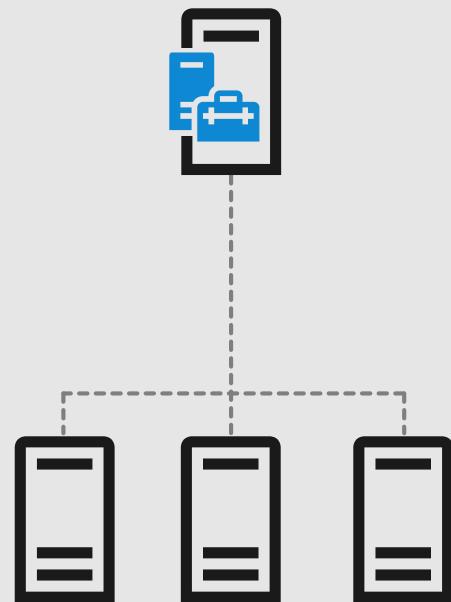
Managed node

High availability

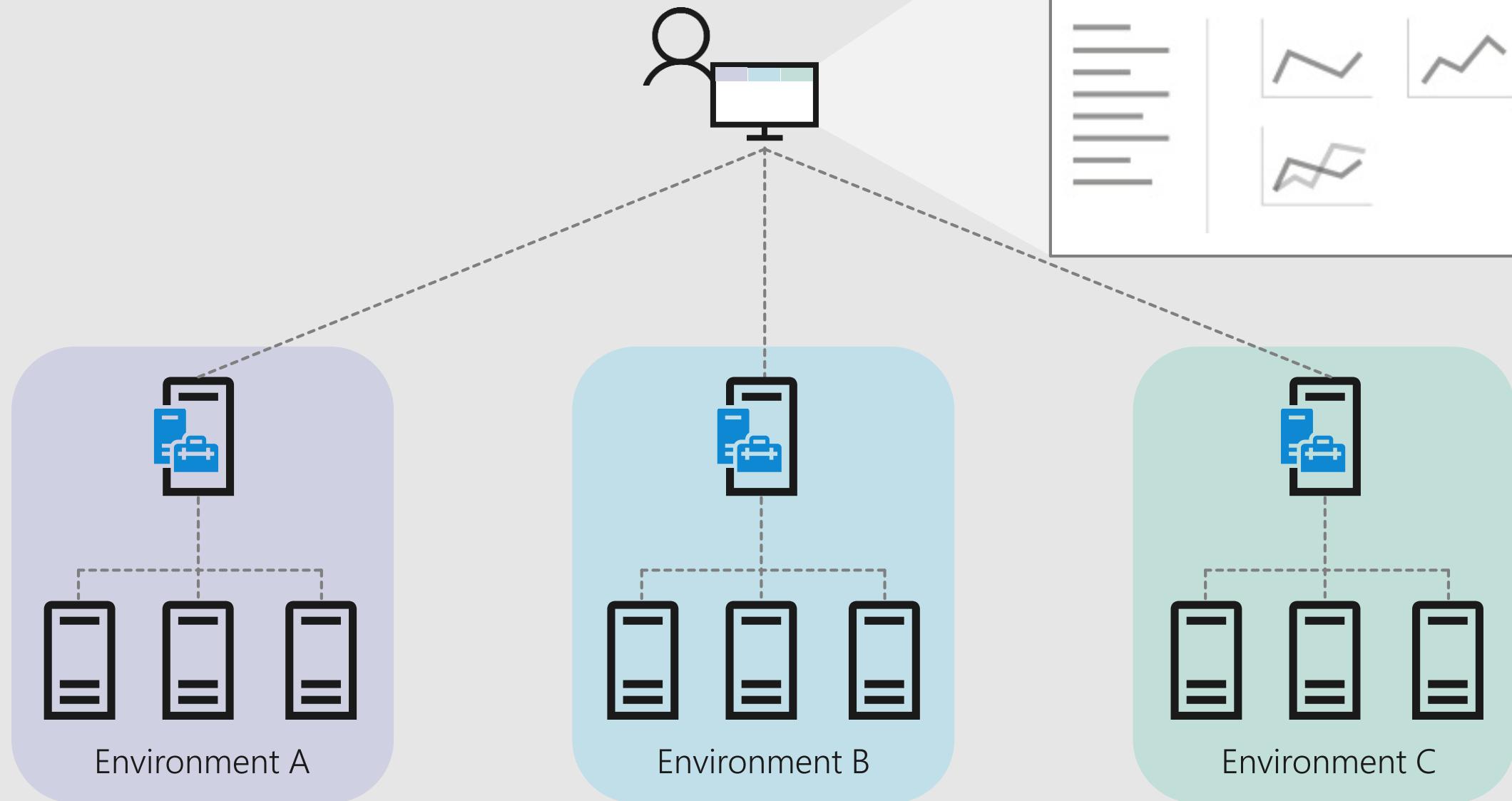
Flexible deployment options



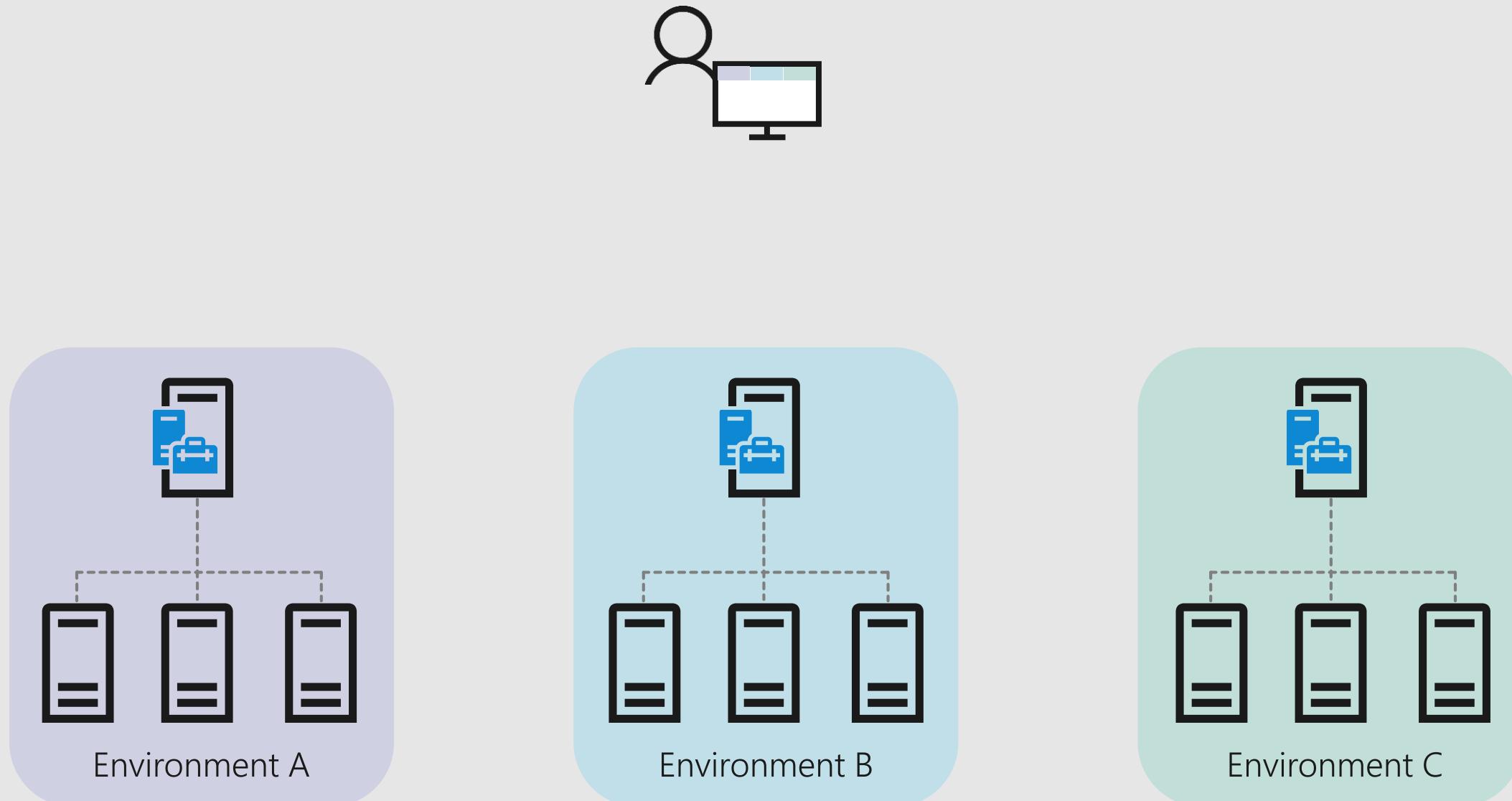
Flexible deployment options



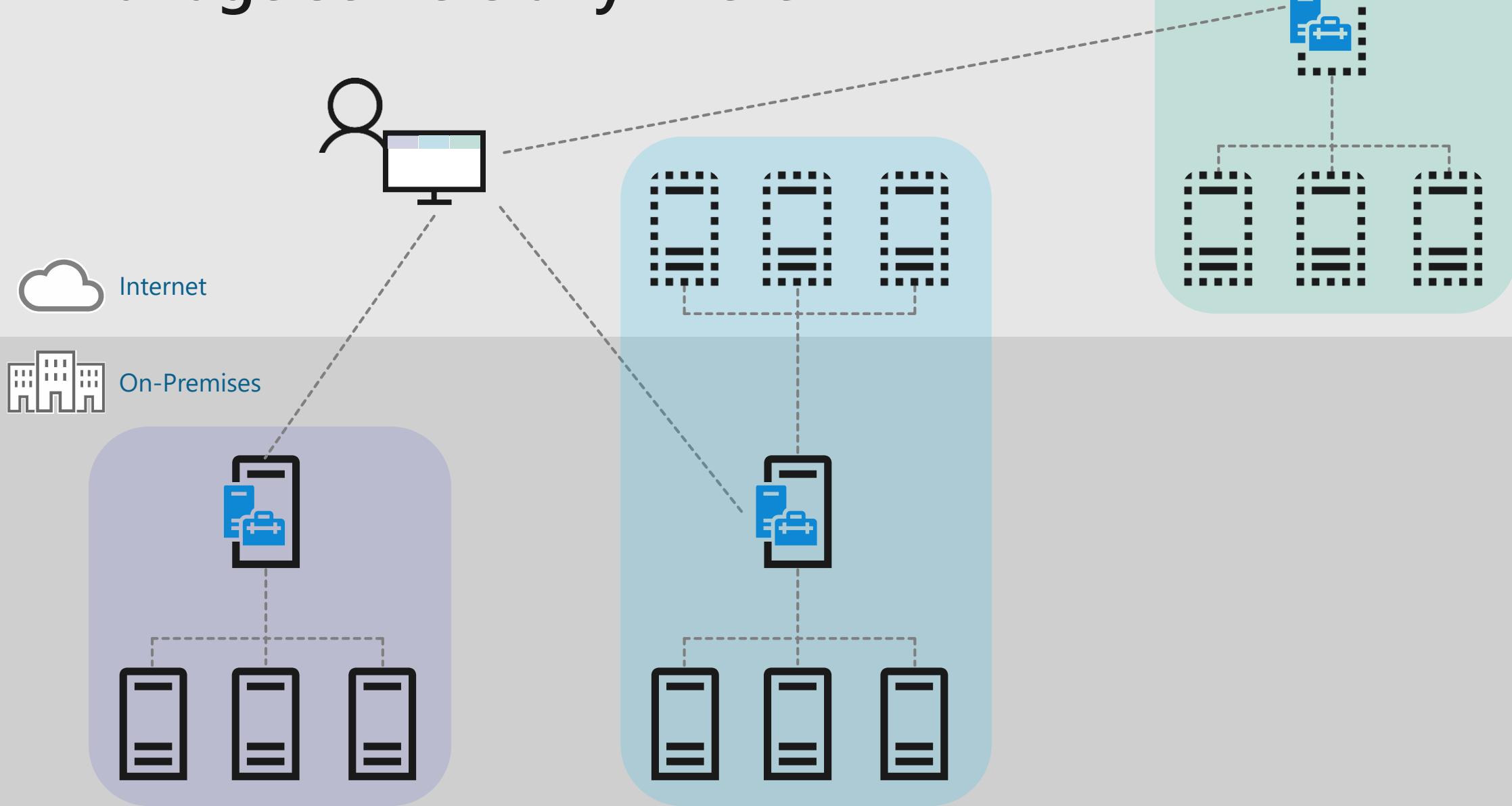
Manage multiple environments



Manage multiple environments



Manage servers anywhere





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User Experience



Core tools



HCI Management



Security



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Platform

Troubleshooting, configuration, and maintenance

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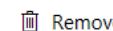
sme-server8.redmond.corp.microsoft.com

Tools



Installed Apps

PREVIEW ⓘ



Remove

5 items



Search



Name	Publisher	Installed On	Size	Version
Microsoft TelemetryHost Service	Microsoft Corporation	9/4/2018	5.98 MB	3.0.0
Microsoft Visual C++ 2013 Redistributable (x86) - 12.0....	Microsoft Corporation	-	17.2 MB	12.0.40660.0
Legacy Virtual Smartcard Removal Tool	Microsoft Core Services Engineering and Operations (...)	8/28/2018	24 KB	1.0.4.0
Microsoft Visual C++ 2013 Redistributable (x64) - 12.0....	Microsoft Corporation	-	20.6 MB	12.0.40660.0
Windows Firewall Configuration Provider	Microsoft Corporation	8/27/2018	342 KB	1.2.3412.0

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Windows Firewall Configuration Provider Properties

Name:	Publisher:	Installed On:	Version:	Size:
Windows Firewall Configuration Provider	Microsoft Corporation	2018-08-27T00:00:00	1.2.3412.0	342 KB

Settings

Installed Apps

PREVIEW ⓘ



Remove

5 items



Search



<input type="checkbox"/>	Name	Publisher	Installed On	Size	Version
	Microsoft TelemetryHost Service	Microsoft Corporation	9/4/2018	5.98 MB	3.0.0.0
	Microsoft Visual C++ 2013 Redistributable (x86) - 12.0....	Microsoft Corporation	-	17.2 MB	12.0.40660.0
	Legacy Virtual Smartcard Removal Tool	Microsoft Core Services Engineering and Operations (...)	8/28/2018	24 KB	1.0.4.0
	Microsoft Visual C++ 2013 Redistributable (x64) - 12.0....	Microsoft Corporation	-	20.6 MB	12.0.40660.0
✓	Windows Firewall Configuration Provider	Microsoft Corporation	8/27/2018	342 KB	1.2.3412.0

Windows Firewall Configuration Provider Properties

Name:

Windows Firewall Configuration Provider

Publisher:

Microsoft Corporation

Installed On:

2018-08-27T00:00:00

Version:

1.2.3412.0

Size:

342 KB

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PREVIEW

Task Scheduler Library

CSEO

Microsoft

Configuration Manager

Windows

.NET Framework

Active Directory Rights Manage...

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Application Experience

ApplicationData

AppxDeploymentClient

Autochck

Bluetooth

CertificateServicesClient

Chkdsk

Clip

CloudExperienceHost

Customer Experience Improvem...

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Defrag

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DiskCleanup

DiskDiagnostic

DiskFootprint

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LanguageComponentsInstaller

License Manager

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\Microsoft\Windows\ApplicationData

Create

Enable

Disable

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Stop

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4 items

Search

Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result	Author	Created
appuriverifierdaily	Ready	Daily	9/22/2018, 3:00 AM	9/17/2018, 3:00 AM	The operation completed...	Microsoft Corporation	
appuriverifierinstall	Ready	Task, Weekly	9/22/2018, 3:00 AM	9/15/2018, 3:00 AM	The operation completed...	Microsoft Corporation	
CleanupTemporaryState	Ready	None		9/17/2018, 6:02 PM	The operation completed...	Microsoft Corporation	
DsSvcCleanup	Ready	None		9/17/2018, 6:02 PM	(0x800706d9)	Microsoft Corporation	

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Tools



Scheduled Task CleanupTemporaryState

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General

General

Triggers	Task name
Actions	CleanupTemporaryState
Conditions	Task Path \Microsoft\Windows\ApplicationData\
Settings	Author Microsoft Corporation
	Description Cleans up each package's unused temporary files.

Save

Discard

Close

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Tools



Scheduled Task CleanupTemporaryState

General

Triggers

Triggers

[+ Add](#) [Edit](#) [Delete](#)

0 items

Actions

Trigger

Details

Status

Conditions

No records found

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[Close](#)

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Triggers

[+ Add](#) [Edit](#) [Delete](#)

Actions

Trigger

Details

Conditions

No records found

Settings

[Close](#)

Task Trigger

Specify the conditions that will trigger the task.

Trigger Type

Daily

Trigger Start At

* Required

9/26/2018 4:20 PM

Recur every (days)

1

 Delay task for upto (Random delay)

30 Seconds

 Repeat task every

Repeat task every

5 Minutes

For a duration of

15 Minutes

 Stop all running task at end of repetition duration Stop task if runs longer than

30 Minutes

[Submit](#)[Cancel](#)

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General

Actions

Triggers

+ Add Edit Delete

1 item

Actions

Action

Details

Working Directory

Conditions

Start a program

%windir%\system32\rundll32.exe Windows.Storage.ApplicationData.dll,CleanupTemp...

Settings

Close

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Tools



Scheduled Task CleanupTemporaryState

General

Conditions

Triggers

Specify the condition that along with the trigger, determine whether the task should run. The task will not run if any condition specified here is not true.

Actions

Idle

Conditions

Start Task only if the computer is idle for:

Wait for idle for:

Stop if the computer ceases to be idle.

Restart if the idle state resumes.

Power

Start the task only if the computer is on AC power.

Stop if the computer switches to battery power.

Wake the computer to run this task.

Save

Discard

Close

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Tools



Scheduled Task CleanupTemporaryState

General

Settings

Triggers

Specify additional settings that affect the behaviour of the task.

Actions

Allow task to run on demand

Conditions

Run task as soon as possible after a scheduled start is missed

Settings

If the task fails, restart every:

▼

Attempt to restart up to:

0

Stop task if runs longer than:

▼

If the running task does not end when requested, force it to stop

If the task is not scheduled to run again, delete it after

▼

Save

Discard

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Tools



Virtual machines

Summary Inventory

+ New

Delete

Start

Turn off

Shut down

Save

More

18 items



Search...



Name ↑	State	Host server	CPU usage	Memory pres...	Memory dem...	Assigned me...	Uptime	Heartbeat	Disaster...
SEA-SEARCH-1	Running	K47N2	0 %	-	0 B	0 B	0:00:00:00		Not protected
SEA-SEARCH-2	Running	K47N2	19 %	78 %	399 MB	512 MB	2:13:44:56	No contact	Not protected
SEA-SEARCH-3	Running	K47N1	5 %	82 %	511 MB	624 MB	2:02:20:57	No contact	-
SEA-SEARCH-4	Stopped	K47N1	-	-	-	-	-		-
SEA-SQL-1	Running	K47N2	0 %	73 %	373 MB	512 MB	2:13:53:09	No contact	Not protected
SEA-SQL-2	Running	K47N2	0 %	72 %	368 MB	512 MB	2:13:51:21	No contact	Not protected
SEA-SQL-3	Stopped	K47N2	-	-	-	-	-		Not protected
SEA-SQL-4	Running	K47N2	17 %	146 %	747 MB	512 MB	0:01:21:13	No contact	Not protected
SEA-VM-1	Running	K47N2	0 %	72 %	368 MB	512 MB	2:13:49:46	No contact	Not protected
SEA-VM-2	Running	K47N2	0 %	-	0 B	0 B	0:00:00:00		Not protected
SEA-VM-3	Running	K47N2	0 %	-	0 B	0 B	0:00:00:00		Not protected
SEA-VM-4	Running	K47N2	0 %	-	0 B	0 B	0:00:00:00		Not protected
SEA-WEB-1	Running	K47N2	0 %	72 %	368 MB	512 MB	2:13:58:04	No contact	Not protected
SEA-WEB-2	Running	K47N2	0 %	72 %	368 MB	512 MB	2:13:56:28	No contact	Not protected
SEA-WEB-3	Running	K47N2	0 %	72 %	368 MB	512 MB	2:13:54:46	No contact	Not protected
SEA-WEB-4	Running	K47N1	21 %	82 %	564 MB	688 MB	2:02:31:03	No contact	-
SEA-WEB-5	Running	K47N2	0 %	72 %	368 MB	512 MB	1:23:51:54	No contact	Not protected
SEA-WEB-6	Running	K47N2	0 %	73 %	373 MB	512 MB	1:23:21:53	No contact	Not protected

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Tools



Virtual machines

Summary Inventory

+ New Delete Start Turn off Shut down Save More

19 items

Search...

Name ↑	State	Host server	CPU usage	Memory pres...	Memory dem...	Assigned me...	Uptime	Heartbeat	Disaster...
New VM	Running	K47N2	11 %	-	0 B	0 B	0:00:00:00		Not protected
SEA-SEARCH-1	Running	K47N1	0 %	72 %	368 MB	512 MB	0:11:23:38	No contact	Not protected
SEA-SEARCH-2	Running	K47N1	17 %	81 %	414 MB	512 MB	0:11:23:31	No contact	Not protected
SEA-SEARCH-3	Running	K47N1	3 %	82 %	524 MB	640 MB	0:11:23:31	No contact	Not protected
SEA-SEARCH-4	Running	K47N1	0 %	72 %	368 MB	512 MB	0:23:25:53	No contact	Not protected
SEA-SQL-1	Running	K47N1	0 %	73 %	373 MB	512 MB	0:11:23:33	No contact	Not protected
SEA-SQL-2	Running	K47N1	0 %	72 %	368 MB	512 MB	0:23:16:35	No contact	Not protected
SEA-SQL-3	Stopped	K47N1	-	-	-	-	-		Not protected
SEA-SQL-4	Running	K47N1	17 %	146 %	747 MB	512 MB	0:11:23:54		Not protected
SEA-VM-1	Stopped	K47N1	-	-	-	-	-		Not protected
SEA-VM-2	Stopped	K47N1	-	-	-	-	-		Not protected
SEA-VM-3	Stopped	K47N1	-	-	-	-	-		Not protected
SEA-VM-4	Running	K47N1	0 %	82 %	428 MB	522 MB	0:11:23:37	No contact	Not protected
SEA-WEB-1	Running	K47N1	0 %	73 %	373 MB	512 MB	0:11:23:42	No contact	Not protected
SEA-WEB-2	Running	K47N1	0 %	72 %	368 MB	512 MB	0:11:23:32	No contact	Not protected
SEA-WEB-3	Running	K47N1	0 %	72 %	368 MB	512 MB	0:11:23:33	No contact	Not protected
SEA-WEB-4	Running	K47N1	0 %	72 %	368 MB	512 MB	0:11:23:30	No contact	Not protected
SEA-WEB-5	Running	K47N1	0 %	72 %	368 MB	512 MB	0:11:23:30	No contact	Not protected
SEA-WEB-6	Running	K47N1	0 %	73 %	373 MB	512 MB	0:11:24:16	No contact	Not protected

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Search...

 Name ↑

State

Host server

CPU usage

Memo

 [New VM](#)

Running

K47N2

11 %



-

 [SEA-SEARCH-1](#)

Running

K47N1

0 %



72 %

 [SEA-SEARCH-2](#)

Running

K47N1

17 %



81 %

 [SEA-SEARCH-3](#)

Running

K47N1

3 %



82 %

 [SEA-SEARCH-4](#)

Running

K47N1

0 %



72 %

 [SEA-SQL-1](#)

Running

K47N1

0 %



73 %

 [SEA-SQL-2](#)

Running

K47N1

0 %



72 %

 [SEA-SQL-3](#)

Stopped

K47N1

-



-

 [SEA-SQL-4](#)

Running

K47N1

17 %



146 %

 [SEA-VM-1](#)

Stopped

K47N1

-



-

 [SEA-VM-2](#)

Stopped

K47N1

-



-

 [SEA-VM-3](#)

Stopped

K47N1

-



-

 [SEA-VM-4](#)

Running

K47N1

0 %



82 %

 [SEA-WEB-1](#)

Running

K47N1

0 %



73 %

 [SEA-WEB-2](#)

Running

K47N1

0 %



72 %

 [SEA-WEB-3](#)

Running

K47N1

0 %



72 %

 [SEA-WEB-4](#)

Running

K47N1

0 %



72 %

 [SEA-WEB-5](#)

Running

K47N1

0 %



72 %

 [SEA-WEB-6](#)

Running

K47N1

0 %



73 %

 Delete saved state

II Pause

▷ Resume

⟳ Reset

🕒 New checkpoint

⚙ Settings

→ Move

✍ Rename

🔗 Connect

⬇ Download RDP file

⬇ Set up VM Protection

me...

Uptime

Heartbeat

Disaster...

0:00:00:00

Not protected

0:11:23:38

Not protected

0:11:23:31

Not protected

0:11:23:31

Not protected

0:23:25:53

Not protected

0:11:23:33

Not protected

0:23:16:35

Not protected

-

Not protected

0:11:23:54

Not protected

-

Not protected

-

Not protected

-

Not protected

0:11:23:37

No contact

0:11:23:42

No contact

0:11:23:32

No contact

0:11:23:33

No contact

0:11:23:30

No contact

0:11:23:30

No contact

0:11:24:16

No contact

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□ Shut down

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Search...



Name ↑	State	Host server	CPU usage	Memory pres...	Memory dem...	Assigned me...	Uptime	Heartbeat	Disaster...
SEA-SEARCH-1	Running	K47N2	0 %	<div style="width: 73%;">73 %</div>	<div style="width: 37%;">373 MB</div>	512 MB	0:00:19:35	No contact	Not protected
SEA-SEARCH-2	Running	K47N2	20 %	<div style="width: 78%;">78 %</div>	<div style="width: 22%;">399 MB</div>	512 MB	2:14:04:57	No contact	Not protected
SEA-SEARCH-3	Running	K47N1	3 %	<div style="width: 85%;">85 %</div>	<div style="width: 15%;">530 MB</div>	624 MB	2:02:40:58	No contact	-
SEA-SEARCH-4	Running	K47N1	5 %	<div style="width: 78%;">78 %</div>	<div style="width: 22%;">399 MB</div>	512 MB	0:00:10:27	No contact	-
SEA-SQL-1	Running	K47N2	0 %	<div style="width: 73%;">73 %</div>	<div style="width: 27%;">373 MB</div>	512 MB	2:14:13:10	No contact	Not protected
SEA-SQL-2	Running	K47N2	0 %	<div style="width: 73%;">73 %</div>	<div style="width: 27%;">373 MB</div>	512 MB	2:14:11:21	No contact	Not protected
SEA-SQL-3	Stopped	K47N2	-	-	-	-	-	-	Not protected
SEA-SQL-4	Running	K47N2	18 %	<div style="width: 146%;">146 %</div>	<div style="width: 54%;">747 MB</div>	512 MB	0:01:41:13	No contact	Not protected
SEA-VM-1	Stopped	K47N2	-	-	-	-	-	-	Not protected
SEA-VM-2	Stopped	K47N2	-	-	-	-	-	-	Not protected
SEA-VM-3	Stopped	K47N2	-	-	-	-	-	-	Not protected
SEA-VM-4	Running	K47N2	0 %	<div style="width: 73%;">73 %</div>	<div style="width: 27%;">373 MB</div>	512 MB	0:00:19:36	No contact	Not protected
SEA-WEB-1	Running	K47N2	0 %	<div style="width: 73%;">73 %</div>	<div style="width: 27%;">373 MB</div>	512 MB	2:14:18:05	No contact	Not protected
SEA-WEB-2	Running	K47N2	0 %	<div style="width: 72%;">72 %</div>	<div style="width: 28%;">368 MB</div>	512 MB	2:14:16:29	No contact	Not protected
SEA-WEB-3	Running	K47N2	0 %	<div style="width: 72%;">72 %</div>	<div style="width: 28%;">368 MB</div>	512 MB	2:14:14:46	No contact	Not protected
SEA-WEB-4	Running	K47N1	20 %	<div style="width: 82%;">82 %</div>	<div style="width: 18%;">564 MB</div>	688 MB	2:02:51:03	No contact	-
SEA-WEB-5	Running	K47N2	0 %	<div style="width: 72%;">72 %</div>	<div style="width: 28%;">368 MB</div>	512 MB	2:00:11:54	No contact	Not protected
SEA-WEB-6	Running	K47N2	0 %	<div style="width: 73%;">73 %</div>	<div style="width: 27%;">373 MB</div>	512 MB	1:23:41:53	No contact	Not protected

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This PC

(C)

SMSTaskSequence

\$Recycle.Bin

Documents and Settings

All Users

asrahman

Default

Default User

harowl

honchen

ningyang

Public

solin

v-dabrox

xianqi

Hyper-V

mvp

PerfLogs

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ProgramData

Recovery

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tt4

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Windows

C:\ Documents and Settings \ harowl

New Folder

Rename

Upload

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Extract

Delete

More

Share

Properties

Name	Date Modified		Size
AppData	9/11/2018, 5:14:57 PM		-
Application Data	9/11/2018, 5:14:57 PM		-
Contacts	9/11/2018, 5:50:38 PM	Folder	-
Cookies	9/11/2018, 5:14:57 PM	Folder	-
Desktop	9/11/2018, 5:50:38 PM	Folder	-
Documents	9/17/2018, 2:25:00 PM	Folder	-
Downloads	9/11/2018, 5:50:38 PM	Folder	-
Favorites	9/11/2018, 5:50:38 PM	Folder	-
Folder to share	9/17/2018, 2:34:25 PM	Folder	-
Links	9/11/2018, 5:50:38 PM	Folder	-
Local Settings	9/11/2018, 5:14:57 PM	Folder	-
Music	9/11/2018, 5:50:38 PM	Folder	-
My Documents	9/11/2018, 5:14:57 PM	Folder	-
NetHood	9/11/2018, 5:14:57 PM	Folder	-
Pictures	9/11/2018, 5:50:38 PM	Folder	-
PrintHood	9/11/2018, 5:14:57 PM	Folder	-
Recent	9/11/2018, 5:14:57 PM	Folder	-
Saved Games	9/11/2018, 5:50:38 PM	Folder	-
Searches	9/11/2018, 5:50:38 PM	Folder	-
SendTo	9/11/2018, 5:14:57 PM	Folder	-
Start Menu	9/11/2018, 5:14:57 PM	Folder	-
Templates	9/11/2018, 5:14:57 PM	Folder	-
Videos	9/11/2018, 5:50:38 PM	Folder	-
NTUSER.DAT	9/12/2018, 2:15:36 PM	File	2,048 KB
ntuser.dat.LOG1	9/11/2018, 5:14:57 PM	File	296 KB
ntuser.dat.LOG2	9/11/2018, 5:14:57 PM	File	320 KB
NTUSER.DAT(9dc466ab-aa6a-11e8-9450-b50866b81d...)	9/11/2018, 5:57:15 PM	File	64 KB
NTUSER.DAT(9dc466ab-aa6a-11e8-9450-b50866b81d...)	9/11/2018, 5:57:15 PM	File	512 KB
NTUSER.DAT(9dc466ab-aa6a-11e8-9450-b50866b81d...)	9/11/2018, 5:57:15 PM	File	512 KB
ntuser.ini	9/11/2018, 5:14:57 PM	File	1 KB

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Files

This PC	
	(C)
>	_SMSTaskSequence
>	\$Recycle.Bin
>	Documents and Settings
>	All Users
>	asrahman
>	Default
>	Default User
>	harowl
>	honchen
>	ningyang
>	Public
>	solin
>	v-dabrox
>	xianqi
>	Hyper-V
>	mvp
>	PerfLogs
>	Program Files
>	Program Files (x86)
>	ProgramData
>	Recovery
>	System Volume Information
>	tt4
>	Users
>	Windows

C:\ \ Documents and Settings \ harowl

Name	Date Modified	Type
AppData	9/11/2018, 5:14:57 PM	Folder
Application Data	9/11/2018, 5:14:57 PM	Folder
Contacts	9/11/2018, 5:50:38 PM	Folder
Cookies	9/11/2018, 5:14:57 PM	Folder
Desktop	9/11/2018, 5:50:38 PM	Folder
Documents	9/17/2018, 2:25:00 PM	Folder
Downloads	9/11/2018, 5:50:38 PM	Folder
Favorites	9/11/2018, 5:50:38 PM	Folder
Folder to share	9/17/2018, 2:34:25 PM	Folder
Links	9/11/2018, 5:50:38 PM	Folder
Local Settings	9/11/2018, 5:14:57 PM	Folder
Music	9/11/2018, 5:50:38 PM	Folder
My Documents	9/11/2018, 5:14:57 PM	Folder
NetHood	9/11/2018, 5:14:57 PM	Folder
Pictures	9/11/2018, 5:50:38 PM	Folder
PrintHood	9/11/2018, 5:14:57 PM	Folder
Recent	9/11/2018, 5:14:57 PM	Folder
Saved Games	9/11/2018, 5:50:38 PM	Folder
Searches	9/11/2018, 5:50:38 PM	Folder
SendTo	9/11/2018, 5:14:57 PM	Folder
Start Menu	9/11/2018, 5:14:57 PM	Folder
Templates	9/11/2018, 5:14:57 PM	Folder
Videos	9/11/2018, 5:50:38 PM	Folder
NTUSER.DAT	9/12/2018, 2:15:36 PM	File
ntuser.dat.LOG1	9/11/2018, 5:14:57 PM	File
ntuser.dat.LOG2	9/11/2018, 5:14:57 PM	File
NTUSER.DAT(9dc466ab-aa6a-11e8-9450-b50866b81d...)	9/11/2018, 5:57:15 PM	File
NTUSER.DAT(9dc466ab-aa6a-11e8-9450-b50866b81d...)	9/11/2018, 5:57:15 PM	File
NTUSER.DAT(9dc466ab-aa6a-11e8-9450-b50866b81d...)	9/11/2018, 5:57:15 PM	File
ntuser.ini	9/11/2018, 5:14:57 PM	File

Share

Folder "Folder to share" is not shared

Group or user name:

 Add

Name	Permission
NT AUTHORITY\SYSTEM	Read/Write
BUILTIN\Administrators	Owner
REDMOND\harowl	Read/Write

Submit

Cancel

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Migrate servers and file shares to Azure or Windows Server 2019 by using Storage Migration Service. [Set up now](#)[Learn more](#)

Disks

Volumes

File shares

1 item

[New Share](#)[Edit Share](#)[Remove Share](#)

Name	Health	Status	File sharing protocol	Encrypted
mvp	Healthy	OK	SMB	No

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Migrate servers and file shares to Azure or Windows Server 2019 by using Storage Migration Service. [Set up now](#)[Disks](#) [Volumes](#) [File shares](#)[+ New Share](#) [Edit Share](#) [Remove Share](#)

Name	Health	Status	File sharing protocol
mvp	Healthy	OK	SMB

Share

Folder location

\Documents and Settings\harowl\Folder to share

[Browse](#)

Share name

Folder to share

Group or user name:

 [Add](#)

Name	Permission
redmond\smexp	Read Read/Write Deny

[Submit](#)[Cancel](#)

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Remote Desktop

Disconnect Send Ctrl+Alt+Del Copy remote clipboard

Untitled - Notepad

File Edit Format View Help

Hello Ignite audience! Do you love Windows Admin Center? Yes or yes?

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Tools



PowerShell

X Disconnect

```
OsDebug : False
OsDistributed : False

Get-ComputerInfo
    Loading processor information

OsTotalVirtualMemorySize : 3555480
OsFreeVirtualMemory : 898948
OsInUseVirtualMemory : 2656532
OsTotalSwapSpaceSize :
OsSizeStoredInPagingFiles :
OsFreeSpaceInPagingFiles : 619100
OsPagingFiles : {C:\pagefile.sys}
OsHardwareAbstractionLayer : 10.0.14393.2068
OsInstallDate : 8/27/2018 6:39:46 PM
OsManufacturer : Microsoft Corporation
OsMaxNumberOfProcesses : 4294967295
OsMaxProcessMemorySize : 137438953344
OsMuiLanguages : {en-US}
OsNumberOfLicensedUsers : 0
OsNumberOfProcesses : 97
OsNumberOfUsers : 12
OsOrganization :
OsArchitecture : 64-bit
OsLanguage : en-US
OsProductSuites : {TerminalServices, DatacenterEdition, TerminalServicesSingleSession}
OsOtherTypeDescription :
OsPAEEnabled :
OsPortableOperatingSystem :
OsPrimary :
OsProductType :
OsRegisteredUser :
OsSerialNumber : 00376-40000-00000-AA947
OsServicePackMajorVersion : 0
OsServicePackMinorVersion : 0
OsStatus : OK
OsSuites : {TerminalServices, DatacenterEdition, TerminalServicesSingleSession}
OsServerLevel : FullServer
KeyboardLayout :
TimeZone : (UTC-08:00) Pacific Time (US & Canada)
LogonServer : \\CO1-RED-DC-01
PowerPlatformRole : Desktop
HyperVisorPresent : True
HyperVRequirementDataExecutionPreventionAvailable :
HyperVRequirementSecondLevelAddressTranslation :
HyperVRequirementVirtualizationFirmwareEnabled :
HyperVRequirementVMMonitorModeExtensions :
DeviceGuardSmartStatus : Off
DeviceGuardRequiredSecurityProperties : {BaseVirtualizationSupport, SecureBoot}
DeviceGuardAvailableSecurityProperties : {BaseVirtualizationSupport, 5}
DeviceGuardSecurityServicesConfigured : {CredentialGuard}
DeviceGuardSecurityServicesRunning : {0}
DeviceGuardCodeIntegrityPolicyEnforcementStatus :
DeviceGuardUserModeCodeIntegrityPolicyEnforcementStatus :
```

[sme-server8.redmond.corp.microsoft.com]: PS C:\Users\harowl\Documents> Get-ComputerInfo

Manage new Windows Server platform features **exclusively** with Windows Admin Center

 Storage Migration Service

 Storage Replica

 System Insights

Jobs - Storage Migratio + https://localhost:6516/servermanager/connections/server/sms2019-01.corp.contoso.com/tools/storage-migration/jobs Microsoft

Windows Admin Center Server Manager > 🔍 ⚙️ ?

sms2019-01.corp.contoso.com

Tools < Storage Migration Service NEW ⓘ

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Storage Migration Service

Overview

Inventory

Running	Paused	Completed
0	0	3
TOTAL INVENTORIED SIZE	TOTAL INVENTORIED FILES	
12.6 GB	8.18 K	

Transfer

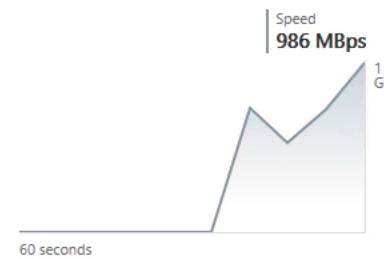
Running	Paused	Completed
1	0	0
TOTAL PROCESSED SIZE	TOTAL PROCESSED FILES	
9.85 GB	1.54 K	

Cutover

Running	Paused	Completed
0	0	0

Running jobs

Orlando Transfer fs01.corp.contoso.com 99% Speed 986 MBps 1 Gbps 60 seconds



+ New job — Remove selected

Name	Status	Phase	Last run	Created on	Created by
Chicago	Succeeded	Inventory	9/14/2018, 5:05:46 PM	9/14/2018, 5:05:40 PM	CORP\admin
NYC	Succeeded	Inventory	9/14/2018, 5:06:43 PM	9/14/2018, 5:06:41 PM	CORP\admin

3 items

Type here to search

Inventory - Inventory - . + 🔍 https://localhost:6516/servermanager/connections/server/sms2019-01.corp.contoso.com/tools/storage-migration/demo/inventory/source-devices

Windows Admin Center Server Manager Microsoft Feedback ⓘ

sms2019-01.corp.contoso.com

Tools < Storage Migration Service > demo

Search Tools Events

Inventory devices Transfer data Cut over to the new servers

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Enter credentials Add and scan devices

Add and scan devices

Start scan + Add a device — Remove device 2 items Search

Name ↑	Config scan	SMB scan	Size	Files	Failed files	Failed folders	Start time	End time	State
fs01.corp.contoso.com	Succeeded	Succeeded	1.67 GB	308	0	0	9/14/2018, 4:32:29 PM	9/14/2018, 4:32:31 PM	<input checked="" type="checkbox"/> Succeeded
fs02.corp.contoso.com	Succeeded	Succeeded	1.37 GB	3,323	0	0	9/14/2018, 4:32:31 PM	9/14/2018, 4:32:38 PM	<input checked="" type="checkbox"/> Succeeded

Phase details: fs01.corp.contoso.com

Shares Configuration Network adapters Volumes 5 items Search

Name ↑	Path	Type	Size	Files	Failed files	Succeeded folders	Failed folders	State
335	D:\public\335	SMB	111 MB	27	0	1	0	<input checked="" type="checkbox"/> Succeeded
IT	E:\IT	SMB	1.08 MB	1	0	1	0	<input checked="" type="checkbox"/> Succeeded
old	C:\old	SMB	928 MB	188	0	2	0	<input checked="" type="checkbox"/> Succeeded
public	D:\public	SMB	206 MB	40	0	2	0	<input checked="" type="checkbox"/> Succeeded
Sales	D:\Sales	SMB	578 MB	79	0	2	0	<input checked="" type="checkbox"/> Succeeded

Save and exit Back Next

Type here to search

Manage new Windows Server platform features **exclusively** with Windows Admin Center

 Storage Migration Service

 Storage Replica

 System Insights

Partnerships - Storage F X +

https://localhost:6516/servermanager/connections/server/tk5-3wp16r1414. /tools/storagereplica/partnerships

Windows Admin Center Server Manager > ?

tk5-3wp16r1414

Tools <

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TK5-3WP16R1414 -> TK5-3WP16R1415. Initial block copy of disk H:\ 24.9 GB / 137 GB (18%) complete

Storage Replica PREVIEW ⚡

Partnerships Event Viewer

+ New — Remove II Suspend ▶ Resume ⇕ Switch direction ⚙ Settings

2 items ⚡ Search

Status	Source node	Source group name	Source data volumes	Replication mode	Destination node	Destination group name	Destination data volumes
✓	TK5-3WP16R1414	SQLInstance1	E:\ F:\	Synchronous	TK5-3WP16R1415	SQLR.Instance1	E:\ F:\
⚠	TK5-3WP16R1414	VirtualMachines	H:\	Syncing	TK5-3WP16R1415	VirtualMachines.Partner	H:\

Partnership details

Replication group Replicated volume

Source: TK5-3WP16R1414

Name:	Computer name:
VirtualMachines	TK5-3WP16R1414
Log volume:	Log size:
I:\	8 GB
Write Consistency:	RPO (seconds):
Disabled	60
Encrypted:	Number of replicas:
Disabled	1
Replication mode:	Replication status:
Asynchronous	Initial block copy

Destination: TK5-3WP16R1415

Name:	Computer name:
VirtualMachines.Partner	TK5-3WP16R1415
Log volume:	Log size:
I:\	8 GB
Write Consistency:	RPO (seconds):
Disabled	60
Encrypted:	Number of replicas:
Disabled	1
Replication mode:	Replication status:
Asynchronous	Initial block copy

Manage new Windows Server platform features **exclusively** with Windows Admin Center

 Storage Migration Service

 Storage Replica

 System Insights

system-insights-log-analytic Capabilities - System In +

https://localhost:6516/servermanager/connections/server/gw-vm01.redmond.corp.microsoft.com/tools/system-insights/capabilities

Windows Admin Center Server Manager > ?

Microsoft

gw-vm01.redmond.corp.microsoft.com

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System Insights

PREVIEW ⓘ

Capability name ↑	State	Status	Status description	Last run
CPU capacity forecasting	Enabled	✓ Ok	CPU usage is forecasted to remain within the available capacity.	9/7/2018 11:15:03 AM
Networking capacity forecasting	Enabled	✓ Ok	Network usage is forecasted to remain within the available capacity.	9/7/2018 11:33:53 AM
Total storage consumption forecasting	Enabled	✓ Ok	Disk usage is forecasted to remain within the available capacity.	9/7/2018 3:00:01 AM
Volume consumption forecasting	Enabled	⚠ Warning	(E) is forecasted to exceed available capacity in the next 30 days.	9/7/2018 11:03:04 AM

4 items ⌂ Search ⌂

Windows Taskbar: e-mail icon, Cloud icon, Start button

gw-vm01.redmond.corp.microsoft.com

Tools

Search Tools



System Insights > Volume consumption forecasting overview

Invoke Settings Disable

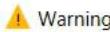
Overview

Status

Forecast

Last run

Schedule



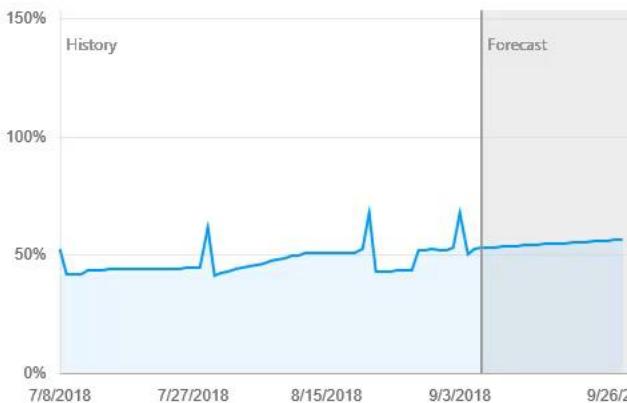
(E) is forecasted to exceed available capacity in the next 30 days.

9/7/2018 11:03:04 AM

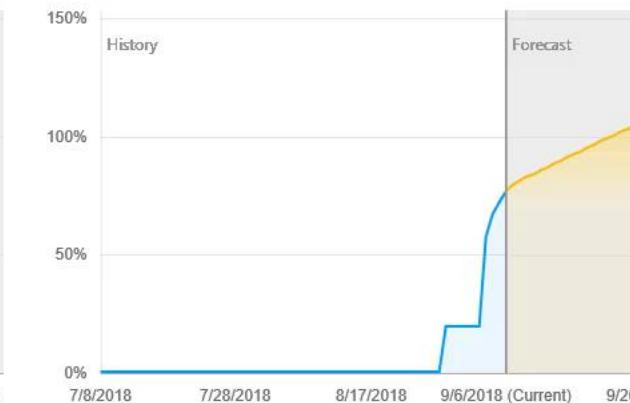
Everyday

Forecast

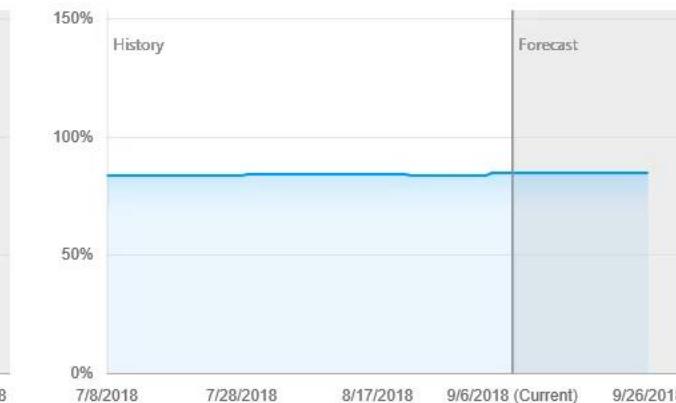
DC_x64FRE_EN-US_VHD (C:)



(E)



03e21bf1-0000-0000-0000-60e309000000



Volume usage is forecasted to exceed the available capacity in 16 days

History

Status

Status description

Last run ↑



(E) is forecasted to exceed available capacity in the next 30 days.

9/7/2018 11:03:04 AM



(E) is forecasted to exceed available capacity in the next 30 days.

9/7/2018 8:47:07 AM

Volume usage is forecasted to remain within the available capacity.

9/7/2018 3:00:01 AM

Troubleshooting, configuration, and maintenance

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Hyper-converged clusters

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- SDN Monitoring
- Settings

sme-demo1

Tools

**Containers** PREVIEW ⓘ[Summary](#) [Containers](#) [Images](#) [Networks](#) [Volumes](#)

Total

1 Containers

Running

0

Stopped

1

Total

5 Images

Latest

3

Total Size

5.54GB

Total

4 Networks

Local

4

Others

0

Total

0 Volumes

Local

0

others

0

This node belongs to a Kubernetes cluster.

[Kubernetes Management](#) ↗**Remove link**

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Containers PREVIEW [Summary](#) [Containers](#) [Images](#) [Networks](#) [Volumes](#)

Total

1 Containers

Running

0

Stopped

1

Total

4 Networks

Local

4

Others

0

This node belongs to a Kubernetes cluster.

[Kubernetes Management](#) [Remove link](#)

Total

5 Images

Latest

3

Total Size

5.54GB

Total

0 Volumes

Local

0

Others

0

Containers PREVIEW ⓘ

Summary Containers Images Networks Volumes

X End Delete

3 items

Name	Image	Status	Port configuration	CMD	ID	Created	CPU percentage	Memory usage	Size
myHypervContainer	microsoft/nanoserver	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoserver	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.41MiB	0B
myWAC	wac:latest	Up 9 days	0.0.0.6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e026...	2018-08-23 17:26:18 -07...	0.00%	157.9MiB	0B

Containers PREVIEW

Summary Containers Images Networks Volumes

X End Delete

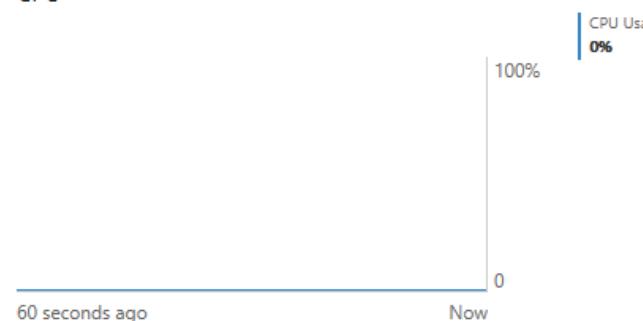
3 items

Name	Image	Status	Port configuration	CMD	ID	Created	CPU percentage	Memory usage	Size
myHypervContainer	microsoft/nanoserver	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoserver	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.44MiB	0B
myWAC	wac:latest	Up 9 days	0.0.0.6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e026...	2018-08-23 17:26:18 -07...	0.00%	157.8MiB	0B

Details - myWAC

Stats Details Logs Console Events

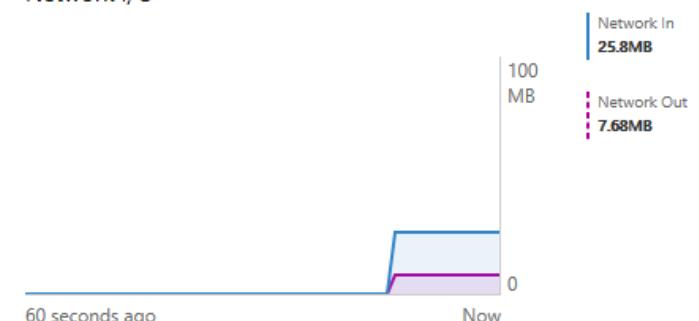
CPU



Memory



Network I/O



Containers

PREVIEW ⓘ

Summary Containers Images Networks Volumes

X End 🗑 Delete

3 items

Name	Image	Status	Port configuration	CMD	ID	Created	CPU percentage	Memory usage	Size
myHypervContainer	microsoft/nanoserver	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoserver	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.38MiB	0B
myWAC	wac:latest	Up 9 days	0.0.0:6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e0265db1af55a17bc29535	2018-08-23 17:26:18 -07...	0.00%	157.7MiB	0B

Details - myWAC

Stats Details Logs Console Events

Name	Created	Status	Image	CMD
myWAC	2018-08-23 17:26:18 -0700 PDT	Up 9 days	wac:latest	[powershell -command c:/sme/Start.ps1 -mount Point c:\myVol -useExternalStorage -certPath c:\myVol\containerCert.pfx -certPwPath c:\myVol\password.txt -certPwKeyPath c:\myVol\pwKey.key]
Port configuration	ID	Image ID	Process ID	Driver
0.0.0:6516->443/tcp	ff1ff55c32cc9c61ab9e0265db1af55a17bc29535 de58864b4bb5d547808c538	sha256:f861913d5ebcd5cb43030af1f83f49c76d 4cdf368199f16909cd2d6b5d9e7fed	5980	windowsfilter
Networks connected	Volumes mounted	Isolation		
nat(172.23.213.131)	myvol(volume)	process		

Containers

PREVIEW

Summary Containers Images Networks Volumes

X End Delete

3 items

Name	Image	Status	Port configuration	CMD	ID	Created	CPU percentage	Memory usage	Size
myHypervContainer	microsoft/nanoserver	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoserver	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.33MiB	0B
myWAC	wac:latest	Up 9 days	0.0.0:6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e026...	2018-08-23 17:26:18 -07...	0.00%	157.7MiB	0B

Details - myWAC

Stats Details Logs Console Events

Logs of myWAC

2018-08-24T00:26:30.048118600Z [2J[H[37;40mCopying Ux files to: c:\myVol\Server Management Experience\Ux

2018-08-24T00:27:38.734710300Z Setting up external storage: c:\myVol\Server Management Experience

2018-08-24T00:27:42.652446000Z Installing certificate: c:\myVol\containerCert.pfx

2018-08-24T00:27:44.631379100Z

2018-08-24T00:27:44.631379100Z SSL Certificate successfully deleted

2018-08-24T00:27:44.631379100Z

2018-08-24T00:27:44.821371100Z

2018-08-24T00:27:44.822373000Z SSL Certificate successfully added

2018-08-24T00:27:44.822373000Z

2018-08-24T00:27:44.899364800Z Starting Windows Admin Center

2018-08-24T00:27:47.839298900Z Windows Admin Center is running

Containers PREVIEW [Summary](#) [Containers](#) [Images](#) [Networks](#) [Volumes](#)[X](#) [End](#) [Delete](#)

3 items

Name	Image	Status	Port configuration	CMD	ID	Created	CPU percentage	Memory usage	Size
myHypervContainer	microsoft/nanoserver	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoserver	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.29MiB	0B
myWAC	wac:latest	Up 9 days	0.0.0.6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e026...	2018-08-23 17:26:18 -07...	0.00%	158MiB	0B

Details - myWAC[Stats](#) [Details](#) [Logs](#) [Console](#) [Events](#)

Connecting to myWAC...

[sme-demo1]: [ff1ff55c32cc...]: PS C:\Users\ContainerAdministrator\Documents>

Containers PREVIEW

Summary Containers Images Networks Volumes

X End Delete

3 items

Name	Image	Status	Port configuration	CMD	ID	Created	CPU percentage	Memory usage	Size
myHypervContainer	microsoft/nanoserver	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoserver	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.46MiB	0B
myWAC	wac:latest	Up 9 days	0.0.0.6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e026...	2018-08-23 17:26:18 -07...	0.00%	186.1MiB	0B

Details - myWACStats Details Logs Console **Events**

Clear Export

3231 items



Search



Administrative Logs

Windows Logs

Application

Security

System

ForwardedEvents

Setup

Applications and Services Logs

HardwareEvents

Internet Explorer

Key Management Service

Microsoft

Level

Date and Time

Source

Event ID

Information

9/14/2018 2:41:38 PM

Microsoft Windows security auditing.

4689

Information

9/14/2018 2:41:38 PM

Microsoft Windows security auditing.

4634

Information

9/14/2018 2:41:38 PM

Microsoft Windows security auditing.

4689

Information

9/14/2018 2:41:37 PM

Microsoft Windows security auditing.

4688

Information

9/14/2018 2:41:37 PM

Microsoft Windows security auditing.

4672

Event 4689, Microsoft Windows security auditing.Description Details

A process has exited.

X End Delete

3 items

Name	Image	Status	Port configuration	CMD	ID	Created	CPU percentage	Memory usage	Size
myHypervContainer	microsoft/nanoserver	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoservert	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.46MiB	0B
myWAC	wac:latest	Up 9 days	0.0.0.6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e026...	2018-08-23 17:26:18 -07...	0.00%	186.1MiB	0B

Details - myWAC

Stats Details Logs Console Events

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Internet Explorer

Key Management Service

Microsoft

> Client

> OneCore

> Pef

Windows

> ActionQueue

> ADSI

Clear Export

3231 items



Search



Level	Date and Time	Source	Event ID
Information	9/14/2018 2:41:38 PM	Microsoft Windows security auditing.	4689
Information	9/14/2018 2:41:38 PM	Microsoft Windows security auditing.	4634
Information	9/14/2018 2:41:38 PM	Microsoft Windows security auditing.	4689
Information	9/14/2018 2:41:37 PM	Microsoft Windows security auditing.	4688
Information	9/14/2018 2:41:37 PM	Microsoft Windows security auditing.	4672

Event 4689, Microsoft Windows security auditing.

Description Details

A process has exited.

Subject:

Security ID: S-1-5-93-2-1
Account Name: ContainerAdministrator
Account Domain: User Manager
Logon ID: 0x2A3BCF57

Process Information:

Process ID: 0xc64
Process Name:\Device\HarddiskVolume8\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
Exit Status: 0x42B

sme-demo1

Tools

Containers PREVIEW ⓘ

Summary Containers Images Networks Volumes

X End Delete

Name	Image	Status	Port configuration	CMD	ID	Created	CPU percentage	Memory usage	Size
myHypervContainer	microsoft/nanoserver	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoservert	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.46MiB	0B
myWAC	wac:latest	Up 9 days	0.0.0.6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e026...	2018-08-23 17:26:18 -07...	0.00%	186.1MiB	0B

Details - myWAC

Stats Details Logs Console Events

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Applications and Services Logs

HardwareEvents

Internet Explorer

Key Management Service

Microsoft

> Client

> OneCore

> Pef

> Windows

> ActionQueue

> ADSI

Clear Export

3231 items

Search

Date and Time ↓

Source

Event ID

Level	Date and Time ↓	Source	Event ID
Information	9/14/2018 2:41:38 PM	Microsoft Windows security auditing.	4689
Information	9/14/2018 2:41:38 PM	Microsoft Windows security auditing.	4634
Information	9/14/2018 2:41:38 PM	Microsoft Windows security auditing.	4689
Information	9/14/2018 2:41:37 PM	Microsoft Windows security auditing.	4688
Information	9/14/2018 2:41:37 PM	Microsoft Windows security auditing.	4672

Event 4689, Microsoft Windows security auditing.

Description Details

A process has exited.

Subject:

Security ID:	S-1-5-93-2-1
Account Name:	ContainerAdministrator
Account Domain:	User Manager
Logon ID:	0x2A3BCF57

Process Information:

Process ID:	0xc64
Process Name:	\Device\HarddiskVolume8\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
Exit Status:	0x428

sme-demo1

Tools



Containers PREVIEW

Summary Containers Images Networks Volumes



5 items

Repository	Tag	Image ID	Created At	Size
wac	latest	sha256:f861913d5ebcd5cb43030af1f83f49c76d4cdf368...	2018-08-22 14:07:36 -0700 PDT	11.2GB
msftsme.azurecr.io/wac	latest	sha256:f861913d5ebcd5cb43030af1f83f49c76d4cdf368...	2018-08-22 14:07:36 -0700 PDT	11.2GB
hello-world	latest	sha256:b98162eca839f0f7edc6ce3f2afdf7a935b8f9a1d6f...	2018-07-11 03:00:28 -0700 PDT	1.14GB
microsoft/nanoserver	latest	sha256:e2c314f76df6e50e16eadf281b70ead66470edd9...	2018-07-10 14:34:10 -0700 PDT	1.13GB
microsoft/windowsservercore	latest	sha256:9dbf7f740334478cf5b2692a0d40a1bb28e180b9...	2018-06-12 17:56:12 -0700 PDT	10.7GB

Details



Containers

PREVIEW ⓘ

[Summary](#) [Containers](#) [Images](#) [Networks](#) [Volumes](#)

Delete

Repository	Tag	Image ID	Created At	Size
wac	latest	sha256:f861913d5ebcd5cb43030af1f83f49c76d4cdf368...	2018-08-22 14:07:36 -0700 PDT	11.2GB
msftsme.azurecr.io/wac	latest	sha256:f861913d5ebcd5cb43030af1f83f49c76d4cdf368...	2018-08-22 14:07:36 -0700 PDT	11.2GB
hello-world	latest	sha256:b98162eca839f0f7edc6ce3f2af7a935b8f9a1d6f...	2018-07-11 03:00:28 -0700 PDT	1.14GB
microsoft/nanoserver	latest	sha256:e2c314f76df6e50e16eadf281b70ead66470edd9...	2018-07-10 14:34:10 -0700 PDT	1.13GB
microsoft/windowsservercore	latest	sha256:9dbf7f740334478cf5b2692a0d40a1bb28e180b9...	2018-06-12 17:56:12 -0700 PDT	10.7GB



Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



Secure, cloud-ready, extensible

Platform



Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



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Platform

sme-cluster4.redmond.corp.microsoft.com

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NETWORKING

[Virtual Networks](#)[SDN Monitoring](#)

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Dashboard

Health

Alerts (Total 4)

 CLUSTER SME-CLUSTER4 3 days ago
Windows Server is consuming more than 50.000000 % of physical memory, which exceeds your configured threshold.

[View all](#)

Servers (Total 5)

All servers healthy

Drives (Total 10)

All drives healthy

Virtual machines (Total 7)

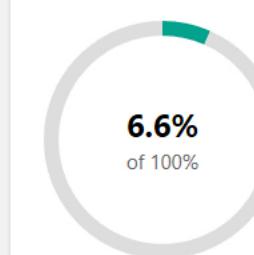
Running 2 Off 5

Volumes (Total 2)

All volumes healthy

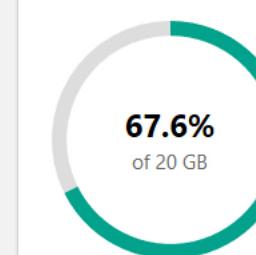
Resource consumption

CPU usage



Total 6.6%

Memory usage



Total 67.6%

Storage usage



Performance

 Settings

sme-cluster4.redmond.corp.microsoft.com

Tools

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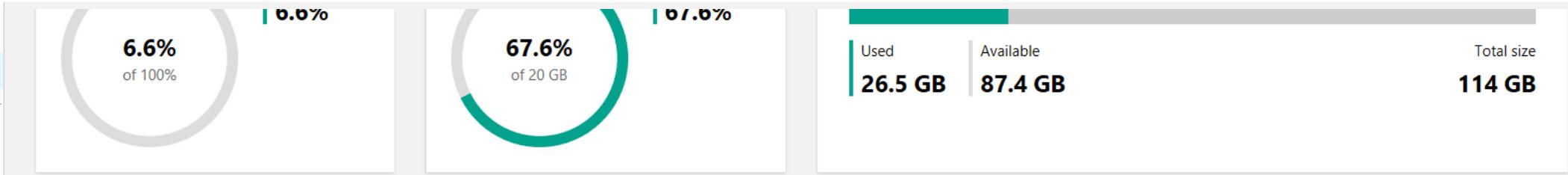
NETWORKING

Virtual Networks

SDN Monitoring

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Updates



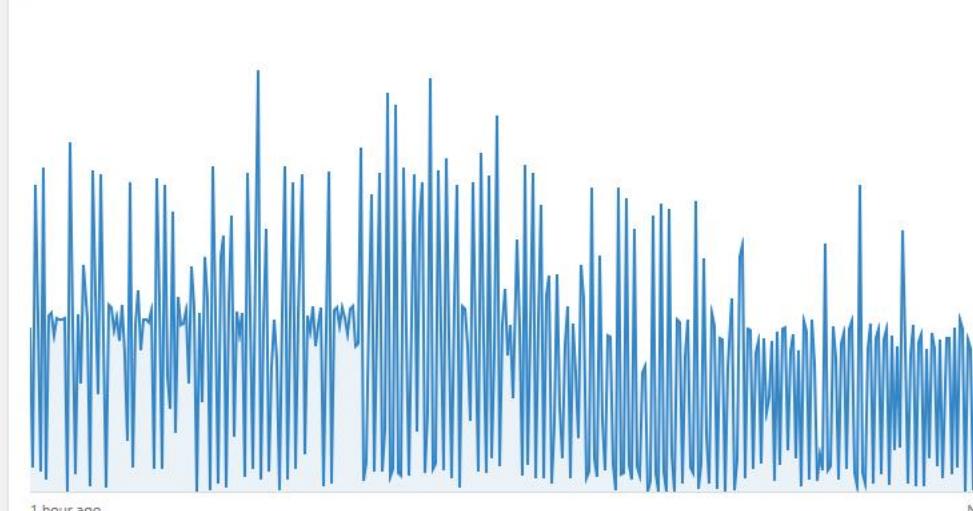
Performance

Cluster performance

Hour Day Week Month Year

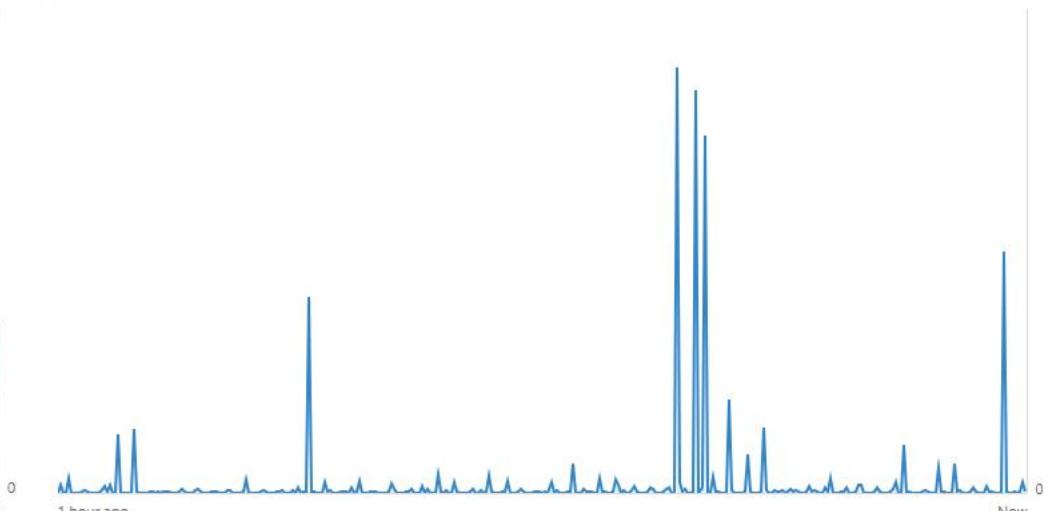
IOPS

343



Latency

7.1 µs





Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



Secure, cloud-ready, extensible

Platform



Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



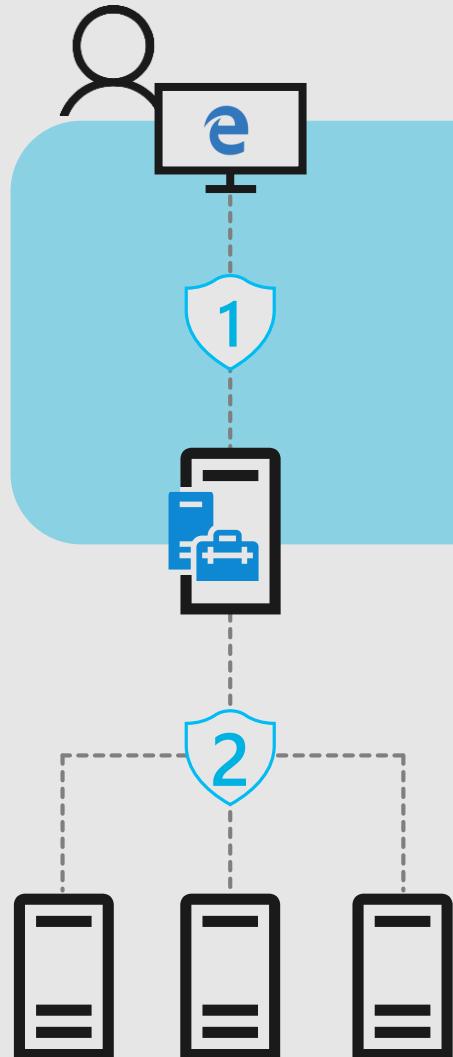
Partner Ecosystem



Secure, cloud-ready, extensible

Platform

Protection at two layers



Secure access to Windows Admin Center

- HTTPS communication
- Active Directory & local groups
- Multi-factor authentication & conditional access
with Azure Active Directory

Windows Admin Center > Settings

— USER —

Account

Language / Region

Suggestions

Advanced

— GATEWAY —

Extensions

Azure

Access

Gateway access

Azure Active Directory

Use Azure Active Directory to add a layer of security to the gateway

 No

Multi-factor authentication

Not enabled. Multi-factor authentication requires a group that provides smartcard authentication.

Allowed groups

Add Delete

Name	Role	Type
BUILTIN\Administrators	Gateway administrators	Secur

Add an allowed group

Name

redmond\smexp

Role

 Gateway users Gateway administrators

Type

 Gateway users security group Smart card security group

Save

Cancel

Add an allowed group

Name

Role

 Gateway users Gateway administrators

Type

 Gateway users security group Smart card security group

es smartcard authentication.

Role	Type
Gateway administrators	Secur

Settings - Windows Adr +

https://smeadgw.redmond.corp.microsoft.com/settings/access

Windows Admin Center Settings Microsoft

Windows Admin Center > Settings

USER

Gateway access

Azure Active Directory

Use Azure Active Directory to add a layer of security to the gateway ⓘ

No

Suggestions

Multi-factor authentication

Not enabled. Multi-factor authentication requires a group that provides smartcard authentication.

GATEWAY

Extensions

Access

Allowed groups

+ Add ⌂ Delete

Name	Role	Type
BUILTIN\Administrators	Gateway administrators	SecurityGroup

1 item Search

https://smeadgw.redmond.corp.microsoft.com/settings/access

Settings - Windows Adr Waiting for response from .. +

https://smeaadgw.redmond.corp.microsoft.com/settings/access

Windows Admin Center Settings Microsoft

Windows Admin Center > Settings

USER

- Account
- Azure Active Directory
- Language / Region
- Suggestions
- Advanced

GATEWAY

- Extensions
- Azure
- Access

Gateway access

Azure Active Directory

Use Azure Active Directory to add a layer of security to the gateway ⓘ

Yes

To control access:

1. [Go to your SME Azure AD app in the Azure portal.](#)
2. On the Properties tab, set User assignment required to Yes.
3. On the Users and groups tab, select Add user, and then assign a role to each user or group you add.

https://portal.azure.com/05ebe8d6-e775-4215-8633-9da01d168a29%23blade/Microsoft_AAD_IAM/ManagedAppMenuBlade/Overview/appId/6b20a9ff-6497-45f1-b2e3-d28dc9f01t

Settings - Windows Admin | Select Role - Microsoft | +

https://portal.azure.com/#blade/Microsoft_AAD_IAM/ManagedAppMenuBlade/Users/appId/6b20a9ff-6497-45f1-b2e3-d28dc9f01bac/objectId/f32b653e-6669-42f7-8565-746be74cdc8e

Microsoft Azure

Search resources, services, and docs

Home > WindowsAdminCenter-https://smeaadgw.redmond.corp.microsoft.com - Users and groups > Add Assignment > Select Role

Create a resource

All services

Favorites

Dashboard

All resources

Resource groups

App Services

Function Apps

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + Billing

Help + support

Add Assignment

woolslayer

Groups are not available for assignment due to your Active Directory plan level.

Users
1 user selected.

Select Role
None Selected

Select Role

Role assigned

Enter role name to filter items...

Gateway Administrator

Gateway User

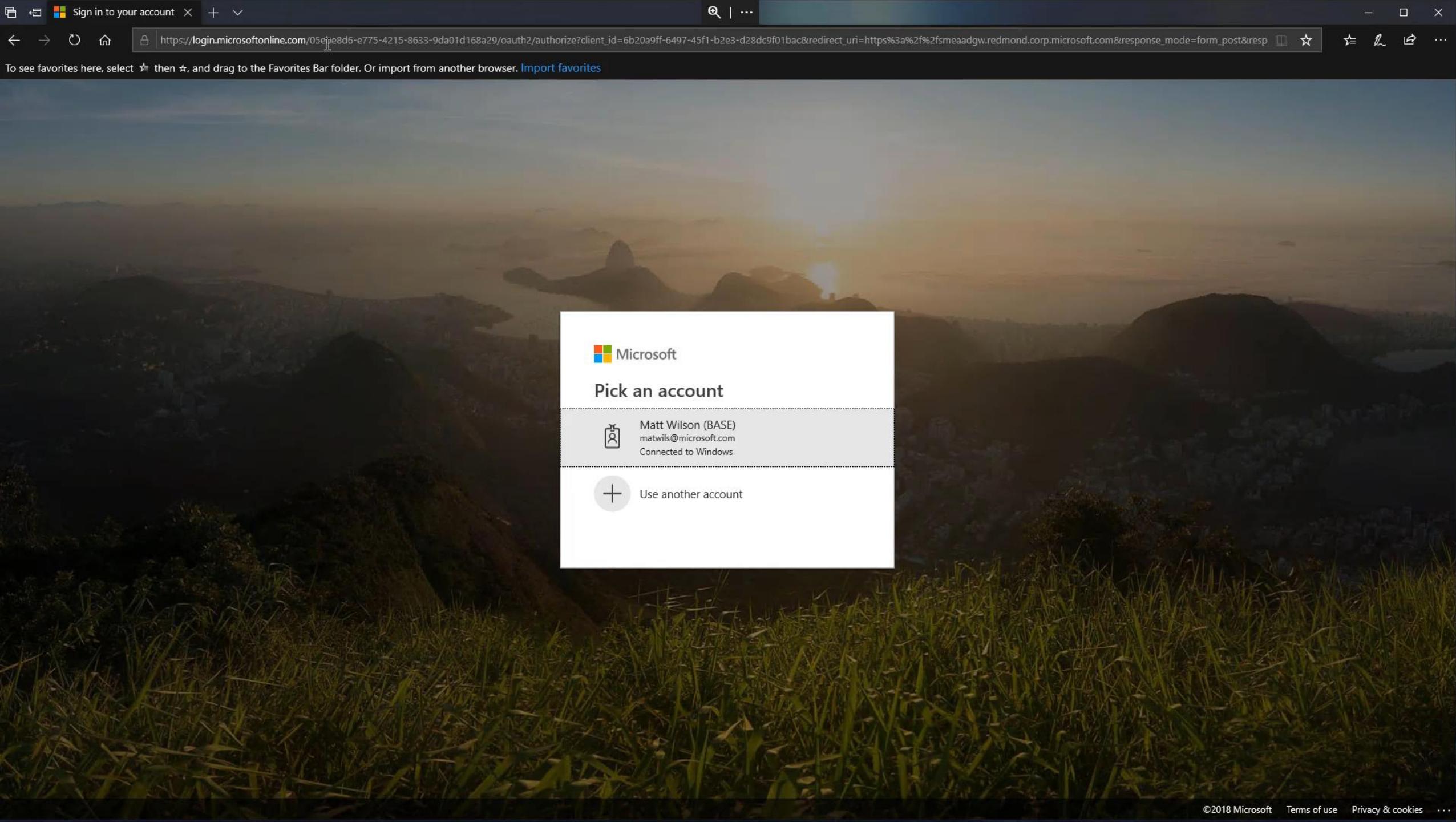
Selected Role
You haven't selected any role.

Assign

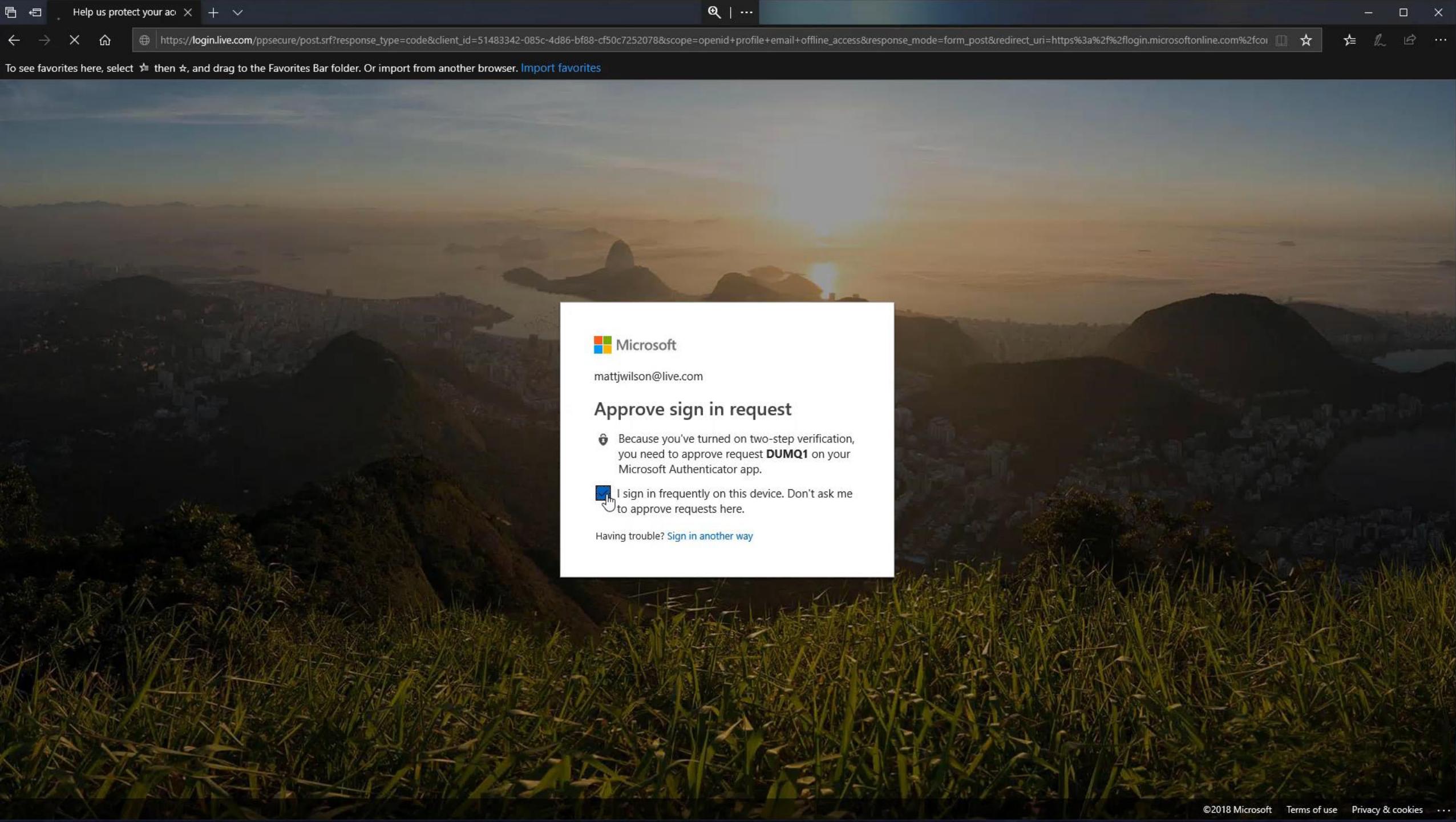
Select

harowl@microsoft.com WOOLSLAYER





To see favorites here, select then , and drag to the Favorites Bar folder. Or import from another browser. [Import favorites](#)



Help us protect your account

To see favorites here, select then , and drag to the Favorites Bar folder. Or import from another browser. [Import favorites](#)

https://login.live.com/ppsecure/post.srf?response_type=code&client_id=51483342-085c-4d86-bf88-cf50c7252078&scope=openid+profile+email+offline_access&response_mode=form_post&redirect_uri=https%3a%2f%2flogin.microsoftonline.com%2fcor

Microsoft

mattjwilson@live.com

Approve sign in request

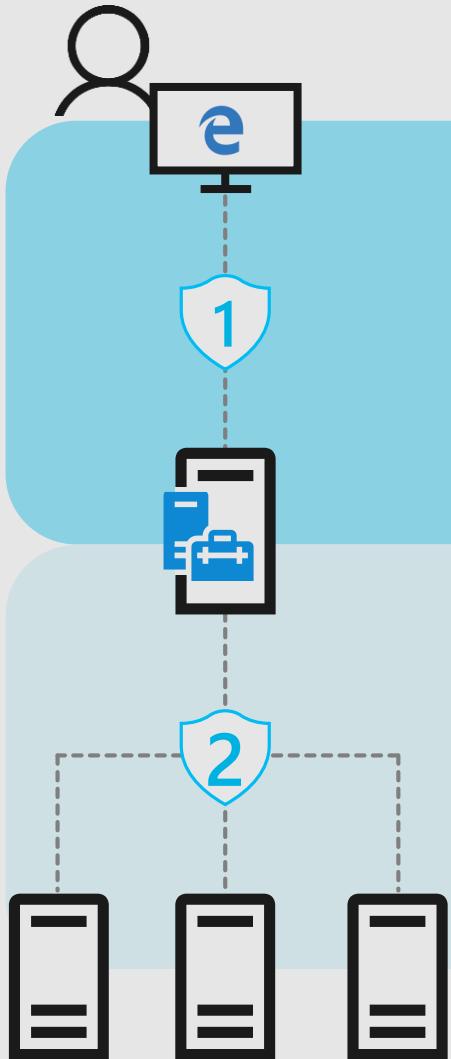
Because you've turned on two-step verification, you need to approve request **DUMQ1** on your Microsoft Authenticator app.

I sign in frequently on this device. Don't ask me to approve requests here.

Having trouble? [Sign in another way](#)

© 2018 Microsoft [Terms of use](#) [Privacy & cookies](#) ...

Protection at two layers



Secure access to Windows Admin Center

- HTTPS communication
- Active Directory & local groups
- Multi-factor authentication & conditional access with Azure Active Directory

Secure access to managed servers

- Role-based access control (RBAC)
- Delegation for single sign-on
- Local administrator password solution (LAPS)

sme-server8.redmond.corp.microsoft.com

Tools



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Role-based Access Control

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NUMA Spanning

Live Migration

Storage Migration

Role-based access control

Role-based access control: **Not applied**

You can help increase security by using role-based access control (RBAC) to grant users just enough administration ability in Windows Admin Center, without making them administrators on the computer. You can assign users to one of the following roles:

Windows Admin Center Administrators

Allows users to view and manage most tools.

Windows Admin Center Hyper-V-Administrators

Allows users to manage Hyper-V virtual machines and switches. Other tools are available in read-only mode.

Windows Admin Center Readers

Allows users to view most tools, but doesn't allow them to make any changes.

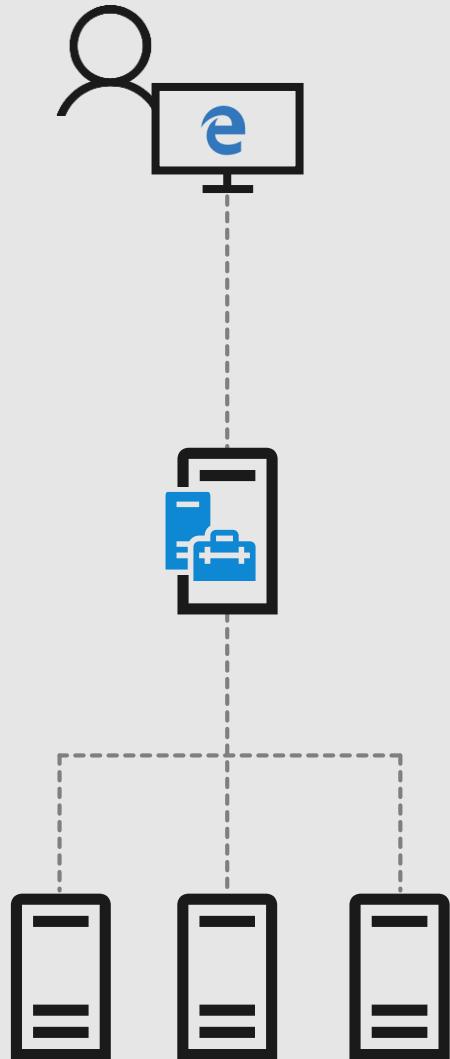
To assign users to roles, first select 'Apply' to enable the feature and create the appropriate groups (this can take up to 10 minutes – check here for updates). Then add the users to the corresponding group in [Local Users and Groups](#).

To deploy role-based access control on multiple computers or use an Active Directory security group to control group membership, consult the [Windows Admin Center documentation](#).

Apply

Remove

Increased visibility of actions for auditing



Windows Admin Center logs

Who: which user took the action,
from which Windows Admin Center gateway

What: name of PowerShell script run,
from which tool

When: time of action

Where: event logged on the target server

How: security features used (delegation, LAPS)

jw-delta5.ntdev.corp.microsoft.com

Tools

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HardwareEvents
Intel
Internet Explorer
Key Management Service
Microsoft
Microsoft-ServerManagementExperience
MicrosoftAzureRecoveryServices-Replica...
NIS
OpenSSH
Operations Manager
Windows PowerShell

Clear Export

Level	Date and Time ↓	Source	Event ID
Information	9/18/2018, 4:56:03 PM	SMEGateway	4000
Information	9/18/2018, 4:54:09 PM	SMEGateway	4000
Information	9/18/2018, 4:53:27 PM	SMEGateway	4000
Information	9/18/2018, 4:53:27 PM	SMEGateway	4000
Information	9/18/2018, 4:52:32 PM	SMEGateway	4000
Information	9/18/2018, 4:52:08 PM	SMEGateway	4000
Information	9/18/2018, 4:51:35 PM	SMEGateway	4000
Information	9/18/2018, 4:51:35 PM	SMEGateway	4000
Information	9/18/2018, 4:49:55 PM	SMEGateway	4000
Information	9/18/2018, 4:49:55 PM	SMEGateway	4000
Information	9/18/2018, 4:49:26 PM	SMEGateway	4000
Information	9/18/2018, 4:49:26 PM	SMEGateway	4000
Information	9/18/2018, 4:48:54 PM	SMEGateway	4000
Information	9/18/2018, 3:59:37 PM	SMEGateway	4000
Information	9/18/2018, 2:06:03 PM	SMEGateway	4000
Information	9/18/2018, 2:05:46 PM	SMEGateway	4000
Information	9/18/2018, 2:05:24 PM	SMEGateway	4000
Information	9/18/2018, 2:05:06 PM	SMEGateway	4000
Information	9/18/2018, 2:04:56 PM	SMEGateway	4000
	...		
	9/18/2018, 1:52:16 PM	SMEGateway	4000

Event 4000, SMEGateway

Description Details

```
{"powerShell":"Start-VirtualMachine","module":"msft.sme.shell","userOnGateway":"REDMOND\\erind","gateway":"IFRADEMO1B"}
```

Information	9/18/2018, 4:49:55 PM	SMEGateway	4000
Information	9/18/2018, 4:49:26 PM	SMEGateway	4000
Information	9/18/2018, 4:49:26 PM	SMEGateway	4000
Information	9/18/2018, 4:48:54 PM	SMEGateway	4000
Information	9/18/2018, 3:59:37 PM	SMEGateway	4000
Information	9/18/2018, 2:06:03 PM	SMEGateway	4000
Information	9/18/2018, 2:05:46 PM	SMEGateway	4000
Information	9/18/2018, 2:05:24 PM	SMEGateway	4000
Information	9/18/2018, 2:05:06 PM	SMEGateway	4000
Information	9/18/2018, 2:04:56 PM	SMEGateway	4000
Information	9/18/2018, 2:04:56 PM	SMEGateway	4000

Event 4000, SMEGateway

Description Details

```
{"powerShell":"Start-VirtualMachine","module":"msft.sme.shell","userOnGateway":"REDMOND\\erind","gateway":"IFRADEMO1B"}
```

What

Who

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Key Management Service

> Microsoft

Microsoft-ServerManagementExperience

MicrosoftAzureRecoveryServices-Replica...

> NIS

> OpenSSH

Operations Manager

Windows PowerShell

Clear Export

Level

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Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



Secure, cloud-ready, extensible

Platform



Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



Secure, cloud-ready, extensible

Platform

Windows Admin Center is built for hybrid



Bridge to the cloud

Bridge to the cloud

Discover

Azure services in context of your management tools

Onboard

from your on-premises machine easily

Connect

to the Azure portal using contextual hyperlinks



Azure
Update Management



Azure
Site Recovery



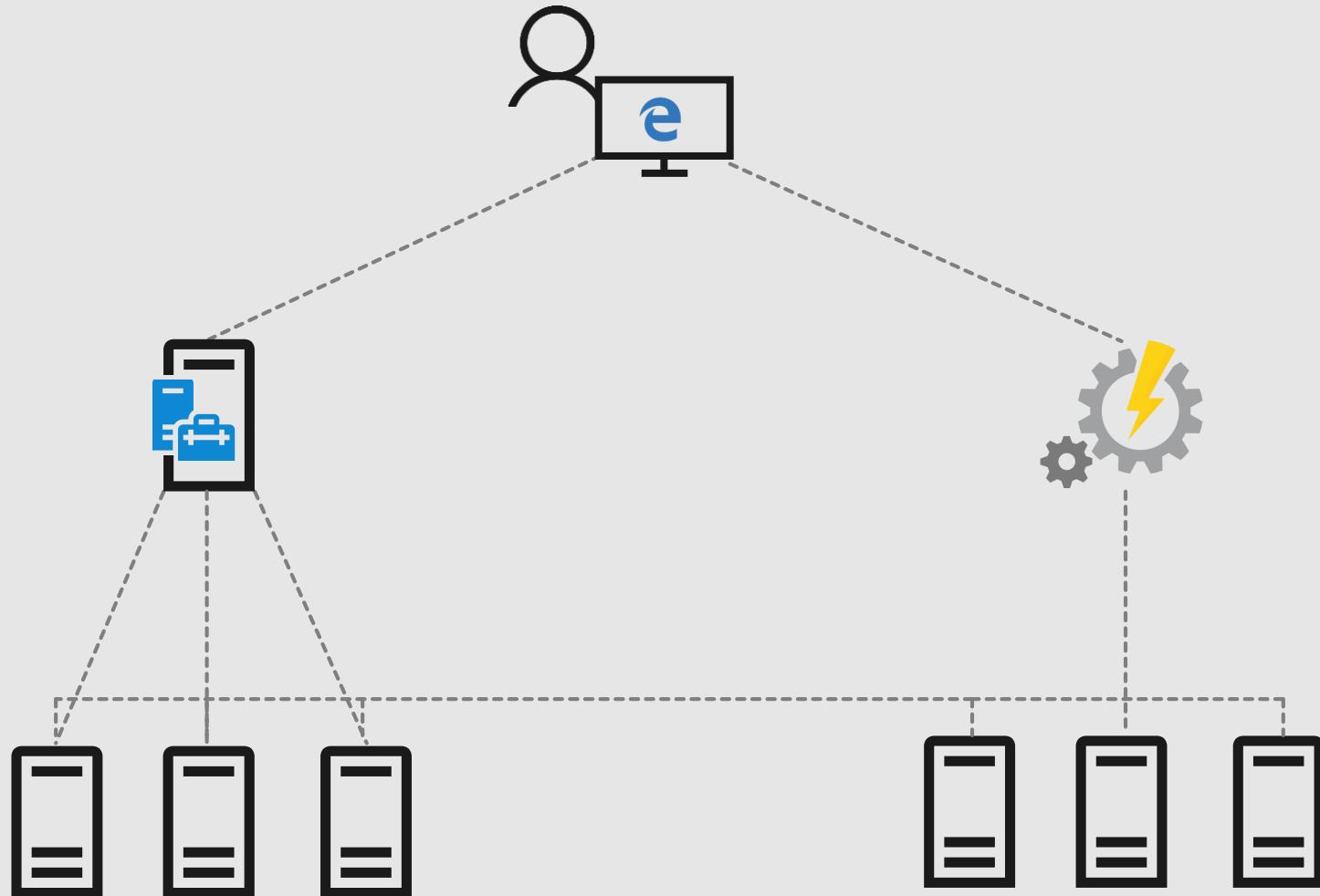
Azure
Backup



Azure Update Management

1 : 1
Windows Admin Center

1 : many
Azure Update Management



Deploy a Windows Hybrid Runbook Worker

04/24/2018 · 7 minutes to read · Contributors: 

You can use the Hybrid Runbook Worker feature of Azure Automation to run runbooks directly on the computer that's hosting the role and against resources in the environment to manage those local resources. Runbooks are stored and managed in Azure Automation and then delivered to one or more designated computers. This article describes how to install the Hybrid Runbook Worker on a Windows machine.

Installing the Windows Hybrid Runbook Worker

To install and configure a Windows Hybrid Runbook Worker, you can use two methods. The recommended method is using an Automation runbook to completely automate the process of configuring a Windows computer. The second method is following a step-by-step procedure to manually install and configure the role.

Note

To manage the configuration of your servers that support the Hybrid Runbook Worker role with Desired State Configuration (DSC), you need to add them as DSC nodes.

The minimum requirements for a Windows Hybrid Runbook Worker are:

- Windows Server 2012 or later.
- Windows PowerShell 4.0 or later ([download WMF 4.0](#)). We recommend Windows PowerShell 5.1 ([download WMF 5.1](#)) for increased reliability.
- .NET Framework 4.6.2 or later.
- Two cores.
- 4 GB of RAM.
- Port 443 (outbound).

To get more networking requirements for the Hybrid Runbook Worker, see [Configuring your network](#).

For more information about onboarding servers for management with DSC, see [Onboarding machines for management by Azure Automation DSC](#). If you enable the [Update Management solution](#), any Windows computer that's connected to your Azure Log Analytics workspace is automatically configured as a Hybrid Runbook Worker to support runbooks included in this solution. However, it isn't registered with any Hybrid Worker groups already defined in your Automation account.

The computer can be added to a Hybrid Runbook Worker group in your Automation account to support Automation runbooks as long as you're using the same account for both the solution and the Hybrid Runbook Worker group membership. This functionality has been added to version 7.2.12024.0 of the Hybrid Runbook Worker.

After you successfully deploy a runbook worker, review [Run runbooks on a Hybrid Runbook Worker](#) to learn how to configure your runbooks to automate processes in your on-premises datacenter or other cloud environment.

Manual deployment

Perform the first two steps once for your Automation environment, and then repeat the remaining steps for each worker computer.

1. Create a Log Analytics workspace

If you don't already have a Log Analytics workspace, create one by using the instructions at [Manage your workspace](#). You can use an existing workspace if you already have one.

2. Add the Automation solution to the Log Analytics workspace

Solutions add functionality to Log Analytics. The Automation solution adds functionality for Azure Automation, including support for Hybrid Runbook Worker. When you add the solution to your workspace, it automatically pushes worker components to the agent computer that you will install in the next step.

To add the Automation solution to your Log Analytics workspace, follow the instructions at [To add a solution using the Solutions Gallery](#).

3. Install the Microsoft Monitoring Agent

The Microsoft Monitoring Agent connects computers to Log Analytics. When you install the agent on your on-premises computer and connect it to your workspace, it automatically downloads the components that are required for Hybrid Runbook Worker.

To install the agent on the on-premises computer, follow the instructions at [Connect Windows computers to Log Analytics](#). You can repeat this process for multiple computers to add multiple workers to your environment.

When the agent has successfully connected to Log Analytics, it's listed on the Connected Sources tab of the Log Analytics Settings page. You can verify that the agent has correctly downloaded the Automation solution when it has a folder called AzureAutomationFiles in C:\Program Files\Microsoft Monitoring Agent\Agent\AzureAutomation\, and note the \version subfolder.

4. Install the runbook environment and connect to Azure Automation

When you add an agent to Log Analytics, the Automation solution pushes down the HybridRegistration PowerShell module, which contains the Add-HybridRunbookWorker cmdlet. You use this cmdlet to install the runbook environment on the computer and register it with Azure Automation.

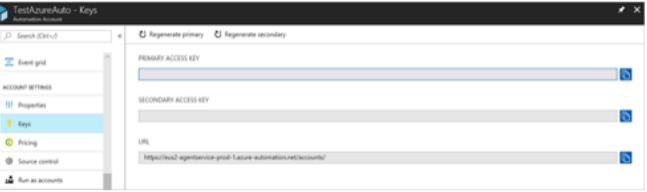
Open a PowerShell session in Administrator mode and run the following commands to import the module:

```
PowerShell
cd "C:\Program Files\Microsoft Monitoring Agent\Agent\AzureAutomation\<version>\HybridRegistration"
Import-Module HybridRegistration.ps1
```

Then run the Add-HybridRunbookWorker cmdlet by using the following syntax:

```
PowerShell
Add-HybridRunbookWorker -GroupName <String> -EndPoint <Url> -Token <String>
```

You can get the information required for this cmdlet from the Manage Keys page in the Azure portal. Open this page by selecting the Keys option from the Settings page in your Automation account.



- GroupName is the name of the Hybrid Runbook Worker group. If this group already exists in the Automation account, the current computer is added to it. If this group doesn't exist, it's added.
- EndPoint is the URL entry on the Manage Keys page.
- Token is the PRIMARY ACCESS KEY entry on the Manage Keys page.

To receive detailed information about the installation, use the -Verbose switch with Add-HybridRunbookWorker.

5. Install PowerShell modules

Runbooks can use any of the activities and cmdlets defined in the modules that are installed in your Azure Automation environment. These modules are not automatically deployed to on-premises computers, so you must install them manually. The exception is the Azure module, which is installed by default and provides access to cmdlets for all Azure services and activities for Azure Automation.

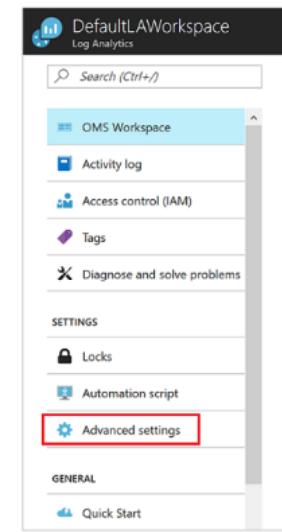
Because the primary purpose of the Hybrid Runbook Worker feature is to manage local resources, you most likely need to install the modules that support these resources. For information on installing Windows PowerShell modules, see [Installing Modules](#).

Modules that are installed must be in a location referenced by the PSModulePath environment variable so that the hybrid worker can automatically import them. For more information, see [Modifying the](#)

Obtain workspace ID and key

Before installing the Microsoft Monitoring Agent for Windows, you need the workspace ID and key for your Log Analytics workspace. This information is required during setup from each installation method to properly configure the agent and ensure it can successfully communicate with Log Analytics in Azure commercial and US Government cloud.

- In the Azure portal, click All services. In the list of resources, type Log Analytics. As you begin typing, the list filters based on your input. Select Log Analytics.
- In your list of Log Analytics workspaces, select the workspace you intend on configuring the agent to report to.
- Select Advanced settings.



- Select Connected Sources, and then select Windows Servers.
- Copy and paste into your favorite editor, the Workspace ID and Primary Key.

Install the agent using setup wizard

The following steps install and configure the agent for Log Analytics in Azure and Azure Government cloud by using the setup wizard for the Microsoft Monitoring Agent on your computer.

- In your Log Analytics workspace, from the Windows Servers page you navigated to earlier, select the appropriate Download Windows Agent version to download depending on the processor architecture of the Windows operating system.
- Run Setup to install the agent on your computer.
- On the Welcome page, click Next.
- On the License Terms page, read the license and then click I Agree.
- On the Destination Folder page, change or keep the default installation folder and then click Next.
- On the Agent Setup Options page, choose to connect the agent to Azure Log Analytics (OMS) and then click Next.
- On the Azure Log Analytics page, perform the following:
 - Paste the Workspace ID and Workspace Key (Primary Key) that you copied earlier. If the computer should report to a Log Analytics workspace in Azure Government cloud, select Azure US Government from the Azure Cloud drop-down list.
 - If the computer needs to communicate through a proxy server to the Log Analytics service, click Advanced and provide the URL and port number of the proxy server. If your proxy server requires authentication, type the username and password to authenticate with the proxy server and then click Next.
- Click Next once you have completed providing the necessary configuration settings.

Available Updates - Upc

https://smeadgw.redmond.corp.microsoft.com/servermanager/connections/server/sme-server8.redmond.corp.microsoft.com/tools/windowsupdate/status

Windows Admin Center Server Manager

Microsoft

sme-server8.redmond.corp.microsoft.com

Tools <

Search Tools

Available Updates Update History

Centrally manage updates on all of your servers by using Azure Update Management [Set up now](#) Learn more

Updates are available. Last checked: 9/14/18, 11:52 AM

Settings Check online for updates from Microsoft Update

Update Title	Msrc Severity	Mandatory
Windows Malicious Software Removal Tool x64 - September 2018 (KB890830)	Unspecified	No

1 item

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Settings

Install all available updates. The remote server may require a restart after installing updates.

Restart immediately

Schedule restart

Enter restart date and time: mm/dd/yyyy --:--:--

Install updates

redmond.corp.microsoft.com



Windows Update



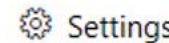
[Available Updates](#) [Update History](#)



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[Settings](#)  Check online for updates from Microsoft Update

Update Title

Msrc Severity

Windows Malicious Software Removal Tool x64 - September 2018 ([KB890830](#))

Unspecified

Available Updates - Upc

https://smeadgw.redmond.corp.microsoft.com/servermanager/connections/server/sme-server8.redmond.corp.microsoft.com/tools/windowsupdate/status

Windows Admin Center Server Manager

Microsoft

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1 item

Install all available updates. The remote server may require a restart after installing updates.

Restart immediately

Schedule restart

Enter restart date and time: mm/dd/yyyy --:--:--

Install updates

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Check online for updates from Microsoft Update

Update Title

Windows Malicious Software Removal Tool x64 - September 2018 (KB890830)

Msrc Severity

Unspecified

Updates and restarts are managed by Azure Update Management

[Manage in Azure](#)

[Stop managing with Azure](#)

Install all available updates. The remote server may require a restart after installing updates.

Restart immediately

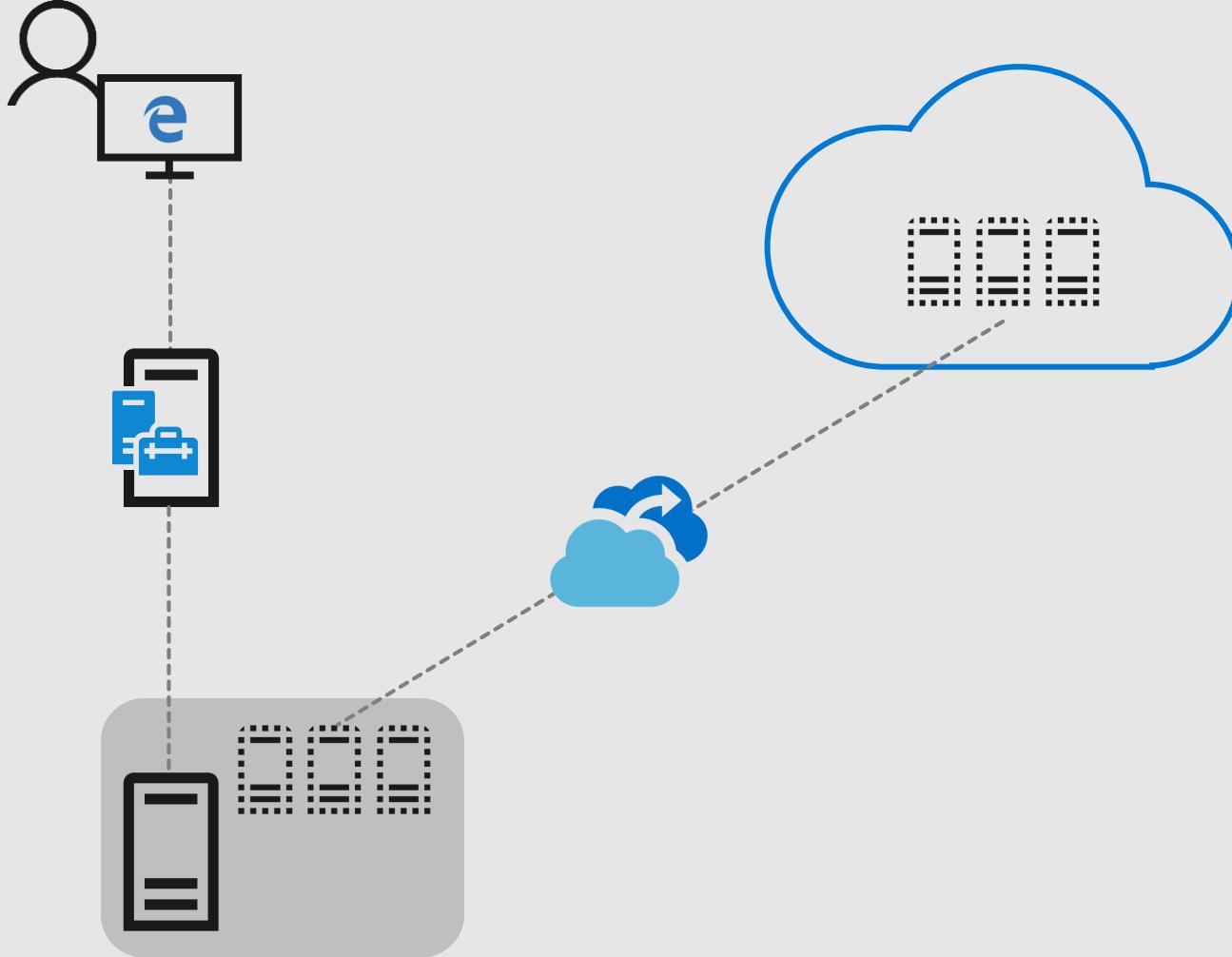
Schedule restart

Enter restart date and time:

Install updates



Azure Site Recovery



harowl-box.redmond.corp.microsoft.com

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Virtual machines

MORE COMING SOON

**Help protect your VMs from disasters by using Azure Site Recovery.** [Set up now](#)[Learn more](#)

Summary

Inventory

Summary

2

Total virtual machines

Running
2Off
0Saved
0Paused
0

CPU

Host
8%Guest
0%8%
of total CPU

Top CPU usage

Name	CPU usage
test-vm1	0 %
harowl-2016-srv1	0 %

Events

Microsoft-Windows-Hyper-V-VMMS A minute ago Hyper-V failed to replicate changes for virtual machine 'test-vm1' (Virtual machine ID 5A4C7754-FED7-40E5-AE7B-EACB0F500509). Hyper-V will retry replication after 5 minute(s).

Microsoft-Windows-Hyper-V-VMMS A minute ago 'Class not registered' error received while trying to instantiate the replication provider for virtual machine 'test-vm1'. Review the provider event logs for details. (Virtual machine ID 5A4C7754-FED7-40E5-AE7B-EACB0F500509)

[VIEW ALL EVENTS >](#)

Memory

Host
16.8%Guest
9.4%26.2%
of 31.9 GB

Top assigned memory

Name	Assigned memory
test-vm1	6.3 %
harowl-2016-srv1	3.1 %

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Virtual machines

MORE COMING SOON

Inventory

New Delete Start Turn off Shut down Save

Name	State	CPU usage	Memory pressure
harowl-2016-srv1	Running	0 %	0 %
test-vm1	Running	0 %	53 %
test-vm2	Running	0 %	52 %
test-vm3	Running	0 %	53 %

More

Delete saved state

Pause

Resume

Reset

New checkpoint

Settings

Rename

Connect

Download RDP file

Protect VM

4 items

Uptime	Heartbeat	Disaster Rec...
8:20:49:09	No contact	Not protected
1:12:41:01	OK	
0:00:01:38	OK	Not protected
0:00:01:34	OK	Not protected

harowl-box.redmond.corp.microsoft.com

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Virtual machines > test-vm1

Delete Start Turn off Shut down Save Delete saved state Pause Resume Reset More

Overview

State	Host	Dynamic memory
Running	HAROWL-BOX	Disabled
Last replication	Last successful checkpoint	Uptime
-	-	5:20:15:14
Generation	Memory assigned	Memory demand
2	2 GB	1.28 GB
Status	Virtual processors	Created
Operating normally	2	Jul 27, 2018, 4:35:43 PM
Operating system	Operating system version	Integration services version
Windows 10 Pro	10.0.17134	10.0.17134
Computer name	Clustered	Disaster Recovery status
harowl1.redmond.corp.microsoft.com	No	Normal View in Azure

Normal

[View in Azure](#) 

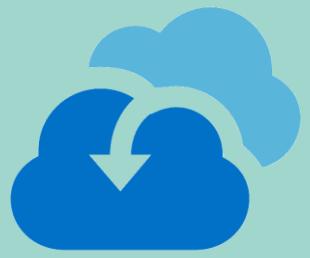
Performance

Checkpoints

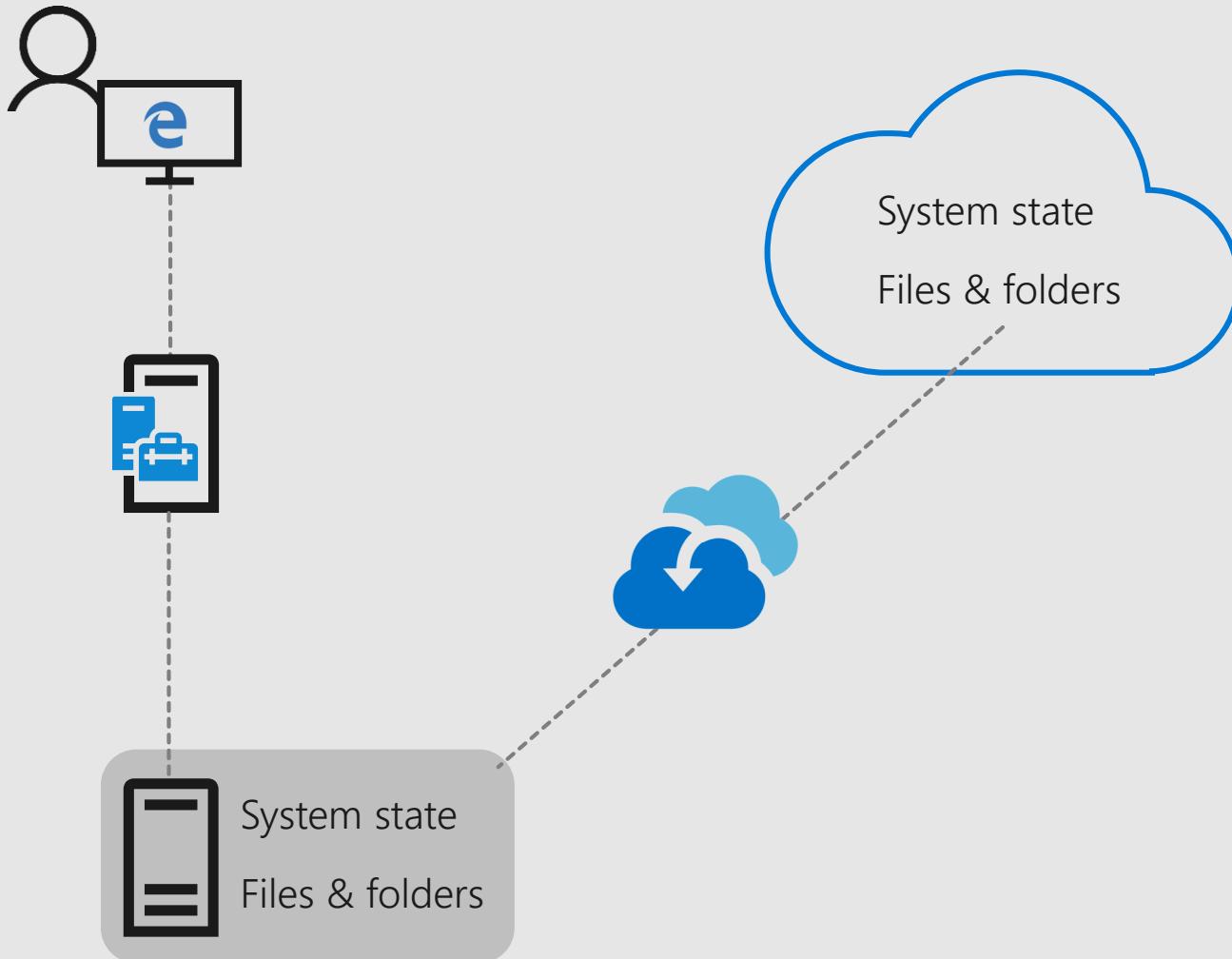
Apply Rename Delete checkpoint

There aren't any checkpoints.

Details



Azure Backup



Backup (Preview) - Serv X +

localhost:6516/servermanager/connections/server/harshitvm6/tools/Backup

Windows Admin Center Server Manager Microsoft

smehost.redmond.corp.microsoft.com

Tools <

Search Tools

Overview Backup Certificates Devices Events Files Firewall Installed Apps Local Users & Groups Network PowerShell Processes Registry Remote Desktop Roles & Features Scheduled Tasks Services Storage Storage Replica Updates Virtual Machines Virtual Switches Settings

Azure Backup PREVIEW ⓘ

Protect your Windows Servers from corruptions, attacks or disasters by backing up your server directly to Microsoft Azure. [Provide feedback](#)

Overview Recovery Points Jobs

Recovery Services Vault: azaz

Last Backup Status: Failed

Backup and Retention schedule: [Backup Policy](#)

Next Scheduled Backup: 7/13/2018 9:00:00 PM

Subscription Id: c183865e-6077-46f2-a3b1-deb0f4f4650a

Latest Recovery Point: 7/12/2018 10:04:09 PM

Oldest Recovery Point: 6/29/2018 4:09:51 PM

Update Information: Up To Date

Jobs
Success :- 8 Failed :- 2
Warning :- 0 In Progress :- 0

Recovery Points
Files and Folders :- 2 System State :- 14

Recent Jobs

Jobs	Start Time
Backup of System State : Job failed.	7/13/2018 9:31:43 AM
Backup of System State : Job completed.	7/12/2018 10:04:09 PM

Protected Items

Backup Now Stop Backup Refresh Delete backup data

Name	Protection Status	Latest Backup Status	Latest Recovery Point	Last Backup Duration
E:\	Valid	Success	7/10/2018 9:30:39 AM	00:01:07
System State	Valid	Failed	7/12/2018 10:04:09 PM	07:26:43

Backup (Preview) - Serv X | Backup Items - Microsoft A: | Backup Alerts - Microsoft A | Configure notifications - Mi +

localhost:6516/servermanager/connections/server/harshitvm6/tools/Backup

Windows Admin Center Server Manager > 🔍 ⚙️ ?

harshitvm6

Tools <

Search Tools

Overview Backup Certificates Devices Events Files Firewall Installed Apps Local Users & Groups Network PowerShell Processes Registry Remote Desktop Roles & Features Scheduled Tasks Services Storage Storage Replica Updates Virtual Machines Virtual Switches Settings

Azure Backup PREVIEW ⓘ

Protect your Windows Servers from corruptions, attacks or disasters by backing up your server directly to Microsoft Azure. [Provide feedback](#)

Overview Recovery Points Jobs

Recover Data Refresh

Time	Backup Items
7/12/2018 10:04:09 PM	System State
7/12/2018 2:16:36 AM	System State
7/10/2018 8:35:09 PM	System State
7/9/2018 9:40:47 PM	System State
7/8/2018 8:20:37 PM	System State
7/7/2018 8:14:10 PM	System State
7/6/2018 7:11:05 PM	System State
7/5/2018 7:28:18 PM	System State
7/4/2018 9:21:27 PM	System State
7/3/2018 8:08:39 PM	System State
7/2/2018 5:10:15 PM	System State
7/1/2018 5:01:13 PM	System State
6/30/2018 5:17:09 PM	System State
6/29/2018 4:09:51 PM	System State
7/10/2018 9:30:39 AM	E:\
7/3/2018 9:30:30 AM	E:\

Backup (Preview) - Serv X | Backup Items - Microsoft A: | Backup Alerts - Microsoft A | + |

localhost:6516/servermanager/connections/server/harshitvm6/tools/Backup

Windows Admin Center Server Manager > 🔍 3 ⓘ ?

harshitvm6

Tools <

Search Tools 🔍

Overview Backup Certificates Devices Events Files Firewall Installed Apps Local Users & Groups Network PowerShell Processes Registry Remote Desktop Roles & Features Scheduled Tasks Services Storage Storage Replica Updates Virtual Machines Virtual Switches Settings

Azure Backup PREVIEW ⓘ

Protect your Windows Servers from corruptions, attacks or disasters by backing up your server directly to Microsoft Azure. [Provide feedback](#)

Overview Recovery Points **Jobs**

⟳ Refresh ⚡ Alerts and Notifications

Backup Items	Status	Operation	Start Time	Duration
System State	✓ Azure backup is running prechecks be...	Backup	7/13/2018 5:04:54 PM	-
System State	✗ Job failed.	Backup	7/13/2018 9:31:43 AM	07:26:43
System State	✓ Job completed.	Backup	7/12/2018 10:04:09 PM	00:16:54
System State	✓ Job completed.	Backup	7/12/2018 2:16:36 AM	00:31:39
System State	✓ Job completed.	Backup	7/10/2018 8:35:09 PM	00:25:59
E:\	✓ Job completed.	Backup	7/10/2018 9:30:39 AM	00:01:07
System State	✗ Job failin...	Backup	7/10/2018 9:30:23 AM	00:01:08
System State	✓ Job completed.	Backup	7/9/2018 9:40:47 PM	00:17:01
System State	✓ Job completed.	Backup	7/8/2018 8:20:37 PM	00:16:34
System State	✓ Job completed.	Backup	7/7/2018 8:14:10 PM	00:30:42
System State	✓ Job completed.	Backup	7/6/2018 7:11:05 PM	00:34:01

Backup (Preview) - Serv X | Backup Items - Microsoft A: + < > ×

localhost:6516/servermanager/connections/server/harshitvm6/tools/Backup

Windows Admin Center Server Manager > 🔍 ⓘ ⚙️ ?

harshitvm6

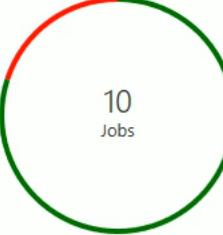
Azure Backup PREVIEW ⓘ

Protect your Windows Servers from corruptions, attacks or disasters by backing up your server directly to Microsoft Azure. [Provide feedback](#)

Overview Recovery Points Jobs

Recovery Services Vault azaz	Backup and Retention schedule Backup Policy	Subscription Id c183865e-6077-46f2-a3b1-deb0f4f4650a	Latest Recovery Point 7/12/2018 10:04:09 PM
Last Backup Status Failed	Next Scheduled Backup 7/13/2018 9:00:00 PM	Oldest Recovery Point 6/29/2018 4:09:51 PM	Update Information Up To Date

Jobs
Success :- 8 Failed :- 2
Warning :- 0 In Progress :- 0



Recovery Points
Files and Folders :- 2 System State :- 14



Recent Jobs

Jobs	Start Time
Backup of System State : Job failed.	7/13/2018 9:31:43 AM
Backup of System State : Job completed.	7/12/2018 10:04:09 PM

Protected Items

Backup Now Stop Backup Refresh Delete backup data

Name	Protection Status	Latest Backup Status	Latest Recovery Point	Last Backup Duration
E:\	Valid	Success	7/10/2018 9:30:39 AM	00:01:07
System State	Valid	Failed	7/12/2018 10:04:09 PM	07:26:43

Search Tools ⌂

Overview

Backup

Certificates

Devices

Events

Files

Firewall

Installed Apps

Local Users & Groups

Network

PowerShell

Processes

Registry

Remote Desktop

Roles & Features

Scheduled Tasks

Services

Storage

Storage Replica

Updates

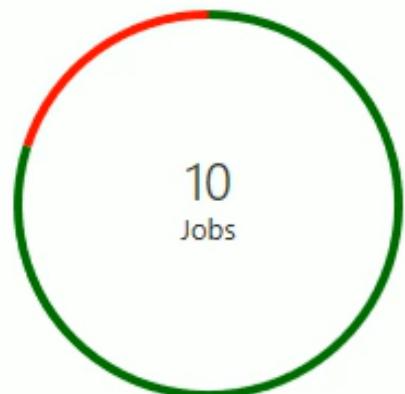
Virtual Machines

Virtual Switches

Settings

Jobs

Success :- 8 Failed :- 2
Warning :- 0 In Progress :- 0



Recovery Points

Files and Folders :- 2
System State :- 14



Recent Jobs

Jobs	Start Time
Backup of System State : Job failed.	7/13/2018 9:31:43 AM
Backup of System State : Job completed.	7/12/2018 10:04:09 PM

Protected Items

Backup Now Stop Backup Refresh Delete backup data

Name	Protection Status	Latest Backup Status	Latest Recovery Point	Last Backup Duration
E:\	Valid	Success	7/10/2018 9:30:39 AM	00:01:07
System State	Valid	Failed	7/12/2018 10:04:09 PM	07:26:43

Bridge to the cloud

Discover

Azure services in context of your management tools

Onboard

from your on-premises machine easily

Connect

to the Azure portal using contextual hyperlinks



Azure
Update Management



Azure
Site Recovery



Azure
Backup

Bridge to the cloud

Discover

Azure services in context of your management tools

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to the Azure portal using contextual hyperlinks



Azure
Update Management



Azure
Site Recovery



Azure
Backup

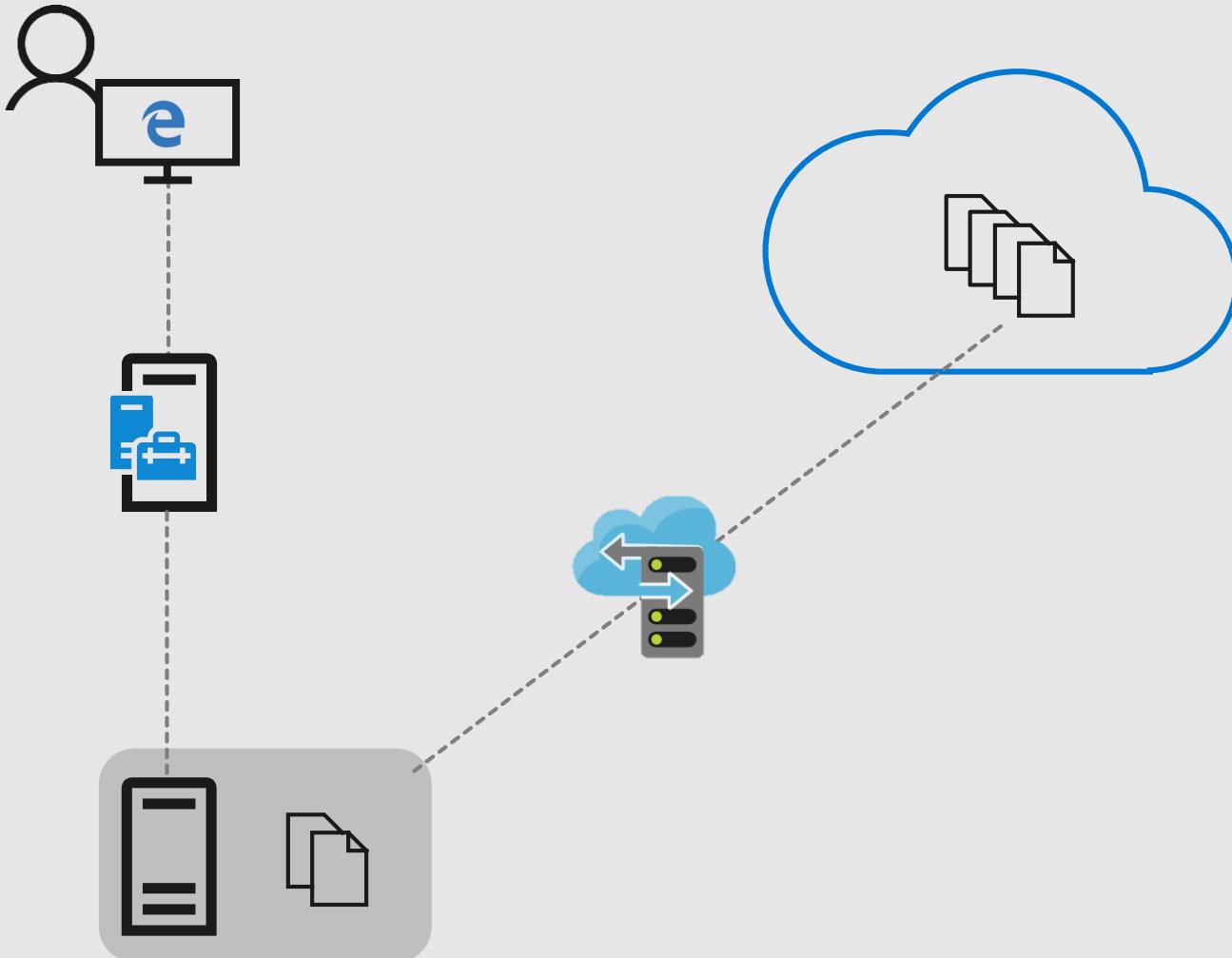


Azure
File Sync

And more!



Azure
File Sync



Windows Admin Center is built for hybrid



Bridge to the cloud

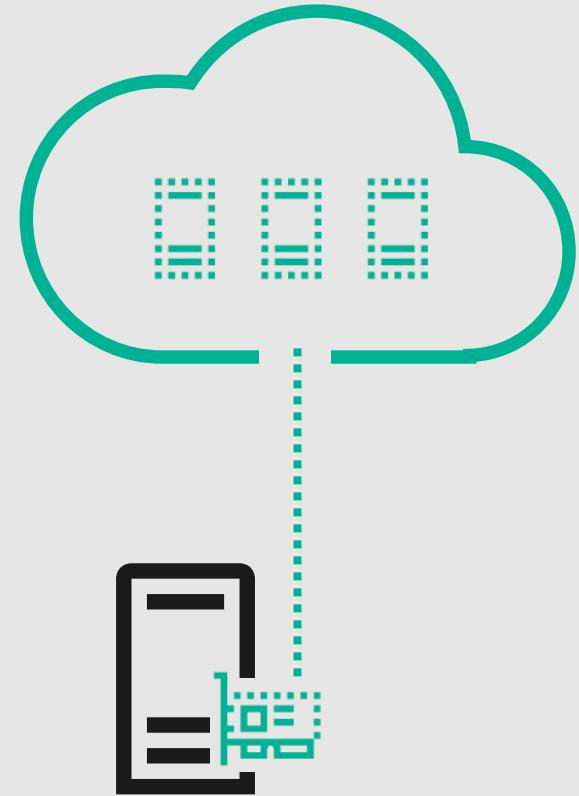


Embrace true hybrid infrastructure

Embrace true hybrid infrastructure

Azure Network Adapter: Point-to-site VPN
into an Azure vNet in 1 click

Connect on-premises servers to Azure
resources



Azure Network Adapter

1

Network

+ Add Azure Network Adapter Settings Delete

Name	Description	Status
vEthernet (SDNSwitch)	Hyper-V Virtual Ethernet Adapter	Up
Ethernet 2	Microsoft Hyper-V Network Adapter #2	Up

2

Add Azure Network Adapter

Subscription * Required
RDMI Partner

Location * Required
West US 2

Virtual Network * Required
ContosoVNET

[View selected Virtual Network in Azure Portal](#)

Azure Virtual Network Gateway Settings
Virtual Network Gateway [WAC-Created-vpngw-53](#) already exists for this Virtual Network.

Gateway Subnet * Required
10.4.1.0/24

Gateway SKU * Required
VpnGw1

VPN Settings

Client Address Space * Required
10.127.132.128/25

Authentication Certificate * Required

Add Auto-generated Self-signed root and client Certificate

Add my own root and client certificate

Create **Cancel**

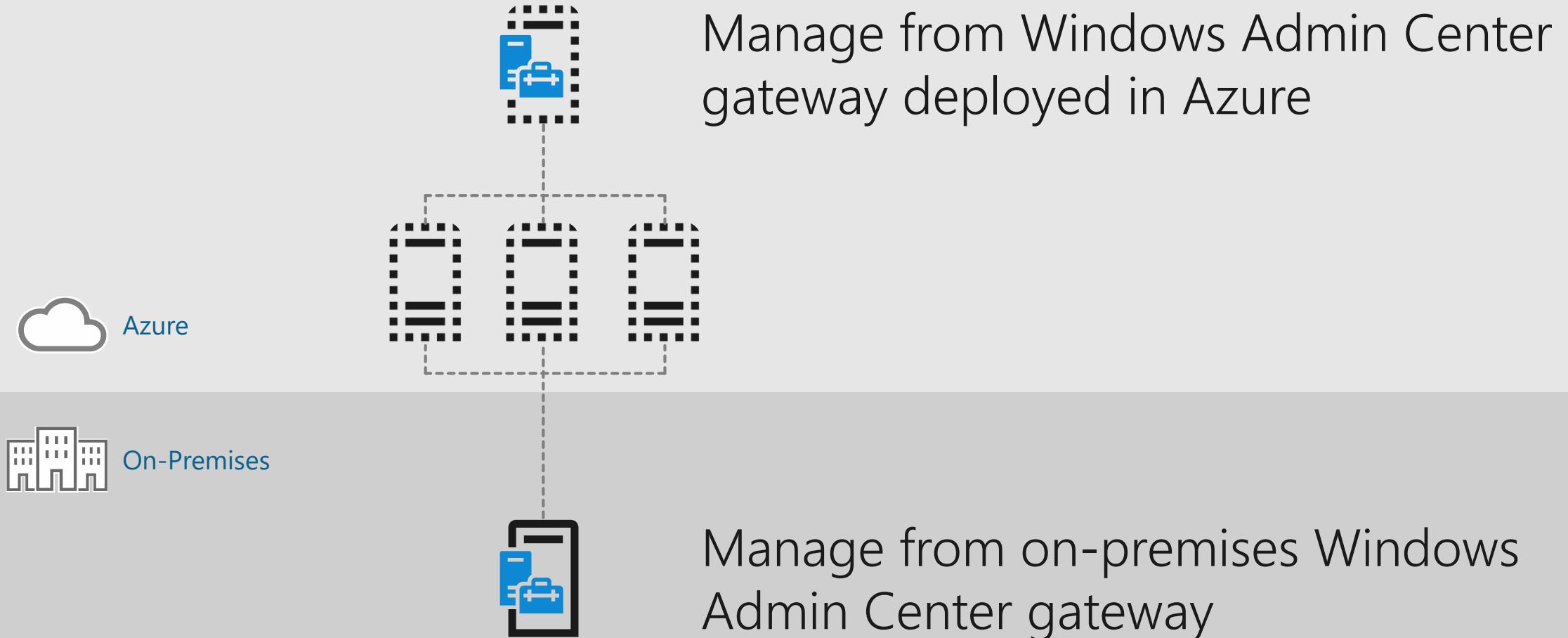
3

Network

+ Add Azure Network Adapter Settings Delete

Name	Description	Status
vEthernet (SDNSwitch)	Hyper-V Virtual Ethernet Adapter	Up
Ethernet 2	Microsoft Hyper-V Network Adapter #2	Up
WACVPN-31320	Point to Site VPN to Azure Virtual Network 'ContosoVN...'...	Connected

Manage Azure VMs



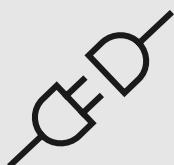
Windows Admin Center is built for hybrid



Bridge to the cloud



Embrace true hybrid infrastructure

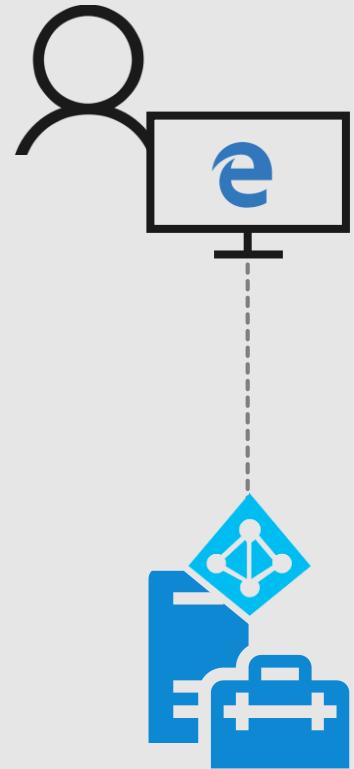


Enhance Windows Admin Center capabilities with Azure

Enhance Windows Admin Center capabilities with Azure

Leverage **Azure Active Directory authentication** for an added layer of protection to access Windows Admin Center

Use conditional access policies like multi-factor authentication



Enhance Windows Admin Center capabilities with Azure

In the future...

Configure email notifications about server health using [Azure Monitor](#) without leaving Windows Admin Center



Windows Admin Center is built for hybrid



Bridge to the cloud



Embrace true hybrid infrastructure



Enhance Windows Admin Center capabilities with Azure



Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



Secure, cloud-ready, extensible

Platform



Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



Secure, cloud-ready, extensible

Platform

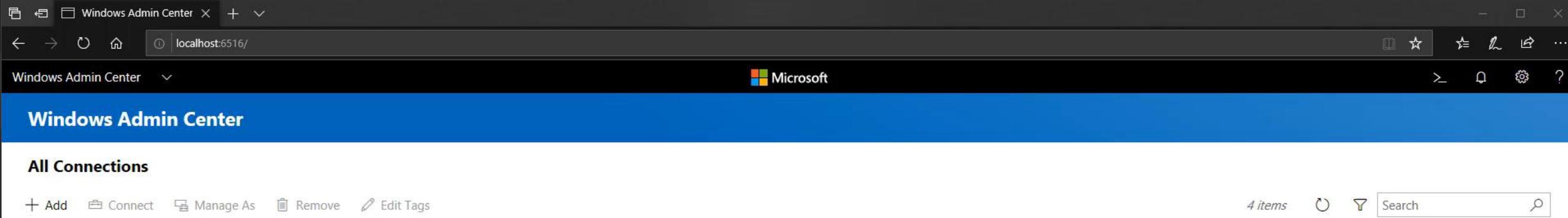
Microsoft



Partners



Customer
value



Name	Type	Last Connected	Managing As	Tags
brnichol-vm04.cfdev.nttest.microsoft.com	Server	8/28/2018, 9:07:22 AM	REDMOND\matwils	
matwils-2016-2.redmond.corp.microsoft.com	Server	9/20/2018, 9:41:55 AM	REDMOND\matwils	
matwils-sme1.redmond.corp.microsoft.com	Windows PC	9/17/2018, 2:54:27 PM	REDMOND\matwils	
sme-full2.redmond.corp.microsoft.com	Server	9/5/2018, 3:02:52 PM	REDMOND\matwils	



Install

8 items

Se

Name ↑	Version	Created By	Package Feed
DataON MUST Visibility, Monitoring, and Management Tool	2.0.0	DataON	Windows Admin Center Feed
Fujitsu ServerView® Health	1.0.0	Fujitsu Technology Solutions	Windows Admin Center Feed
Fujitsu ServerView® RAID	1.0.0	Fujitsu Technology Solutions	Windows Admin Center Feed
Pure Storage FlashArray (Preview)	1.0.19	Pure Storage	Windows Admin Center Feed
QCT-Management-Suite (Preview)	0.1.15	QCTTW	Windows Admin Center Feed
Squared Up for System Center Operations Manager (SCOM) (Preview)	0.4.51	Squared Up Ltd.	Windows Admin Center Feed
Windows Admin Center Developer Tools (Preview)	0.1.1	Microsoft	Windows Admin Center Feed
Windows Defender (Preview)	0.1.0	Microsoft	Windows Admin Center Feed

Install

7 items

Se

Name ↑	Version	Created By	Package Feed
DataON MUST Visibility, Monitoring, and Management Tool	2.0.0	DataON	Windows Admin Center Feed
Fujitsu ServerView® Health	1.0.0	Fujitsu Technology Solutions	Windows Admin Center Feed
Fujitsu ServerView® RAID	1.0.0	Fujitsu Technology Solutions	Windows Admin Center Feed
Pure Storage FlashArray (Preview)	1.0.19	Pure Storage	Windows Admin Center Feed
QCT-Management-Suite (Preview)	0.1.15	QCTTW	Windows Admin Center Feed
Squared Up for System Center Operations Manager (SCOM) (Preview)	0.4.51	Squared Up Ltd.	Windows Admin Center Feed
Windows Admin Center Developer Tools (Preview)	0.1.1	Microsoft	Windows Admin Center Feed



[Uninstall](#) [Update](#)

27 items

Se

Name ↑	Status	Version	Created By
msft.sme.process-viewer	Installed	0.188.0	Microsoft
msft.sme.registry-editor	Installed	0.153.0	Microsoft
msft.sme.remote-desktop	Installed	0.323.0	Microsoft
msft.sme.roles-features	Installed	0.251.0	Microsoft
msft.sme.scheduled-tasks	Installed	0.103.0	Microsoft
msft.sme.sdn-monitoring	Installed	0.10.0	Microsoft
msft.sme.service-viewer	Installed	0.178.0	Microsoft
msft.sme.software-defined-data-center	Installed	0.199.0	Microsoft
msft.sme.storage	Installed	0.190.0	Microsoft
msft.sme.storage-migration	Installed	0.57.0	Microsoft
msft.sme.storage-replica	Installed	0.71.0	Microsoft
msft.sme.system-insights	Installed	0.56.0	Microsoft
msft.sme.windows-update	Installed	0.185.0	Microsoft
Windows Defender (Preview)	Installed	0.1.0	Microsoft

Details - Windows Defender (Preview)



Description

The Windows Defender extension for Windows Admin Center allows administrators to see the security status, and threat history as reported by Windows Defender.

ID

microsoft.security

Version

0.1.0



Authors

Uninstall Update

26 items

Se

Name ↑	Status	Version	Created By
msft.azure.azure-backup	Installed	0.136.0	Microsoft
msft.sme.apps-and-features	Installed	0.210.0	Microsoft
msft.sme.certificate-manager	Installed	0.168.0	Microsoft
msft.sme.device-manager	Installed	0.262.0	Microsoft
msft.sme.event-viewer	Installed	0.341.0	Microsoft
msft.sme.failover-cluster	Installed	0.267.0	Microsoft
msft.sme.file-explorer	Installed	0.306.0	Microsoft
msft.sme.firewall	Installed	0.283.0	Microsoft
msft.sme.hyperv	Installed	0.448.0	Microsoft
msft.sme.local-users-groups	Installed	0.151.0	Microsoft
msft.sme.network-controller	Installed	0.11.0	Microsoft
msft.sme.network-settings	Installed	0.141.0	Microsoft
msft.sme.powershell-console	Installed	0.106.0	Microsoft
msft.sme.process-viewer	Installed	0.188.0	Microsoft
msft.sme.registry-editor	Installed	0.153.0	Microsoft
msft.sme.roles-features	Installed	0.251.0	Microsoft
msft.sme.scheduled-tasks	Installed	0.103.0	Microsoft
msft.sme.sdn-monitoring	Installed	0.10.0	Microsoft
msft.sme.service-viewer	Installed	0.178.0	Microsoft
msft.sme.software-defined-data-center	Installed	0.199.0	Microsoft
msft.sme.storage	Installed	0.190.0	Microsoft
msft.sme.storage-migration	Installed	0.57.0	Microsoft

Details

Extensions

We might have to restart the Windows Admin Center gateway after installing an extension, temporarily affecting availability for anyone else currently using this gateway.

Available extensions Installed extensions **Feeds**

+ Add Remove

Package feeds ↑

<https://aka.ms/sme-extension-feed>

Add package source

Extension feed URL or path

C:\temp\PrivateFeed



Add

Cancel



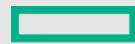
Install

10 items



Name ↑	Version	Created By	Package Feed
DataON MUST Visibility, Monitoring, and Management Tool	2.0.0	DataON	Windows Admin Center Feed
Fujitsu ServerView® Health	1.0.0	Fujitsu Technology Solutions	Windows Admin Center Feed
Fujitsu ServerView® RAID	1.0.0	Fujitsu Technology Solutions	Windows Admin Center Feed
msft.sme.remote-desktop	0.323.0	Microsoft	Pre-installed
Pure Storage FlashArray (Preview)	1.0.19	Pure Storage	Windows Admin Center Feed
QCT-Management-Suite (Preview)	0.1.15	QCTTW	Windows Admin Center Feed
Squared Up for System Center Operations Manager (SCOM) (Preview)	0.4.51	Squared Up Ltd.	Windows Admin Center Feed
Windows Admin Center Developer Tools (Preview)	0.1.1	Microsoft	Windows Admin Center Feed
Windows Admin Center Gateway Plugin (Preview)	0.0.1	Microsoft	C:\temp\PrivateFeed
Windows Defender	0.2.0	Microsoft	C:\temp\PrivateFeed

Windows Admin Center Partners



Hewlett Packard
Enterprise



Orchestrating a brighter world



5224p0cluster4.fast.dataonstorage.com

Tools



Dashboard

COMPUTE

Virtual Machines

Virtual Switches

Servers

STORAGE

Volumes

Drives

TOOLS

Updates

EXTENSIONS

DataON MUST

DataON MUST for Windows Admin Center

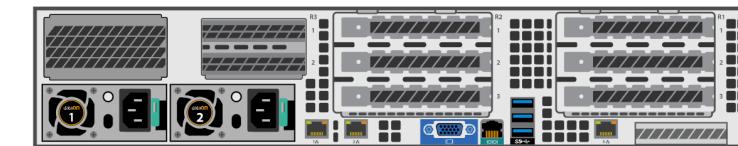
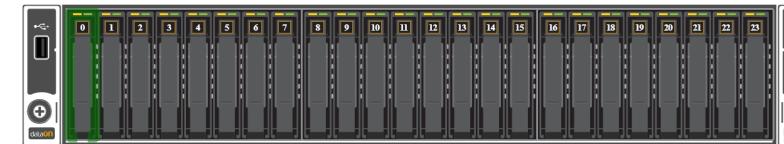
www.dataonstorage.com

HCI Reports



About DataON

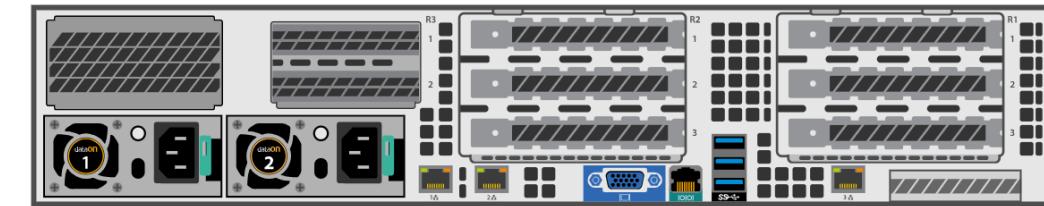
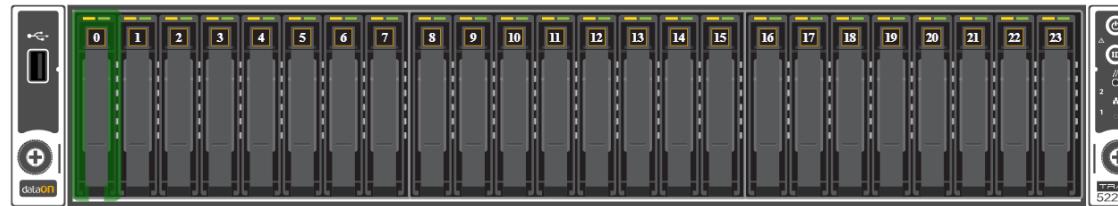
V17698-N1.fast.dataonstorage.com



SerialNumber	Slot	Health Status	Model name	Type	Size	Used For	Usage
V17698-N1.fast.dataonstorage.com							
CVPF634200DP450...	0	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.74%
CVPF634600KD450...	1	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.98%
CVPF6346006R450R...	2	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.98%
CVPF6346006N450...	3	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.74%
CVPF63460026450R...	4	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.98%
CVPF634200AT450R...	5	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.74%
v17698-N3.fast.dataonstorage.com							

[Drive Map](#)[HCI Reports](#)[Alert Services](#)[About DataON](#)

V17698-N1.fast.dataonstorage.com



SerialNumber	Slot	Health Status	Model name	Type	Size	Used For	Usage
✓ V17698-N1.fast.dataonstorage.com							
CVPF634200DP450...	0	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.74% <div style="width: 40.74%; background-color: #2e7131;"></div>
CVPF634600KD450...	1	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.98% <div style="width: 40.98%; background-color: #2e7131;"></div>

[Drive Map](#)[HCI Reports](#)[Alert Services](#)[Call Home Service](#)[About DataON](#)[Setting](#)

Alert by Category

● Enclosures 0● Network Adapters / Interfaces 0● Volume Capacity 0● Storage QoS 0● Pool Capacity 0● Physical Disks 0● Servers 0● Firmware Updates 0● Clusters 0● Virtual Disks 0● Other 0

Active Alerts

 [Delete Selected Alert](#) [Remove All Alerts](#)

Severity	Category	Description	Time	Location	Recommended Action
Critical	Cluster	The cluster 5224P0cluster4	8/24/2018 6:22:34 AM	Not available	Consider moving virtual machine
Critical	Server	**Test** Server 'king-n4', DataON...	9/11/2018 2:46:19 PM	**Test** Server 'king-n4', DataON...	**Test** Start or replace server

rx350s8

Tools

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Registry	
Remote Desktop	
Roles & Features	
Scheduled Tasks	
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Virtual Machines	
Virtual Switches	
EXTENSIONS	
FUJITSU ServerView® Health	
FUJITSU ServerView® RAID	

ServerView® Health

Overview

Server Health

Power Consumption

Settings



Health Tree

System Event Log

Driver Monitor

Components

Processors

Memory Modules

Fans / Cooling

Power Supplies

Temperatures

Voltages

Health State Components Tree

123 items

System

Environment Subsystem

Power Supply Subsystem

Mass Storage Subsystem

System Board Subsystem

BIOS Selftest

Trusted Platform Module

System Board Voltages

Memory Modules

System Processors

PCI Slots

Network

Driver Monitor

'Trusted Platform Module' Details

Status	Not Present
Name	Trusted Platform Module
Description	Status of "Trusted Platform Module", parent status "System Board Subsystem"
Caption	System Board Subsystem - Trusted Platform Module
Instance ID	0-3-5
Is Leaf	Yes
CSS Component	No
Monitored Component	No

Health Tree

System Event Log

Driver Monitor

Components

Processors

Memory Modules

Fans / Cooling

Power Supplies

Temperatures

Voltages

Health State Components Tree

123 items



System

Environment Subsystem

Power Supply Subsystem

Mass Storage Subsystem

System Board Subsystem

BIOS Selftest

Trusted Platform Module

System Board Voltages

Memory Modules

System Processors

PCI Slots

Network

Driver Monitor

'Trusted Platform Module' Details

Status

Not Present

Name

Trusted Platform Module

Description

Status of "Trusted Platform Module", parent status "System Board Subsystem"

Caption

System Board Subsystem - Trusted Platform Module

Instance ID

0-3-5

Is Leaf

Yes

CSS Component

No

Monitored Component

No

rx350s8

Tools



ServerView® RAID

Search Tools <input type="text"/>	
Overview	
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Installed Apps	
Local Users & Groups	
Network	
PowerShell	
Processes	
Registry	
Remote Desktop	
Roles & Features	
Scheduled Tasks	
Services	
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Updates	
Virtual Machines	
Virtual Switches	
EXTENSIONS	
FUJITSU ServerView® Health	
FUJITSU ServerView® RAID	

Overview

Storage Device Tree

Drives

Volumes

Settings



11 items

Name	Status
Windows Advanced Host Controller Interface (0)	OK
FTS RAID Ctrl SAS 6G 1GB (D3116C) (1)	OK
SAS Port 0 - 3	
SAS Port 4 - 7	
SAS Backplane	
SEAGATE ST9500620SS (0)	Operational
SEAGATE ST1200MM0018 (1)	Operational
SEAGATE ST1200MM0018 (2)	Operational
SEAGATE ST1200MM0018 (3)	Operational
LogicalDrive_0	Operational
Data-Raid5	Operational

'Data-Raid5' Details

Status	Operational
RAID Level	RAID-5
Logical Drive Number	1
O/S Device	Disk 1
Init State	Initialized
Logical Size	2.18 TB
Physical Size	3.27 TB
Access Mode	ReadWrite
Read Mode	ReadAhead
Write Mode	WriteThrough
Cache Mode	Direct
Disk Cache Mode	Enabled

11 items



Name	Status
✓ Windows Advanced Host Controller Interface (0)	OK
✓ FTS RAID Ctrl SAS 6G 1GB (D3116C) (1)	OK
SAS Port 0 - 3	
SAS Port 4 - 7	
SAS Backplane	
✓ SEAGATE ST9500620SS (0)	Operational
✓ SEAGATE ST1200MM0018 (1)	Operational
✓ SEAGATE ST1200MM0018 (2)	Operational
✓ SEAGATE ST1200MM0018 (3)	Operational
✓ LogicalDrive_0	Operational
✓ Data-Raid5	Operational

'Data-Raid5' Details



Status	✓ Operational
RAID Level	RAID-5
Logical Drive Number	1
O/S Device	Disk 1
Init State	Initialized
Logical Size	2.18 TB
Physical Size	3.27 TB
Access Mode	Read Write
Read Mode	ReadAhead
Write Mode	Write Through

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Tools

Search Tools

Overview

Certificates

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Events

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Firewall

Local Users & Groups

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PowerShell

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Registry

Remote Desktop

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Services

Squared Up

Storage

Storage Replica

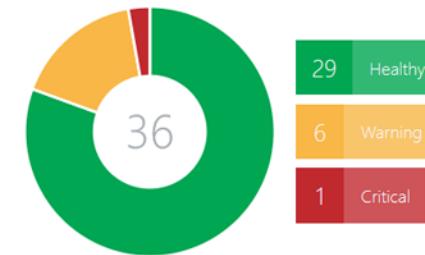
Updates

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maintenance mode task 12 hours

Windows Computer Overview

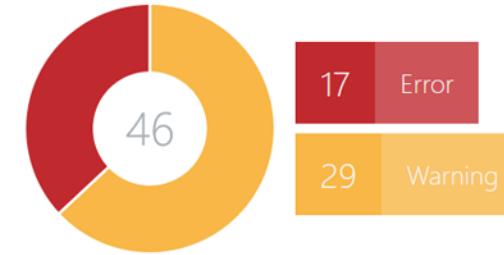
Windows computer health



Alert Resolution States



All Open Alerts



Top 5 Full Disks

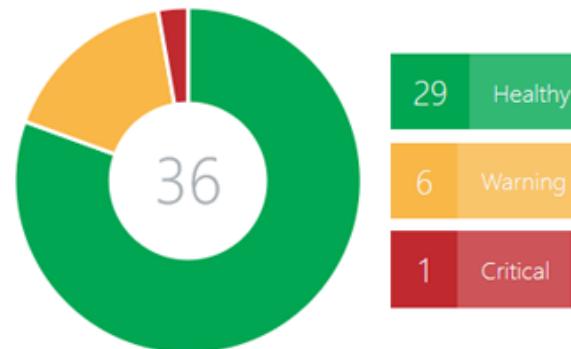
INT-USER-RB01.int.squaredup.com / D:	98.6
INT-USER-BC01.int.squaredup.com / D:	98.6
INT-USER-CA01.int.squaredup.com / D:	97.9
INT-USER-KR01.int.squaredup.com / D:	97.2
INT-USER-SL01.int.squaredup.com / D:	97.2

All New Error Alerts

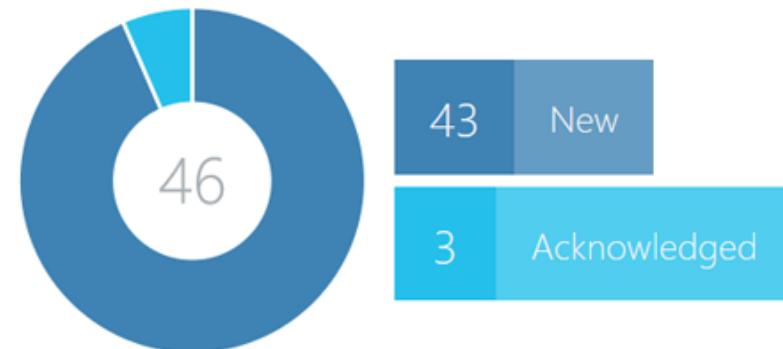
Partitioning and grooming has not completed rece...	All Management Servers Resource Pool DB Watcher	CUST-SCOM-MS02.int.squaredup.com	New	19 hours ago
MSSQL 2016: Monitoring failed	OPP-SQL03.sales.int.squaredup.com	OPP-SQL03.sales.int.squaredup.com	New	7 days ago
Invalid application path	WpSite2	INT-USER-WP01.int.squaredup.com	New	8 days ago
Invalid application path	WpSite1	INT-USER-WP01.int.squaredup.com	New	8 days ago
WMI is unhealthy	OPP-WS02.sales.int.squaredup.com	OPP-WS02.sales.int.squaredup.com	New	12 days ago
Availability test failed (Web)	Community	CUST-SCOM-MS01.int.squaredup.com	New	15 days ago
MSSQL 2016: Discover failed	OPP-SOL03.sales.int.squaredup.com	OPP-SOL03.sales.int.squaredup.com	New	16 days ago

Windows Computer Overview

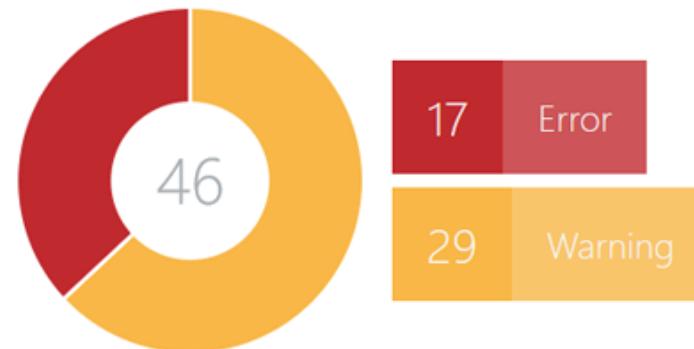
Windows computer health



Alert Resolution States



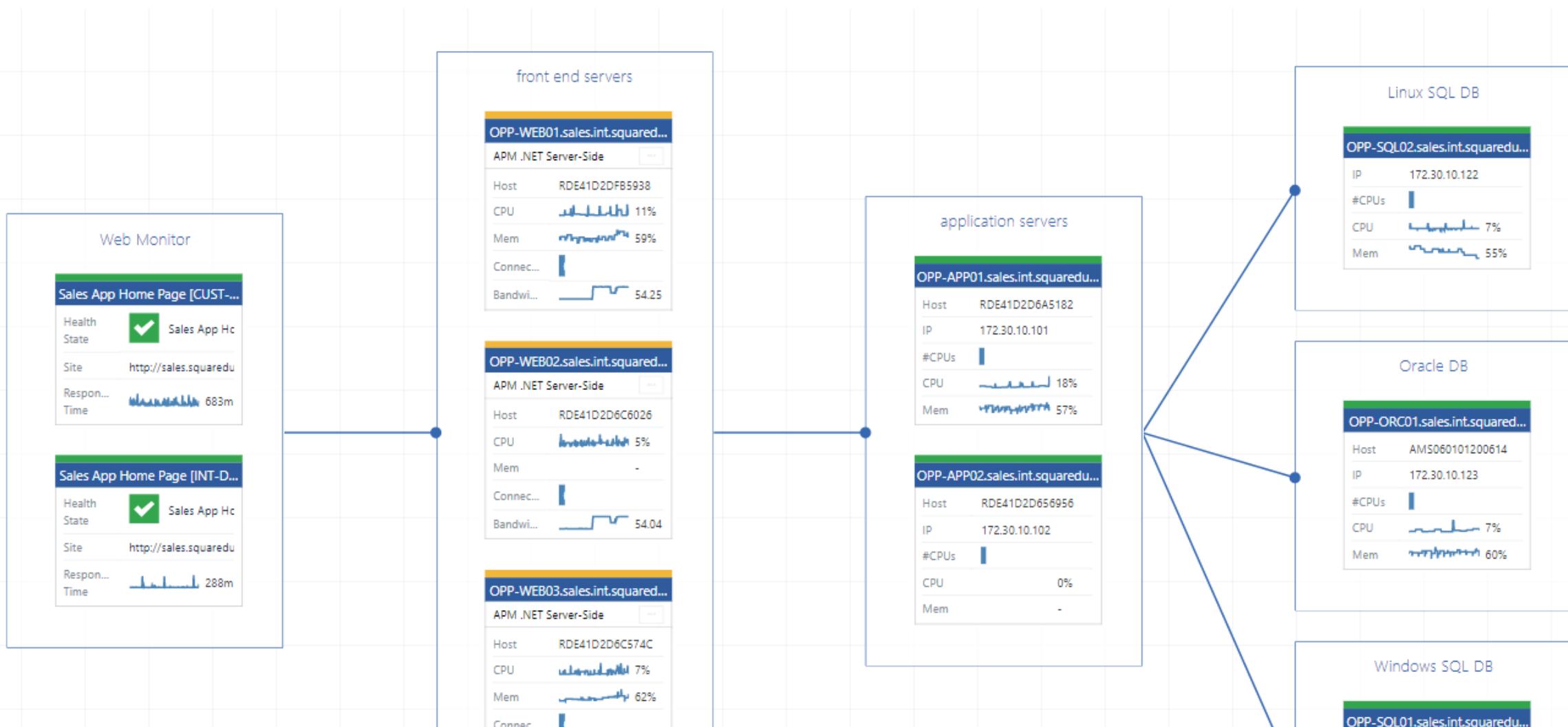
All Open Alerts



Top 5 Full Disks

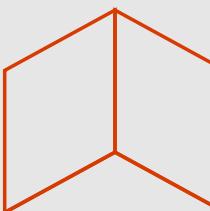
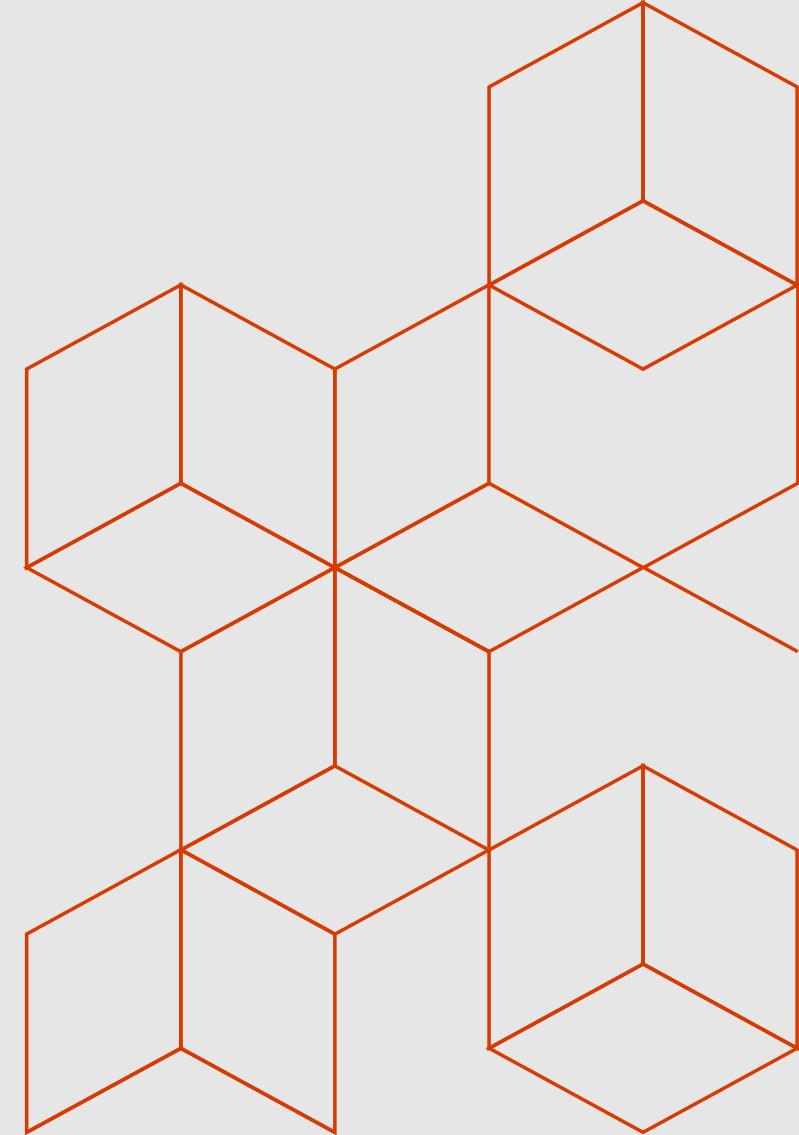
INT-USER-RB01.int.squaredup.com / D:	98.6
INT-USER-BC01.int.squaredup.com / D:	98.6
INT-USER-CA01.int.squaredup.com / D:	97.9
INT-USER-KR01.int.squaredup.com / D:	97.2
INT-USER-SL01.int.squaredup.com / D:	97.2

All New Error Alerts



Windows Admin Center SDK

Generally Available!



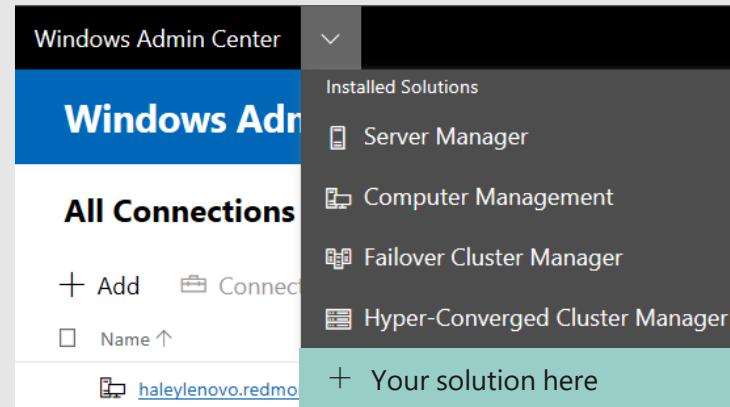
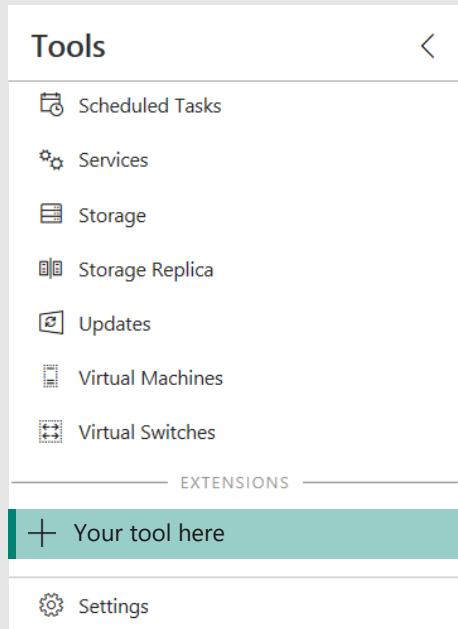
Develop with Windows Admin Center SDK

Integrate with Windows Admin Center tools

Leverage platform capabilities

Develop with latest web technologies

Extend product outreach



SDK Resources

Learn

The screenshot shows a Microsoft Edge browser window displaying the 'Extensions for Windows Admin Center' documentation. The URL is <https://docs.microsoft.com/en-us/windows-server/manage/windows-admin-center/extend/overview-of-extensions>. The page title is 'Extensions for Windows Admin Center'. It features a sidebar with sections like 'Understand', 'Plan', 'Deploy', 'Configure', 'Use', and 'Overview of extensions'. The main content area discusses the extensibility of Windows Admin Center, provides links to developer guides, and highlights the 'SampleHttpPlugin.cs' sample code.

Design

The screenshot shows a Microsoft Edge browser window displaying the Windows Admin Center interface. The URL is <https://docs.microsoft.com/en-us/windows-server/manage/windows-admin-center/>. The interface includes a navigation bar with tabs like File, Home, Insert, Draw, Design, Transitions, Animations, Slide Show, Review, View, Add-ins, Help, Storyboarding, and Search. The main content area is titled 'Overview' and displays system monitoring graphs for CPU, Memory, and Ethernet utilization.

<https://aka.ms/WindowsAdminCenter>

Develop

The screenshot shows a GitHub browser window displaying the 'windows-admin-center-sdk' repository. The URL is <https://github.com/Microsoft/windows-admin-center-sdk>. The repository page shows the 'Code' tab, which contains the 'SampleHttpPlugin.cs' file. The code implements an HTTP plugin for the Windows Admin Center.

```
// <copyright file="SampleHttpPlugin.cs" company="Microsoft">
// Copyright (c) Microsoft. All rights reserved.
// </copyright>
namespace Microsoft.ManagementExperience.Samples
{
    using System;
    using System.Net;
    using System.Net.Http;
    using System.Text;
    using System.Threading;
    using System.Threading.Tasks;
    using Microsoft.ManagementExperience.FeatureInterface;

    /// <summary>
    /// Represents a sample HTTP plug-in.
    /// </summary>
    [Serializable]
    public class SampleHttpPlugin : HttpPlugin
    {
        /// <summary>
        /// Initializes a new instance of the <see cref="SampleHttpPlugin"/> class.
        /// </summary>
        public SampleHttpPlugin()
            : base("Sample Uno")
        {
        }

        /// <summary>
        /// Processes the specified request.
        /// </summary>
        protected override void ProcessRequest(HttpContext context)
        {
            var response = context.Response;
            response.ContentType = "text/plain";
            response.StatusCode = 200;
            response.ContentLength = Encoding.UTF8.GetByteCount("Hello, Uno!");
            response.Body.Write(Encoding.UTF8.GetBytes("Hello, Uno!"), 0, response.ContentLength);
        }
    }
}
```

GitHub: <https://aka.ms/wacSDK>



Modern, Simple, Integrated

User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem



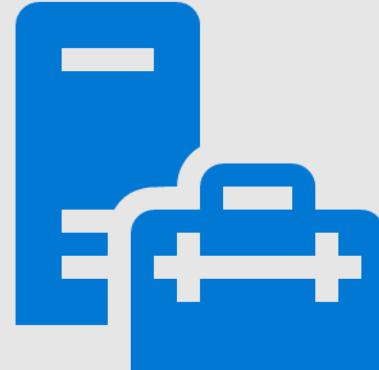
Secure, cloud-ready, extensible

Platform

Windows Admin Center

Experience the future of server management today

<https://aka.ms/WindowsAdminCenter>



Whats NEXT?

11:00AM

AZURE IAAS 11:10 AM - 11:25 AM

Morning Break

11:30AM

11:25 AM - 12:25 PM

All-in with Azure Monitoring

Kevin Greene

11:25 AM - 12:25 PM

How to build a multi-tenant SaaS application using 60.000 Azure SQL Databases

Henry Been

11:25 AM - 12:25 PM

Flying into the future with Windows AutoPilot

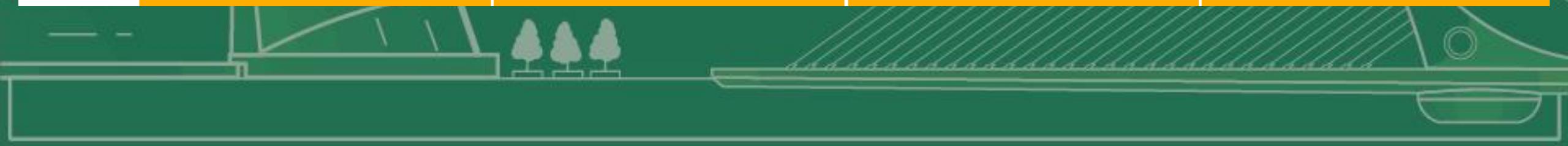
Peter Egerton

11:25 AM - 12:25 PM

Windows Server 2019 - The Next Generation of Software-Defined Datacenter

Thomas Maurer

12:00PM



Thank you

TIME FOR YOUR QUESTIONS