



Follow me to Honolulu - vNext Server Management

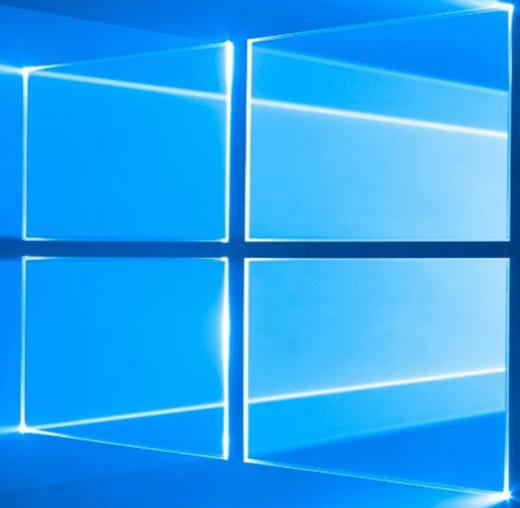
Eric Berg
Microsoft Azure and CDM MVP
[@ericberg_de](https://twitter.com/ericberg_de)



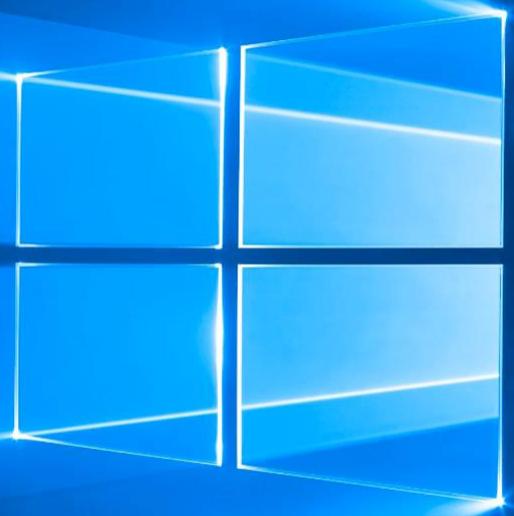
Eric Berg

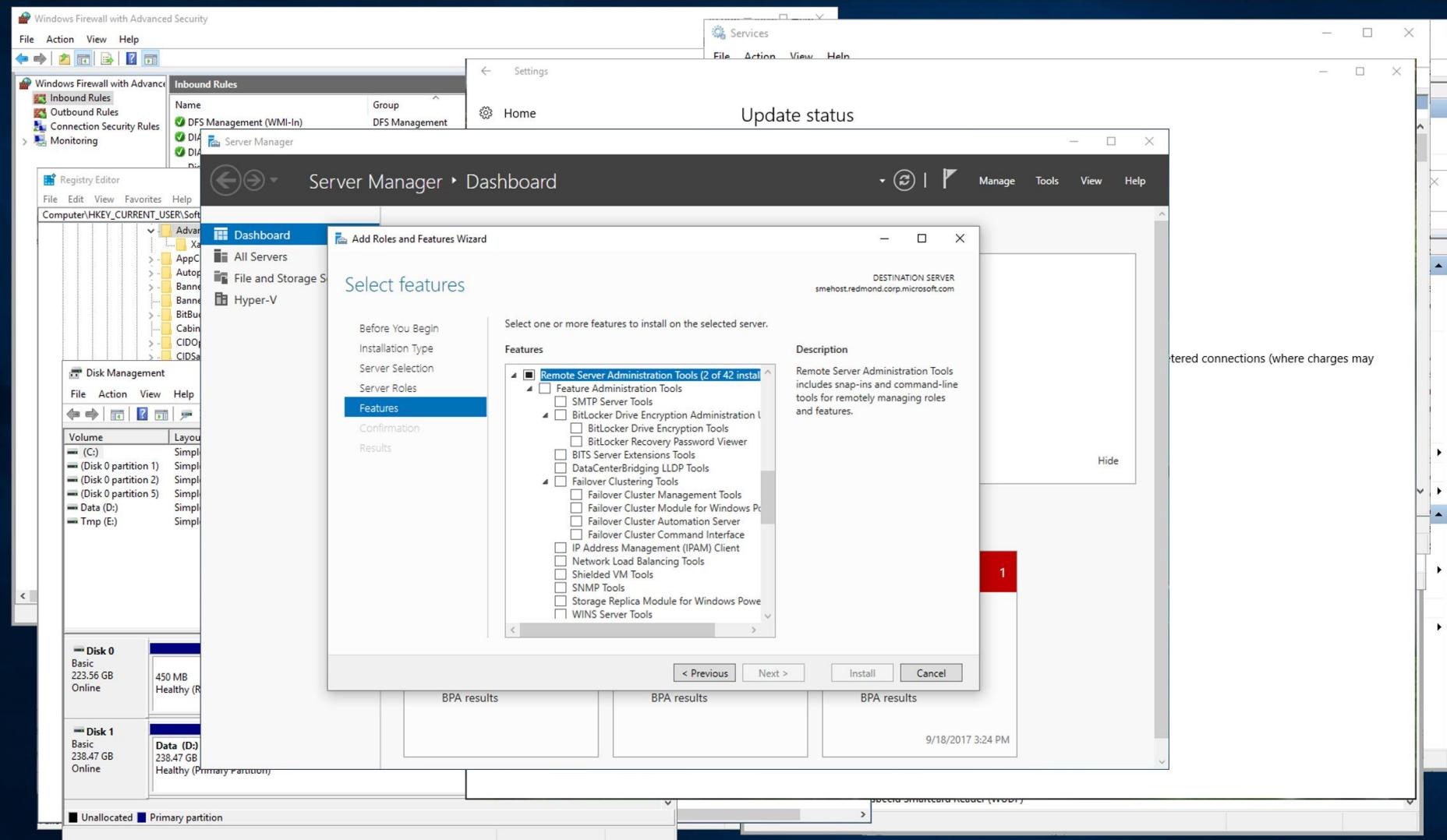
-  Lead IT-Architect @ COMPAREX – Team Azure
-  Azure, Datacenter and Modern Workplace
-  Azure, System Center, Windows Server and Client
-  info@ericberg.de
-  @ericberg_de | @GeekZeugs
-  www.ericberg.de | www.geekzeugs.de





Windows Server
2016, 2012 R2, 2012, 2008 R2





Windows Firewall with Advanced Security

File Action View Help

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

Registry Editor
File Edit View Favorites Help

Computer\HKEY_CURRENT_USER\Software
Advanced... X...
AppC...
AutoP...
Banne...
Banne...
BitBu...
Cabin...
CIDO...
CIDS...
Disk Management

File Action View Help

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

Disk 0
Basic
223.56 GB
Online
450 MB
Healthy (R)

Disk 1
Basic
238.47 GB
Online
Data (D): 238.47 GB
Healthy (Primary Partition)

Unallocated Primary partition

Services

File Action View Help

Settings

Home

Update status

Server Manager > Dashboard

Manage Tools View Help

Select features

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

DESTINATION SERVER
smehost.redmond.corp.microsoft.com

Description

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

1

< Previous Next > Install Cancel

BPA results

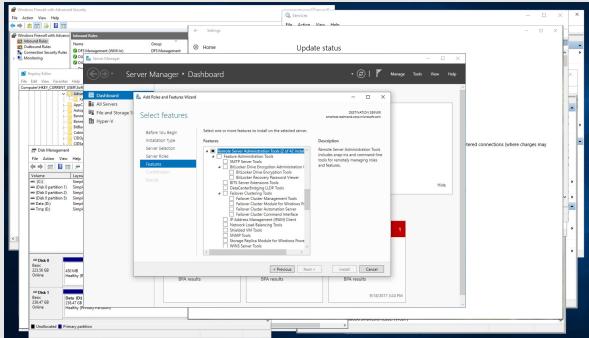
BPA results

BPA results

9/18/2017 3:24 PM

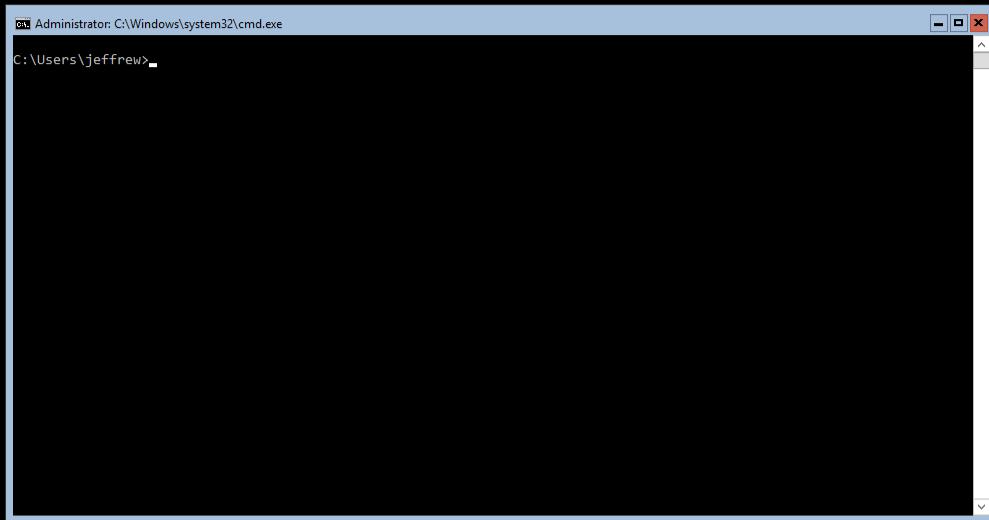
Smartcard Reader (WCF)

Management before Windows Admin Center



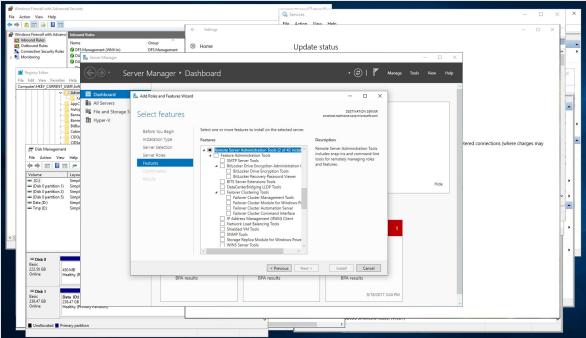
Windows Server

2016, 2012 R2, 2012, 2008 R2

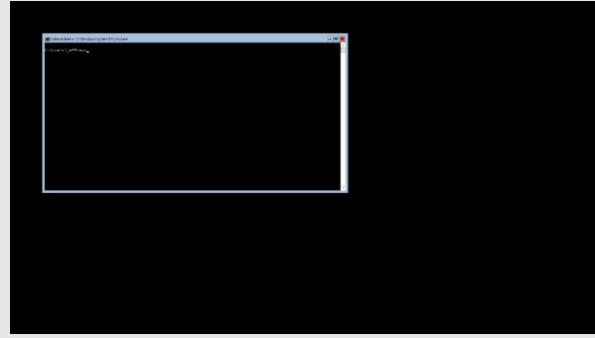


Windows Server Core
SAC, 2016, 2012 R2, 2012

Management before Windows Admin Center



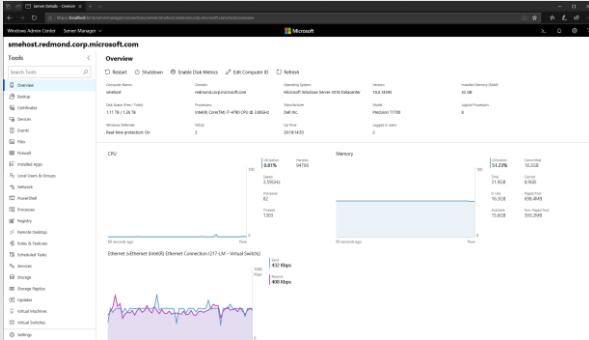
Windows Server
2016, 2012 R2, 2012, 2008 R2



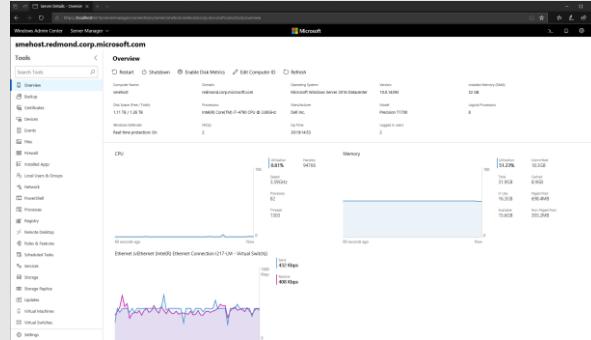
Windows Server Core
SAC, 2016, 2012 R2, 2012

Management with Windows Admin Center

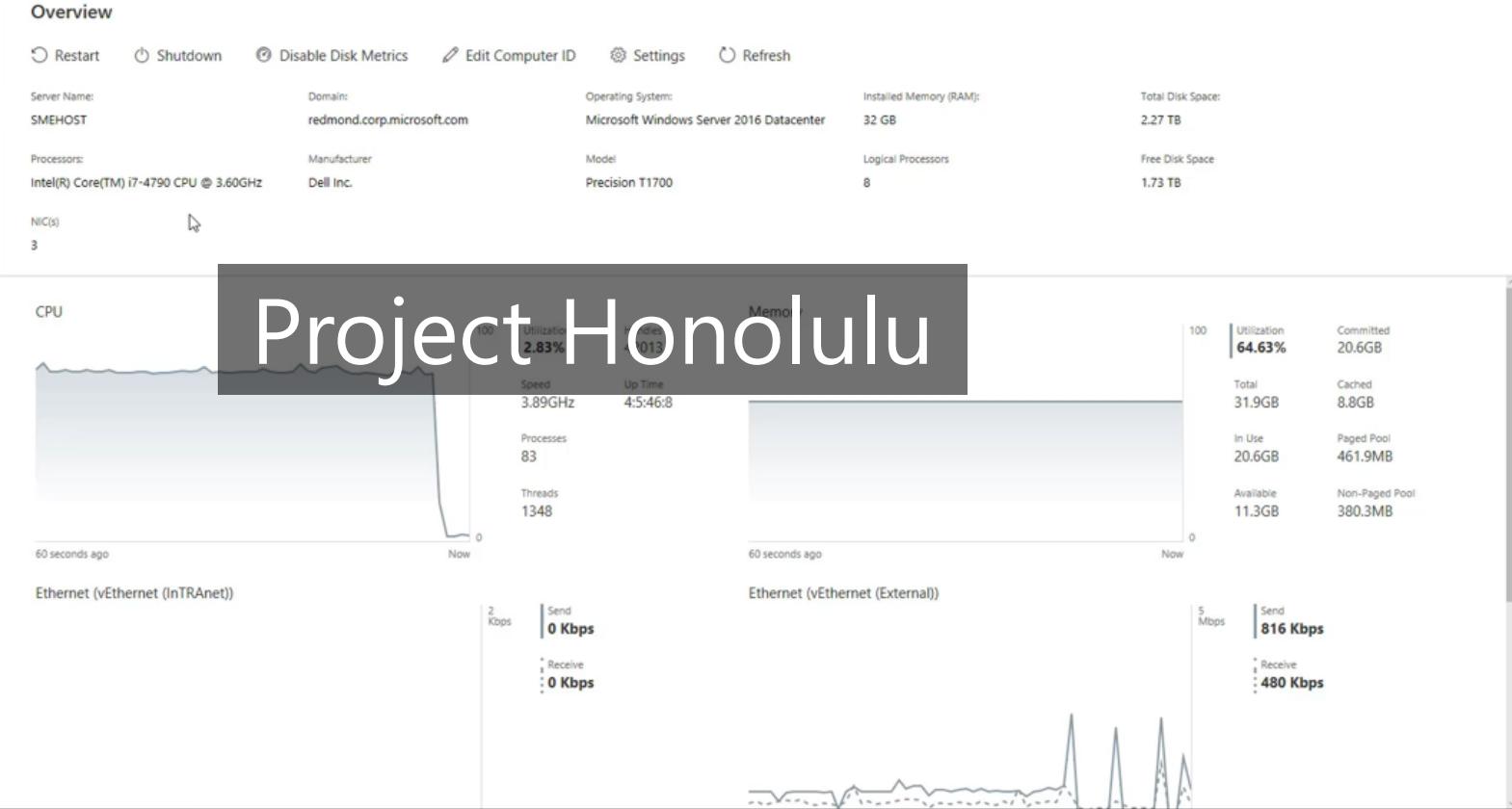
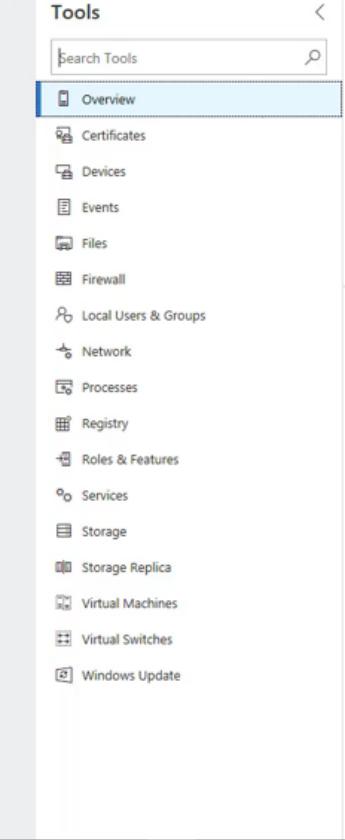
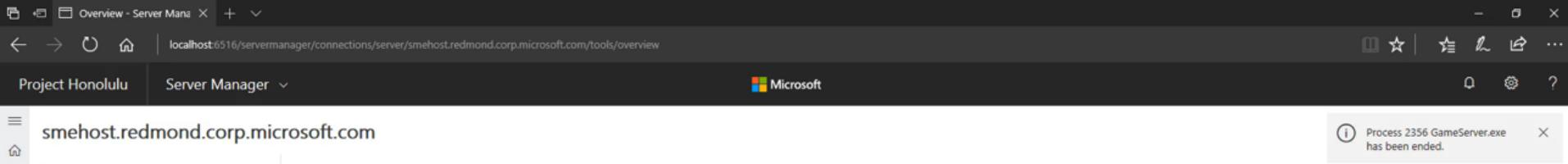
Modernized – Simplified - Integrated



Windows Server
2016, 2012 R2, 2012, 2008 R2



Windows Server Core
SAC, 2016, 2012 R2, 2012



smehost.redmond.corp.microsoft.com

Tools

Overview

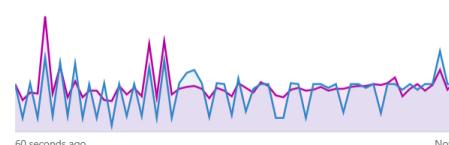
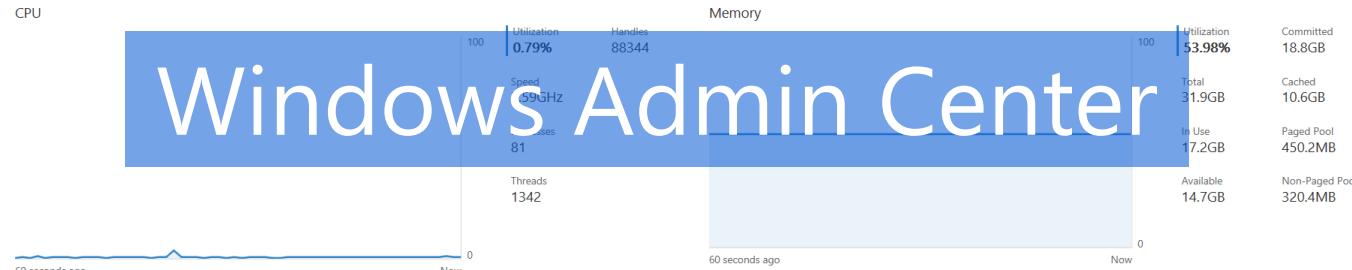
 Restart Shutdown Enable Disk Metrics Edit Computer ID Refresh

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

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

Windows Defender NIC(s): Azure Backup Status Up Time: 23:19:43:14 Logged in users: 2

Real-time protection: On 2 Not Protected





Modern, Simple, Integrated
User Experience



Core tools



HCI Management



Security



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Tools

Search Tools

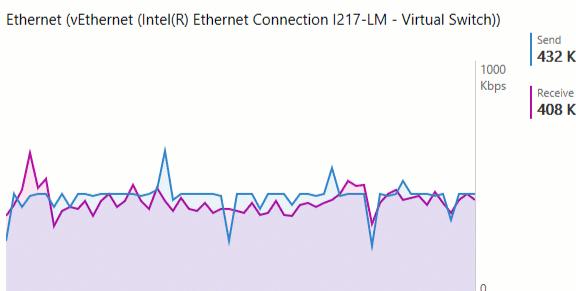
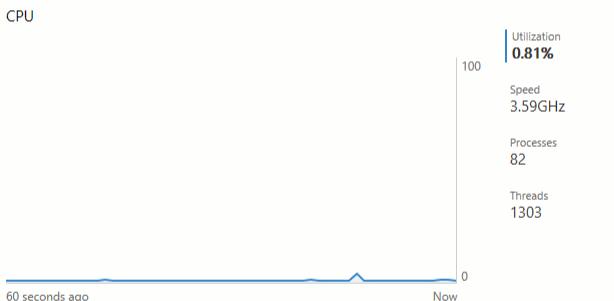
Overview

 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 Process
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
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)

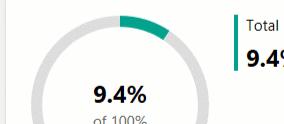
Running 2 Off 5

Volumes (Total 2)

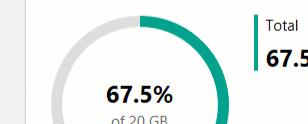
All volumes healthy

Resource consumption

CPU usage



Memory usage



Storage usage



Performance

sme-server8.redmond.corp.microsoft.com

Tools

Roles and Features

Install Remove

Install Roles and Features submitted

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

265 items 1 selected

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.microsoft... 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
Available	Role



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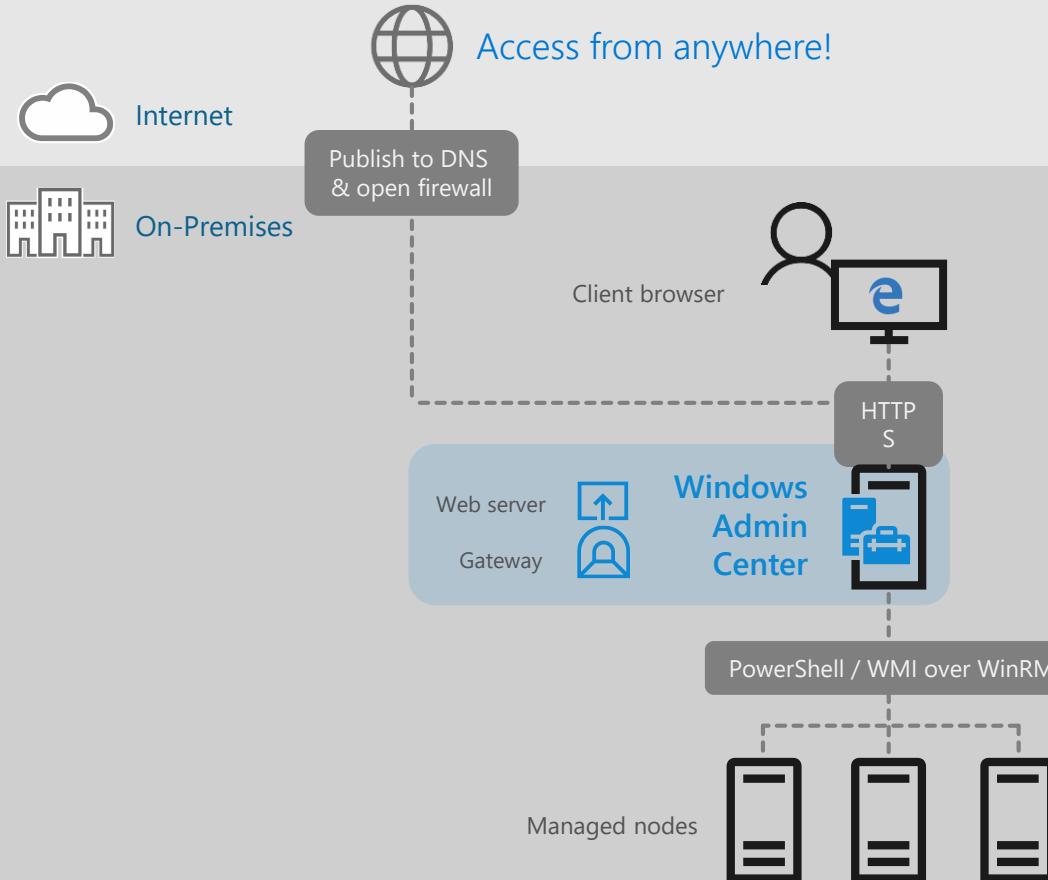


Partner Ecosystem



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Lightweight & fast deployment



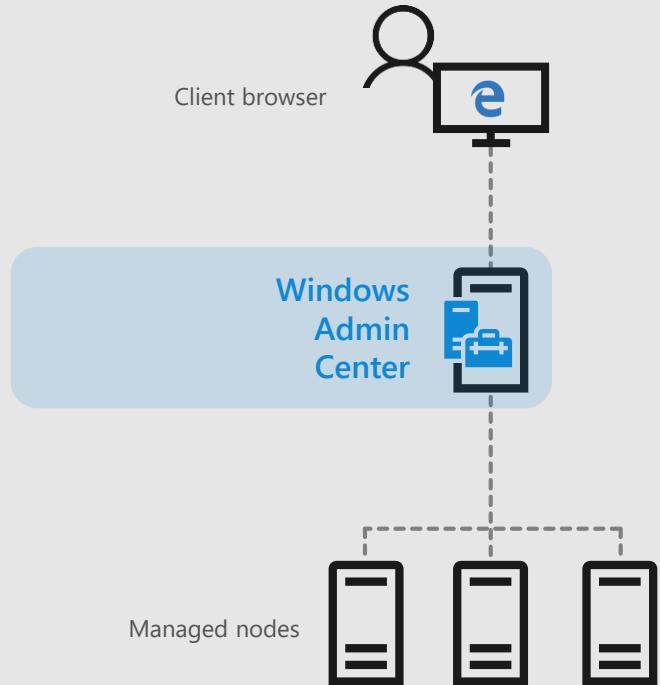
Internet connection not required

Connect from a modern browser

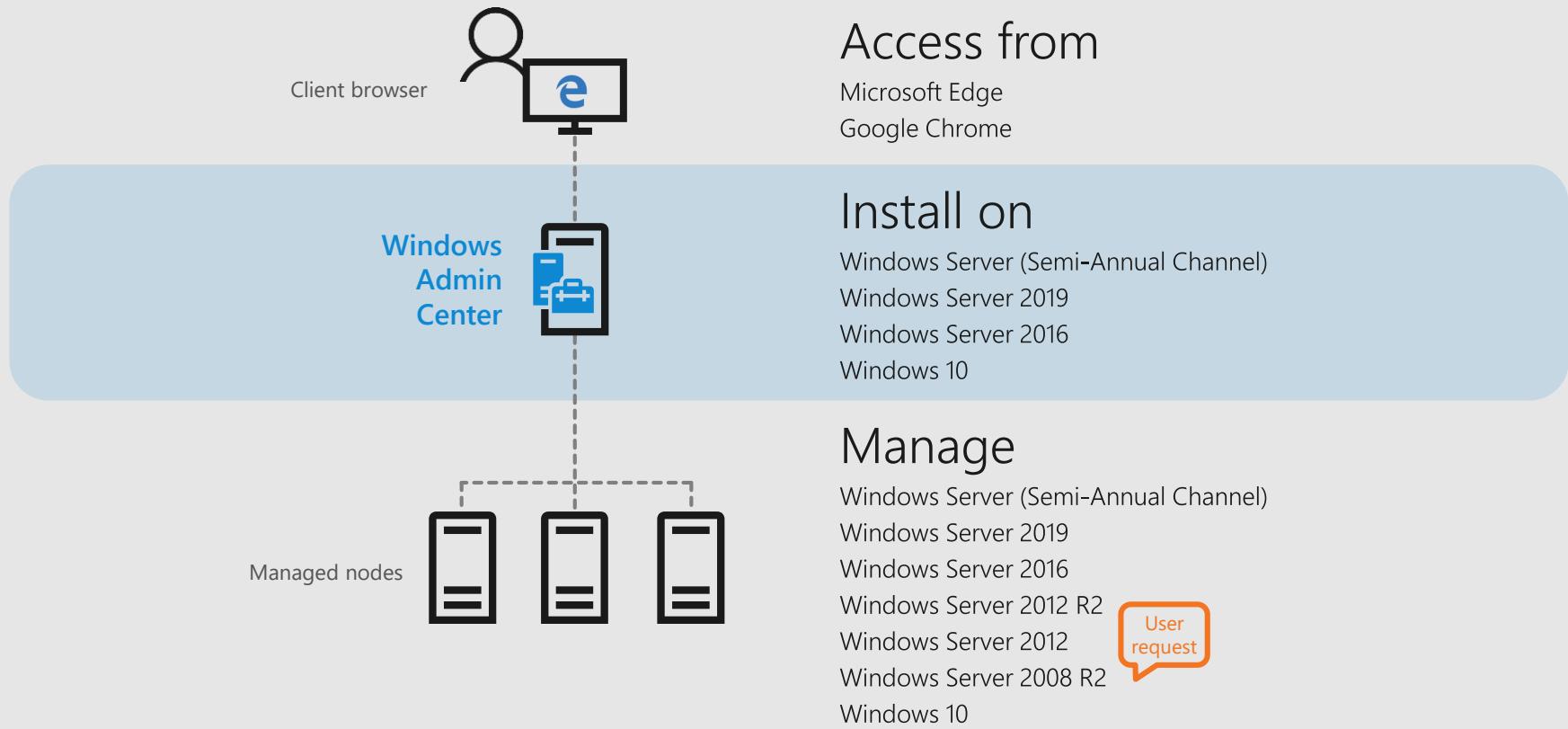
~60 MB installer, install in minutes

No agent installation required

Lightweight & fast deployment



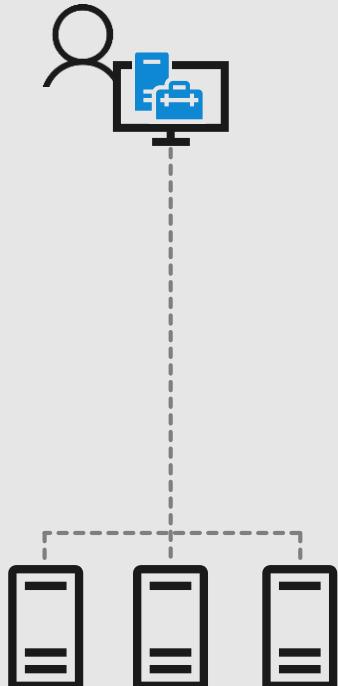
Flexible deployment options



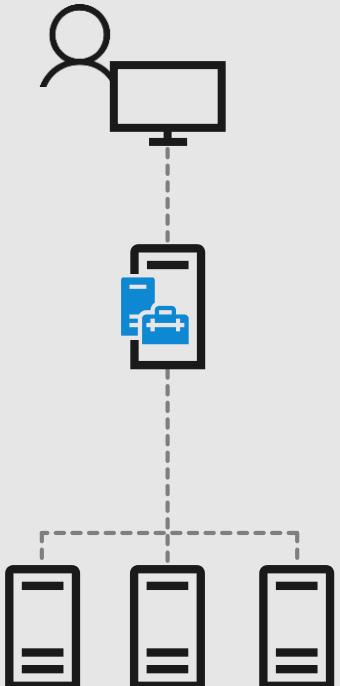
Flexible deployment options



Flexible deployment options



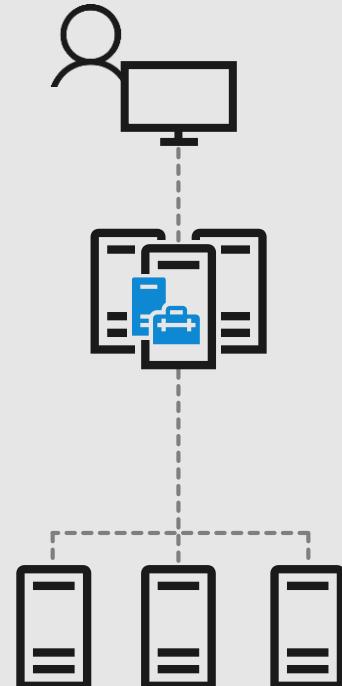
Windows 10 desktop



Dedicated gateway server

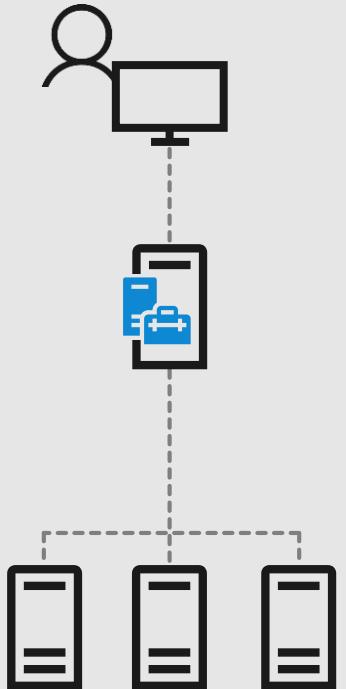


Managed node

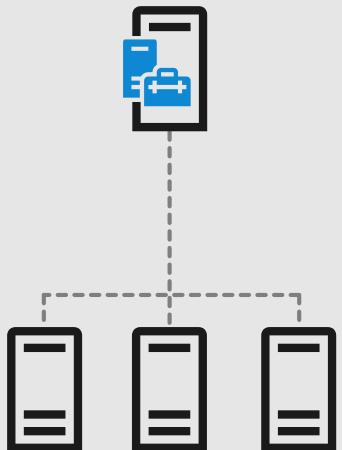


High availability

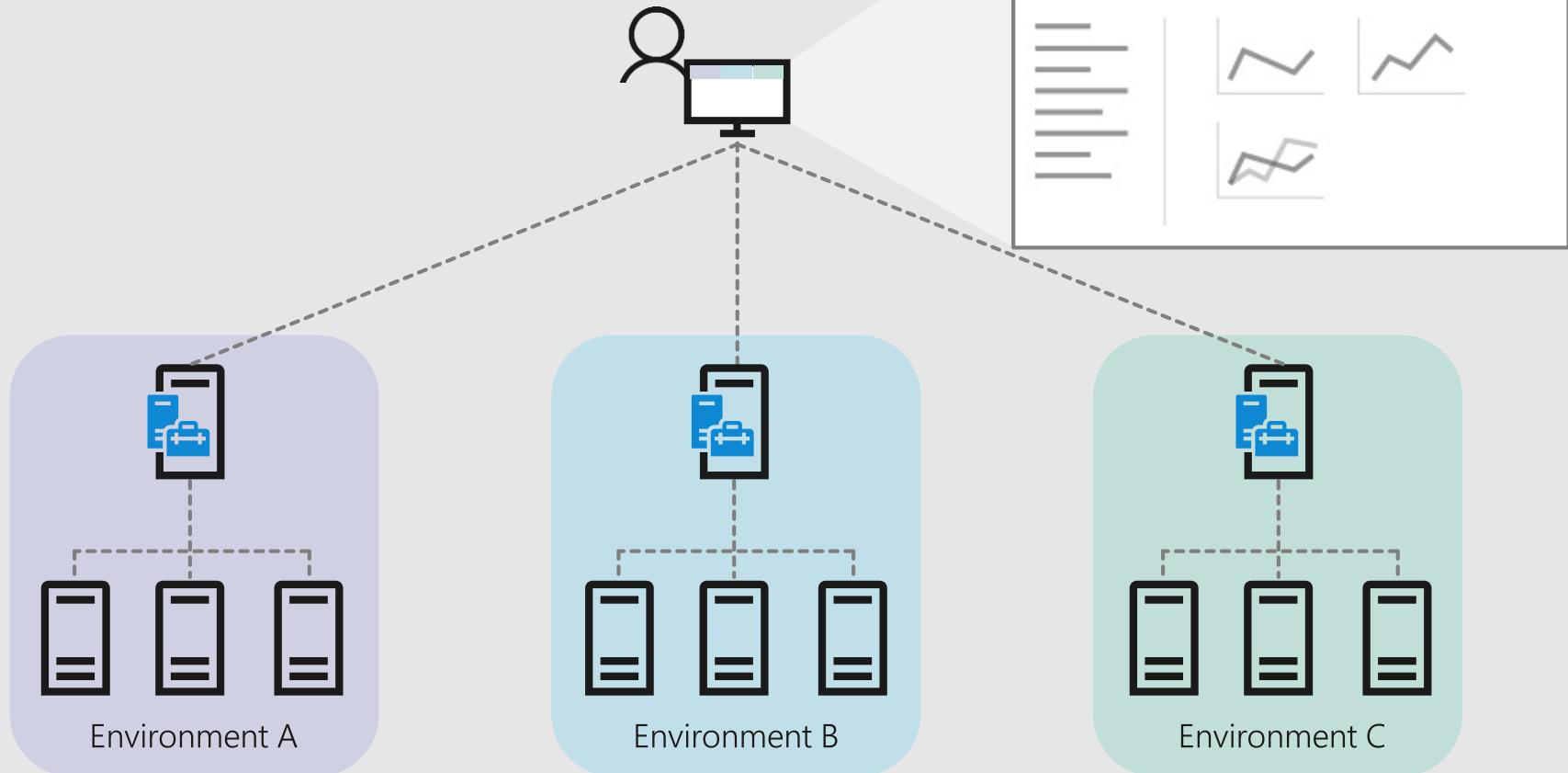
Flexible deployment options



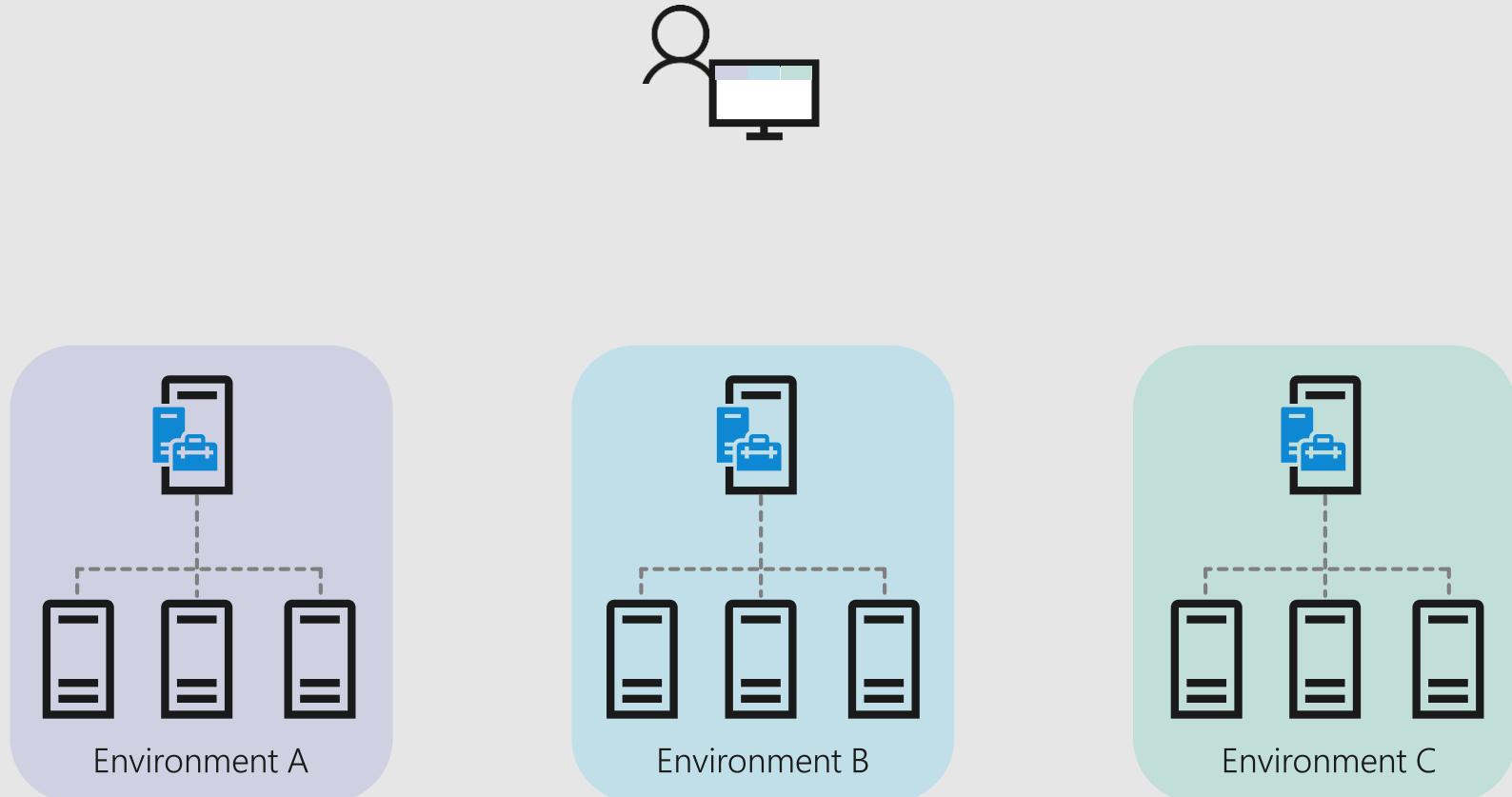
Flexible deployment options



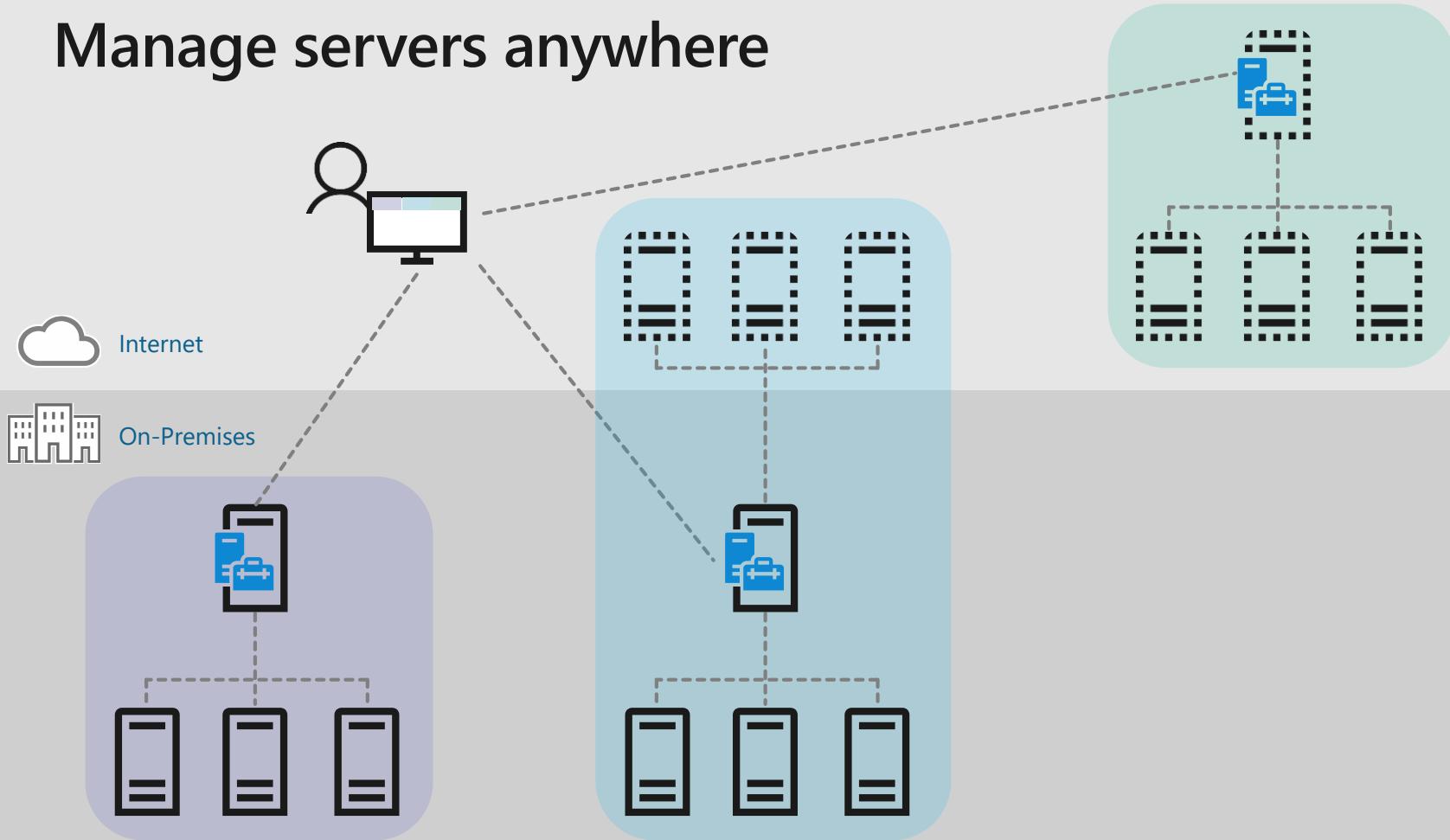
Manage multiple environments



Manage multiple environments



Manage servers anywhere





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HCI Management



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Tools



Installed Apps

PREVIEW ⓘ



Remove



Name

Publisher

Installed On

Size

5 items



Search



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

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

Installed Apps

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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



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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Task Scheduler Library

CSEO

Microsoft

Configuration Manager

Windows

.NET Framework

Active Directory Rights Manage...

ApplID

Application Experience

ApplicationData

AppxDeploymentClient

Autodesk

Bluetooth

> CertificateServicesClient

Chkdsk

Clip

CloudExperienceHost

Customer Experience Improvem...

Data Integrity Scan

Defrag

Device Information

Device Setup

Diagnosis

DiskCleanup

DiskDiagnostic

DiskFootprint

EDP

ErrorDetails

LanguageComponentsInstaller

License Manager

Location

Maintenance

\Microsoft\Windows\ApplicationData

Create Enable Disable Start Stop Delete Settings

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

General

General

Triggers

Task name

Actions

CleanupTemporaryState

Conditions

Task Path

Settings

Author

Microsoft Corporation

Description

Cleans up each package's unused temporary files.

Search Tools



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Tools



Scheduled Task CleanupTemporaryState

General

Triggers

+ Add

Edit

Delete

0 items

Actions

Trigger

Details

Status

Conditions

No records found

Settings

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Tools



Scheduled Task CleanupTemporaryState

General Triggers

Triggers

[+ Add](#)

Actions

Trigger

Details

Conditions

No records found

Settings

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

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

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Tools



Scheduled Task CleanupTemporaryState

General **Actions**

Triggers

[+ Add](#)

1 item

Actions

[Action](#)

Details

Working Directory

Conditions

Start a program

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

Settings

[Close](#) Search Tools

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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

Close

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Tools <

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COMPUTE

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Virtual Switches

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STORAGE

Volumes

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Virtual machines

Summary Inventory

+ New



Delete



Start



Turn off



Shut down



Save

More

18 items



Search...



<input type="checkbox"/>	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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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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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 %

me...	Uptime	Heartbeat	Disaster...
0:00:00:00			Not protected
0:11:23:38	No contact		Not protected
0:11:23:31	No contact		Not protected
0:11:23:31	No contact		Not protected
0:23:25:53	No contact		Not protected
0:11:23:33	No contact		Not protected
0:23:16:35	No contact		Not protected
-			Not protected
0:11:23:54			Not protected
-			Not protected
0:11:23:37	No contact		Not protected
0:11:23:42	No contact		Not protected
0:11:23:32	No contact		Not protected
0:11:23:33	No contact		Not protected
0:11:23:30	No contact		Not protected
0:11:23:30	No contact		Not protected
0:11:24:16	No contact		Not protected

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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: 373 MB;">373 MB</div>	512 MB	0:00:19:35	No contact	Not protected
SEA-SEARCH-2	Running	K47N2	20 %	<div style="width: 20%;">20 %</div>	<div style="width: 399 MB;">399 MB</div>	512 MB	2:14:04:57	No contact	Not protected
SEA-SEARCH-3	Running	K47N1	3 %	<div style="width: 3%;">3 %</div>	<div style="width: 530 MB;">85 %</div>	624 MB	2:02:40:58	No contact	-
SEA-SEARCH-4	Running	K47N1	5 %	<div style="width: 5%;">5 %</div>	<div style="width: 399 MB;">78 %</div>	512 MB	0:00:10:27	No contact	-
SEA-SQL-1	Running	K47N2	0 %	<div style="width: 0%;">0 %</div>	<div style="width: 373 MB;">73 %</div>	512 MB	2:14:13:10	No contact	Not protected
SEA-SQL-2	Running	K47N2	0 %	<div style="width: 0%;">0 %</div>	<div style="width: 373 MB;">73 %</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: 18%;">18 %</div>	<div style="width: 747 MB;">146 %</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: 0%;">0 %</div>	<div style="width: 373 MB;">73 %</div>	512 MB	0:00:19:36	No contact	Not protected
SEA-WEB-1	Running	K47N2	0 %	<div style="width: 0%;">0 %</div>	<div style="width: 373 MB;">73 %</div>	512 MB	2:14:18:05	No contact	Not protected
SEA-WEB-2	Running	K47N2	0 %	<div style="width: 0%;">0 %</div>	<div style="width: 368 MB;">72 %</div>	512 MB	2:14:16:29	No contact	Not protected
SEA-WEB-3	Running	K47N2	0 %	<div style="width: 0%;">0 %</div>	<div style="width: 368 MB;">72 %</div>	512 MB	2:14:14:46	No contact	Not protected
SEA-WEB-4	Running	K47N1	20 %	<div style="width: 20%;">20 %</div>	<div style="width: 564 MB;">82 %</div>	688 MB	2:02:51:03	No contact	-
SEA-WEB-5	Running	K47N2	0 %	<div style="width: 0%;">0 %</div>	<div style="width: 368 MB;">72 %</div>	512 MB	2:00:11:54	No contact	Not protected
SEA-WEB-6	Running	K47N2	0 %	<div style="width: 0%;">0 %</div>	<div style="width: 373 MB;">73 %</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

Program Files

Program Files (x86)

ProgramData

Recovery

System Volume Information

tt4

Users

Windows

C:\ \ Documents and Settings \ harowl

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

Share

Properties

31 items



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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
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>	System Volume Information
>	tt4
>	Users
>	Windows

C:\ \ Documents and Settings \ harowl

New Folder Rename Upload Download Extract Delete More

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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Tools



Storage

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

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

1 item

Name

Health

Status

File sharing protocol

Encrypted

mvp

Healthy

OK

SMB

No

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Storage

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

Browse

Share name

Group or user name:

Add

Name	Permission	
redmond\smexp	Read Read/Write Deny	

Submit

Cancel

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 Disconnect  

Recycle Bin

 Untitled - Notepad

File Edit Format View Help

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

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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 : True
OsRegisteredUser : Server
:
OsSerialNumber : 00376-40000-00000-AA947
OsServicePackMajorVersion : 0
OsServicePackMinorVersion : 0
OsStatus : OK
OsSuites : {TerminalServices, DatacenterEdition, TerminalServicesSingleSession}
OsServerLevel : FullServer
KeyboardLayout : en-US
TimeZone : (UTC-08:00) Pacific Time (US & Canada)
LogonServer : \\\CO1-RED-DC-01
PowerPlatformRole : Desktop
HyperVIsorPresent : True
HyperVRequirementDataExecutionPreventionAvailable :
HyperVRequirementSecondLevelAddressTranslation :
HyperVRequirementVirtualizationFirmwareEnabled :
HyperVRequirementVMonitorModeExtensions :
DeviceGuardSmartStatus : Off
DeviceGuardRequiredSecurityProperties : {BaseVirtualizationSupport, SecureBoot}
DeviceGuardAvailableSecurityProperties : {BaseVirtualizationSupport, 5}
DeviceGuardSecurityServicesConfigured : {CredentialGuard}
DeviceGuardSecurityServicesRunning : {}
DeviceGuardCodeIntegrityPolicyEnforcementStatus :
DeviceGuardUserModeCodeIntegrityPolicyEnforcementStatus :
```

Manage new Windows Server platform features exclusively with Windows Admin Center

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 Storage Replica

 System Insights

sms2019-01.corp.contoso.com

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Storage Migration Service **Overview****Inventory**

Running 0 Paused 0 Completed 3

TOTAL INVENTORIED SIZE TOTAL INVENTORIED FILES

12.6 GB 8.18 K

Transfer

Running 1 Paused 0 Completed 0

TOTAL PROCESSED SIZE TOTAL PROCESSED FILES

9.85 GB 1.54 K

Cutover

Running 0 Paused 0 Completed 0

Running jobs**Orlando** Transfer

fs01.corp.contoso.com 99%



+ 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

sms2019-01.corp.contoso.com

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2 Transfer data

3 Cut over to the new servers

Events

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	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	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	Succeeded
IT	E:\IT	SMB	1.08 MB	1	0	1	0	Succeeded
old	C:\old	SMB	928 MB	188	0	2	0	Succeeded
public	D:\public	SMB	206 MB	40	0	2	0	Succeeded
Sales	D:\Sales	SMB	578 MB	79	0	2	0	Succeeded

Save and exit

Back

Next



Type here to search



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Partnerships - Storage F X +

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

/tools/storagereplica/partnerships

Microsoft

Windows Admin Center Server Manager

tk5-3wp16r1414

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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
OK	TK5-3WP16R1414	SQLInstance1	E:\, F:\	Synchronous	TK5-3WP16R1415	SQLR.Instance1	E:\, F:\
Warning	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:
H:\	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:
H:\	8 GB
Write Consistency:	RPO (seconds):
Disabled	60
Encrypted:	Number of replicas:
Disabled	1
Replication mode:	Replication status:
Asynchronous	Initial block copy

Replica performance de X +

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

/tools/storagereplica/replicadetail/10ae9802-d35b-4661-95ab-379d6eaf16cb%252313d4f099-9709-4eea-ab12-c960e9cb3053

Microsoft

Windows Admin Center Server Manager

tk5-3wp16r1414

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Partnerships > TK5-3WP16R1414 - SQL.Instance1 (source)

Data volume F:\ statistics

Average I/O latency **20.00 ms**

60 seconds ago Now

Average write I/O size **575 KB**

60 seconds ago Now

Write throughput **19.1 MB/s**

60 seconds ago Now

Log volume G:\ statistics

Average log write latency **998651.37 s**

60 seconds ago Now

Average log record size **0 B**

60 seconds ago Now

Log write throughput **18.1 MB/s**

60 seconds ago Now

Network statistics

Average network send latency **30.00 ms**

60 seconds ago Now

Average sent message size **952 KB**

60 seconds ago Now

Sent throughput **19.1 MB/s**

60 seconds ago Now

Manage new Windows Server platform features exclusively with Windows Admin Center

 Storage Migration Service

 Storage Replica

 System Insights

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Tools

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System Insights

PREVIEW ⓘ

invoke Settings Enable Disable

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



system-insights-log-analytic | Capability - System Ins... +

Windows Admin Center Server Manager Microsoft

gw-vm01.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 Migration Service Storage Replica System Insights Settings

System Insights > Volume consumption forecasting overview

Invoke Settings Disable

Overview

Status Forecast Last run Schedule

Warning (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 ↑
Warning	(E) is forecasted to exceed available capacity in the next 30 days.	9/7/2018 11:03:04 AM
Warning	(E) is forecasted to exceed available capacity in the next 30 days.	9/7/2018 8:47:07 AM
Ok	Volume usage is forecasted to remain within the available capacity.	9/7/2018 3:00:01 AM

Windows Admin Center Server Manager Microsoft

Troubleshooting, configuration, and maintenance

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Hyper-converged clusters

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- Drives
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- 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

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



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
myNanovserver	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/nanoperf	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoperf	microsoft/nanoperf	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.44MiB	0B
myWAC	wacilatest	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

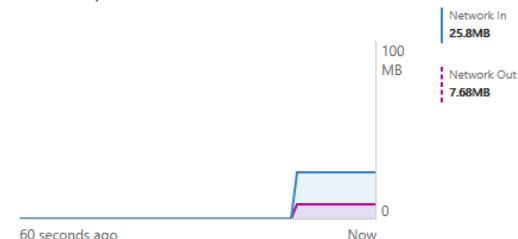
CPU



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
myNanovserver	microsoft/nanoserver	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.38MiB	0B
myWAC	wacilatest	Up 9 days	0.0.0.6516->443/tcp	[powershell -command c...	ff1ff55c32cc9c61ab9e0265...	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	wacilatest	[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/nanoperf	Created		[c:\windows\system32\c...	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoperf	microsoft/nanoperf	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.33MiB	0B
myWAC	wacilatest	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 [2][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	wacilatest	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/nanoperf	Created		[c:\windows\system32\cmd...]	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoperf	microsoft/nanoperf	Up 9 days		[c:\windows\system32\cmd...]	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.46MiB	0B
myWAC	wacilatest	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

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/nanoperf	Created		[c:\windows\system32\cmd.exe /s /q /t:0 /k powershell -command i...]	ce0ce132c4f0090c62cc16...	2018-08-30 22:09:28 -07...	0.00%	0B	0B
myNanoserver	microsoft/nanoperf	Up 9 days		[c:\windows\system32\cmd.exe /s /q /t:0 /k powershell -command i...]	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.46MiB	0B
myWAC	wacitest	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

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Microsoft

> Client

> OneCore

> Pef

Windows

> ActionQueue

> ADSI

Clear Export

3231 items



Search



Level	Date and Time	Source	Event ID
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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

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
myNanoper	microsoft/nanoper	Up 9 days		[c:\windows\system32\c...	f5b79da9552aa61de124a...	2018-08-30 12:49:33 -07...	0.00%	43.46MiB	0B
myWAC	waclatest	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

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Client

OneCore

Pef

Windows

ActionQueue

ADSI

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3231 items



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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](#)

Delete

5 items

Repository	Tag	Image ID	Created At	Size
wac	latest	sha256:f861913d5ebcd5cb43030af1f83f49c76d4cdf368...	2018-08-22 14:07:36 -0700 PDT	11.2GB
msftsm.azurecr.io/wac	latest	sha256:f861913d5ebcd5cb43030af1f83f49c76d4cdf368...	2018-08-22 14:07:36 -0700 PDT	11.2GB
hello-world	latest	sha256:b98162eca839f07edc6ce3f2af7a935b8f9a1d6f...	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	sha256:9dbf7f74034478cf5b2692a0d40a1bb28e180b9...	2018-06-12 17:56:12 -0700 PDT	10.7GB

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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/nanoperf	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



Secure, cloud-ready, extensible
Platform

sme-cluster4.redmond.corp.microsoft.com

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[Virtual Machines](#)[Virtual Switches](#)[Servers](#)

STORAGE

[Volumes](#)[Drives](#)

NETWORKING

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

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[Updates](#)

Dashboard

Health

Alerts (Total 4)

CLUSTER SME-CLUSTER4 3 days ago
Windows Server is consuming more than 50.00000 % 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)

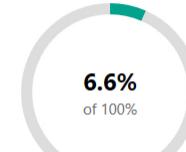
Running 2 Off 5

Volumes (Total 2)

All volumes healthy

Resource consumption

CPU usage

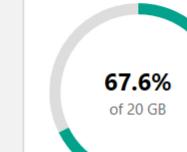


(i)

Total

6.6%

Memory usage



Storage usage



(i)

Performance

sme-cluster4.redmond.corp.microsoft.com

Tools

Dashboard

COMPUTE

Virtual Machines

Virtual Switches

Servers

STORAGE

Volumes

Drives

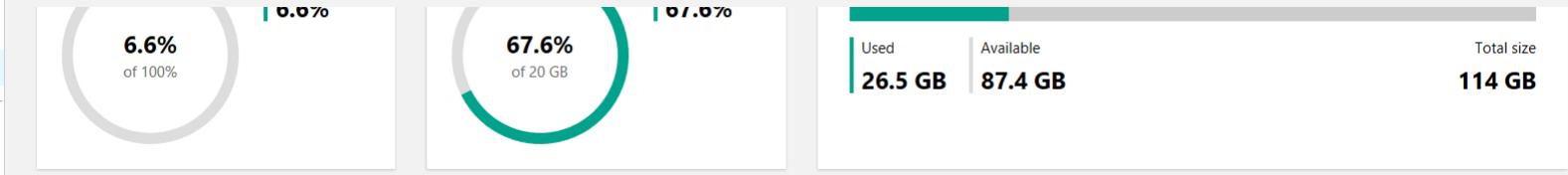
NETWORKING

Virtual Networks

SDN Monitoring

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Performance

Cluster performance

[Hour](#) [Day](#) [Week](#) [Month](#) [Year](#)

IOPS

343

0

Latency

7.1 µs

0

1 hour ago Now

1 hour ago Now



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

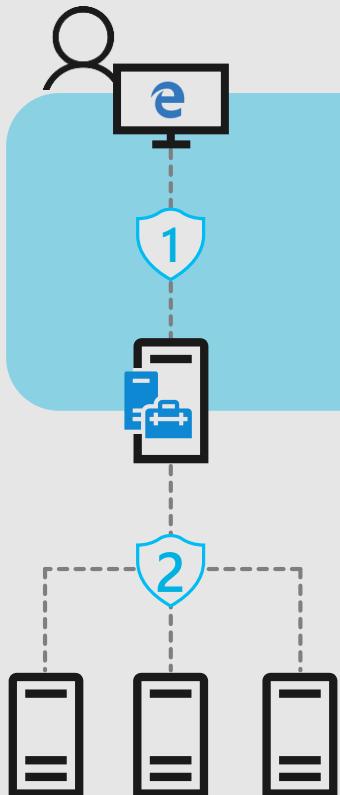


Partner Ecosystem



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

Gateway access

USER



Account

Language / Region

Suggestions

Advanced

GATEWAY

Extensions

Azure

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	Security group

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 Admin Center

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

Windows Admin Center > Settings

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

Name	Role	Type
BUILTIN\Administrators	Gateway administrators	SecurityGroup

1 item Search

USER

- Account
- Language / Region
- Suggestions
- Advanced

GATEWAY

- Extensions
- Azure
 - Access
 - Access (selected)

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

Settings - Windows Admin Center < Waiting for response from ... +

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

Windows Admin Center Settings Microsoft

Windows Admin Center > Settings

USER **Gateway access**

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

Language / Region Suggestions Advanced

GATEWAY Extensions Azure

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-d28dc9f011

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 assigned

Enter role name to filter items...

Gateway Administrator

Gateway User

Selected Role 🔒

You haven't selected any role.

Assign





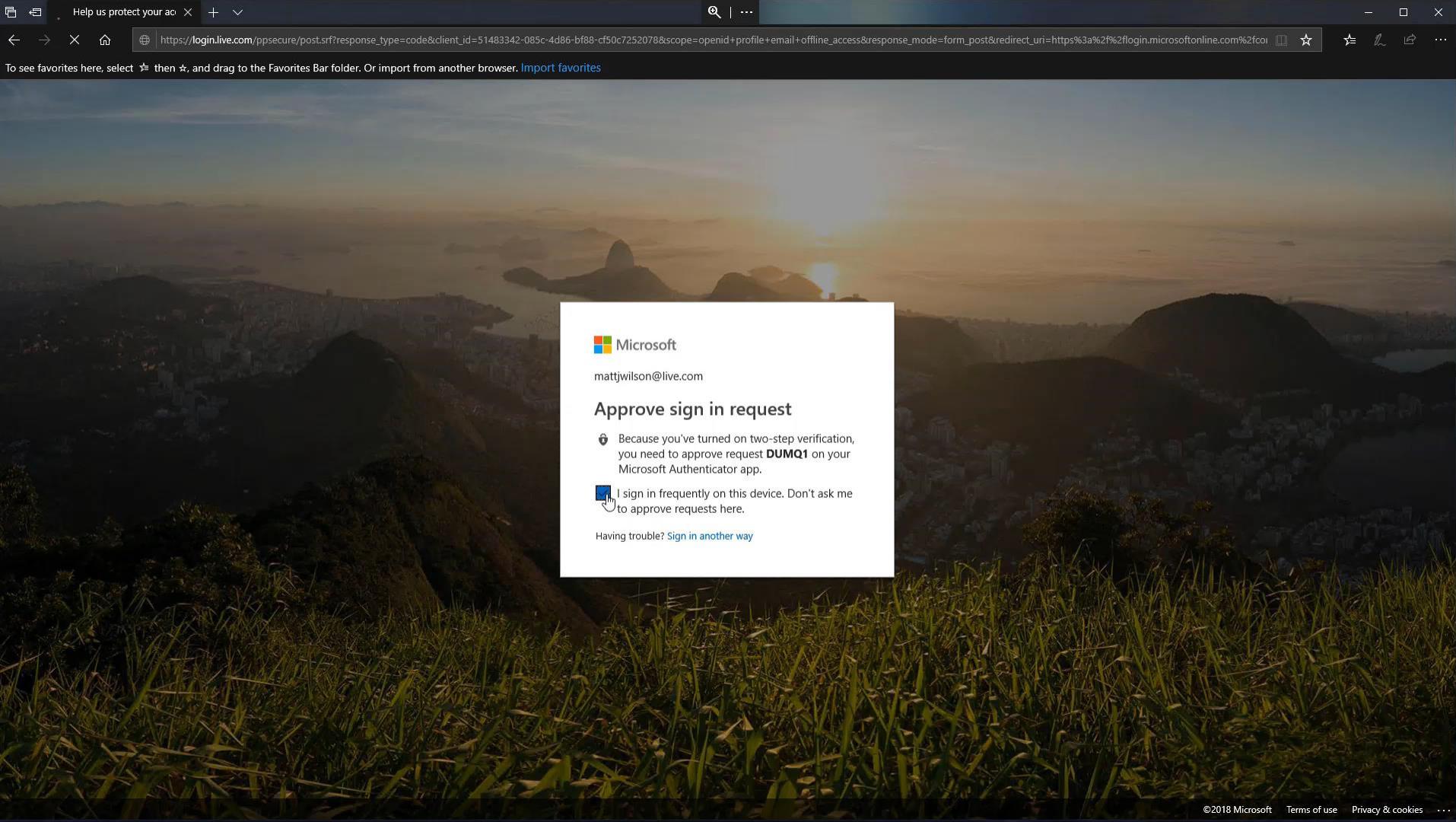
Pick an account



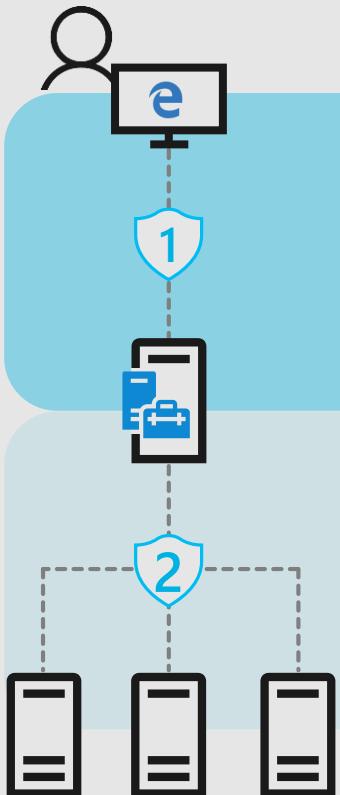
Matt Wilson (BASE)
matwils@microsoft.com
Connected to Windows



Use another account



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****Settings****GENERAL**

Environment Variables

Remote Desktop

Role-based Access Control**HYPER-V HOST SETTINGS**

General

Enhanced Session Mode

NUMA Spanning

Live Migration

Storage Migration

Search Tools

Role-based access controlRole-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

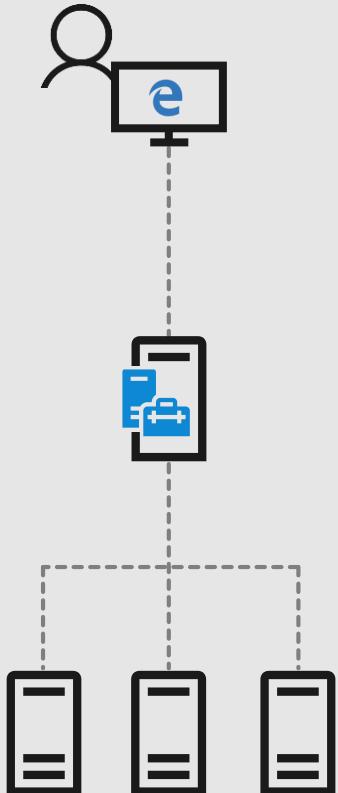
Allows users to view most tools, but doesn't allow them to make any changes.

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)

Tools

 Search Tools 🔍

Events

Administrative Logs

Windows Logs

Application

Security

System

ForwardedEvents

Setup

Applications and Services Logs

CloudBackup

HardwareEvents

> Intel

Internet Explorer

Key Management Service

> Microsoft

Microsoft-ServerManagementExperience

MicrosoftAzureRecoveryServices-Replica...

> NIS

> OpenSSH

Operations Manager

Windows PowerShell

Clear Export

28 items

Search 🔍

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

Event 4000, SMEGateway

Description Details

{ "powerShell": "Start-VirtualMachine", "module": "msft.sme.shell", "userOnGateway": "REDMOND\\erind", "gateway": "IFRADEMO18"}

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, 1:57:16 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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Where

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Windows Logs

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Setup

Applications and Services Logs

CloudBackup

HardwareEvents

Intel

Internet Explorer

Key Management Service

Microsoft

Microsoft-ServerManagementExperience

MicrosoftAzureRecoveryServices-Replica...

NIS

OpenSSH

Operations Manager

Windows PowerShell

Clear Export

Date and Time ↓

28 items



Search

Level

Information

9/18/2018, 4:56:03 PM

Source

SMEGateway

4000

Information

9/18/2018, 4:54:09 PM

SMEGateway

4000

Information

9/18/2018, 4:53:59 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

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": "IFRADEMO18"}

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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



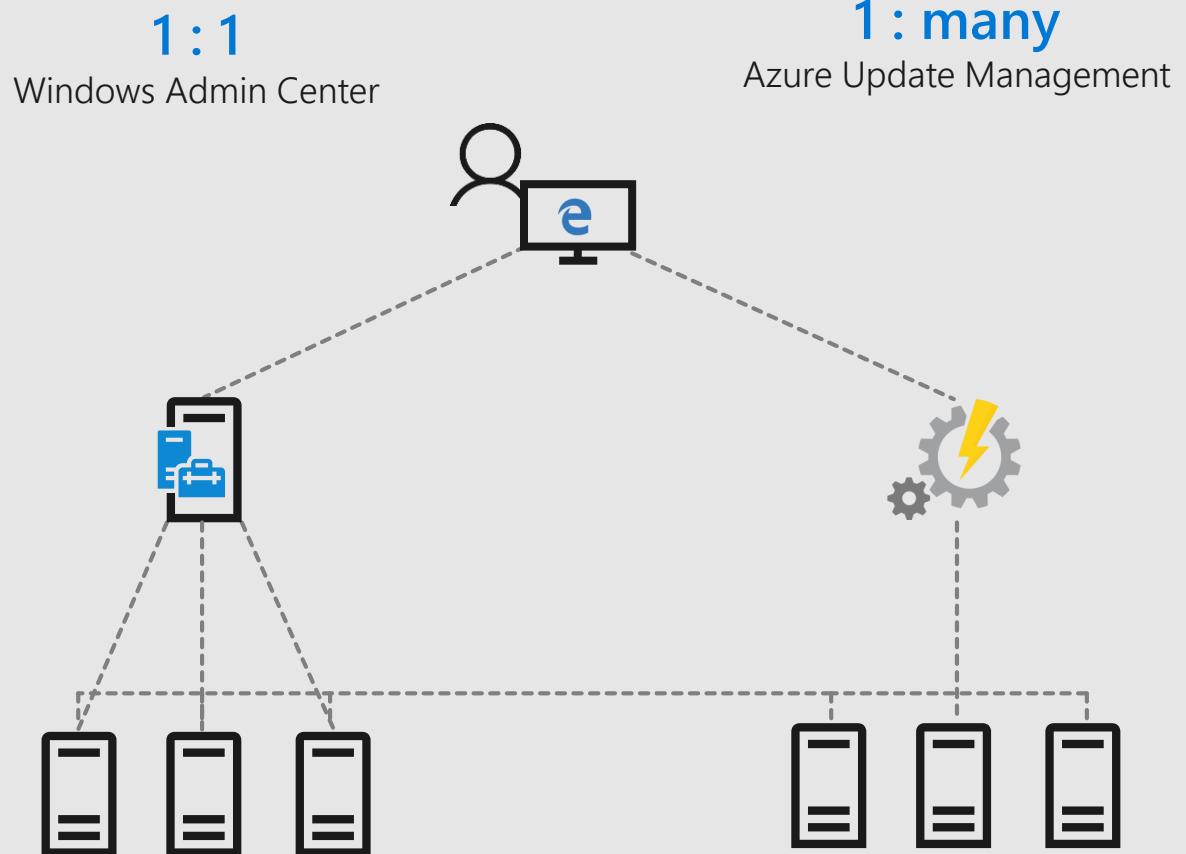
Azure
Update
Management



Azure
Site Recovery



Azure
Backup



Deploy a Windows Hybrid Runbook Worker

04/24/2018 · ① 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\version`. To confirm the version of the Hybrid Runbook Worker, you can browse to `C:\Program Files\Microsoft Monitoring Agent\Agent\AzureAutomation\version` 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
Copy
Try It
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
Copy
Try It
Add-HybridRunbookWorker -GroupName <String> -EndPoint <Uri> -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://smeaadgw.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

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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

1 item

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

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



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Update Title

Msrc Severity

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

Unspecified

Available Updates - Upc

https://smeaadgw.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

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1 item

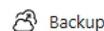
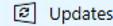
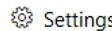
Update Title	Msrc Severity	Mandatory
Windows Malicious Software Removal Tool x64 - September 2018 (KB890830)	Unspecified	No

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

[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](#)[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

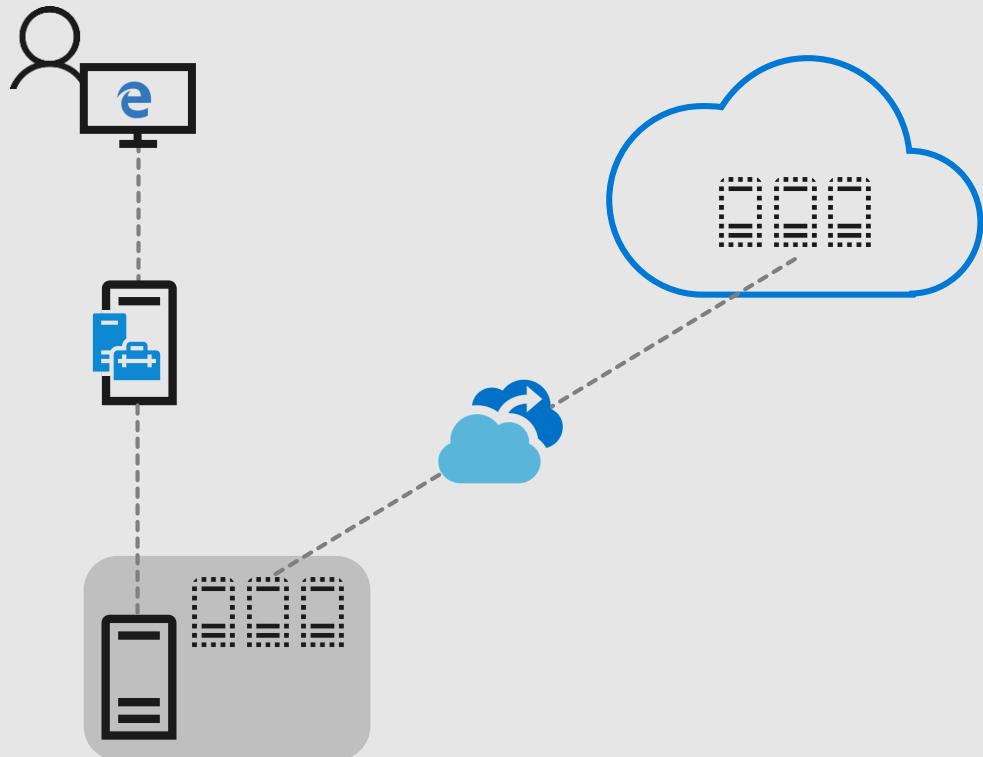
Enter restart date and time:

mm/dd/yyyy --:--:--

[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



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 >](#)

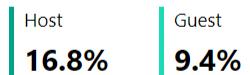
CPU

**8%**
of total CPU

Top CPU usage

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

Memory

**26.2%**
of 31.9 GB

Top assigned memory

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

harowl-box.redmond.corp.microsoft.com

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- Storage Replica
- Settings

Virtual machines MORE COMING SOONSummary **Inventory**

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



Search...



Uptime	Heartbeat	Disaster Rec...
8:20:49:09	No contact	Not protected
1:12:41:01	OK	Protected
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

Performance

Checkpoints

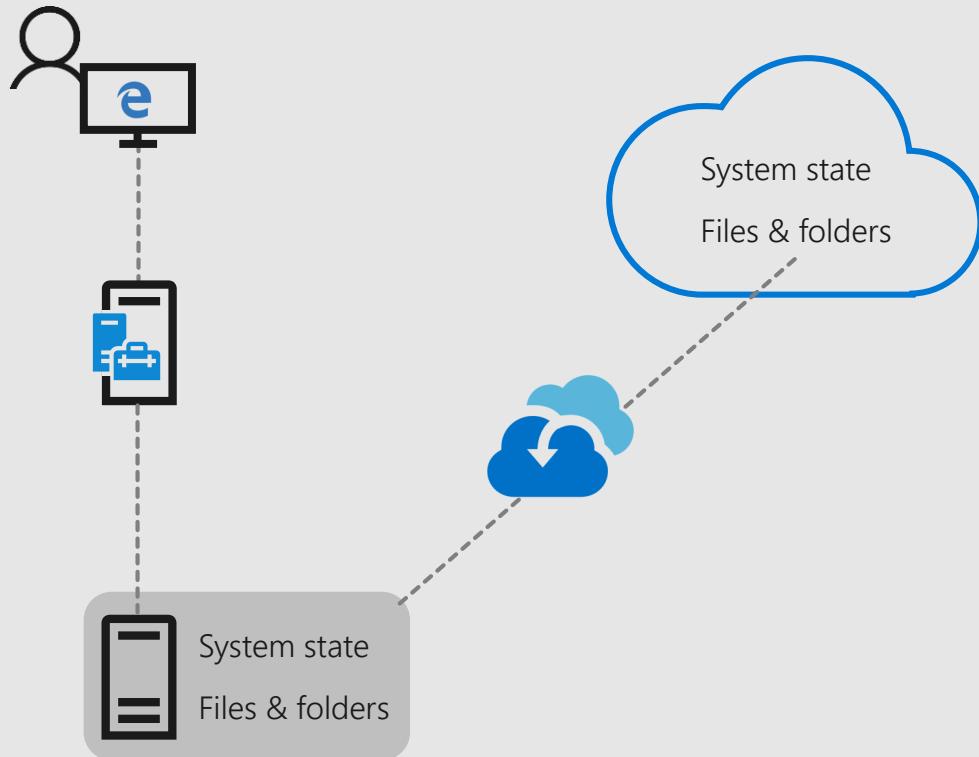
Apply Rename Delete checkpoint

There aren't any checkpoints.

Details



Azure Backup



Backup (Preview) - Serv x + v localhost:6516/servermanager/connections/server/harshitvm6/tools/Backup

Windows Admin Center Server Manager > Azure Backup PREVIEW

smehost.redmond.corp.microsoft.com

Tools

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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

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

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

localhost:6516/servermanager/connections/server/harshitv6/tools/Backup

Windows Admin Center Server Manager Microsoft ?

harshitv6

Tools

Search Tools

Overview Backup Recovery Points Jobs

Recovery Points

Recover Data Refresh

Time Backup Items

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:\

harshitvm6

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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 ...

Microsoft

harshitvm6

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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](#) 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

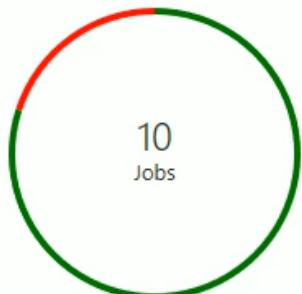
Protected Items

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

Jobs

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



Recovery Points

Files and Folders :- 2
System State :- 14



Recent Jobs

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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

Onboard

from your on-premises machine easily

Connect

to the Azure portal using contextual hyperlinks



Azure
Update
Management



Azure
Site Recovery



Azure
Backup

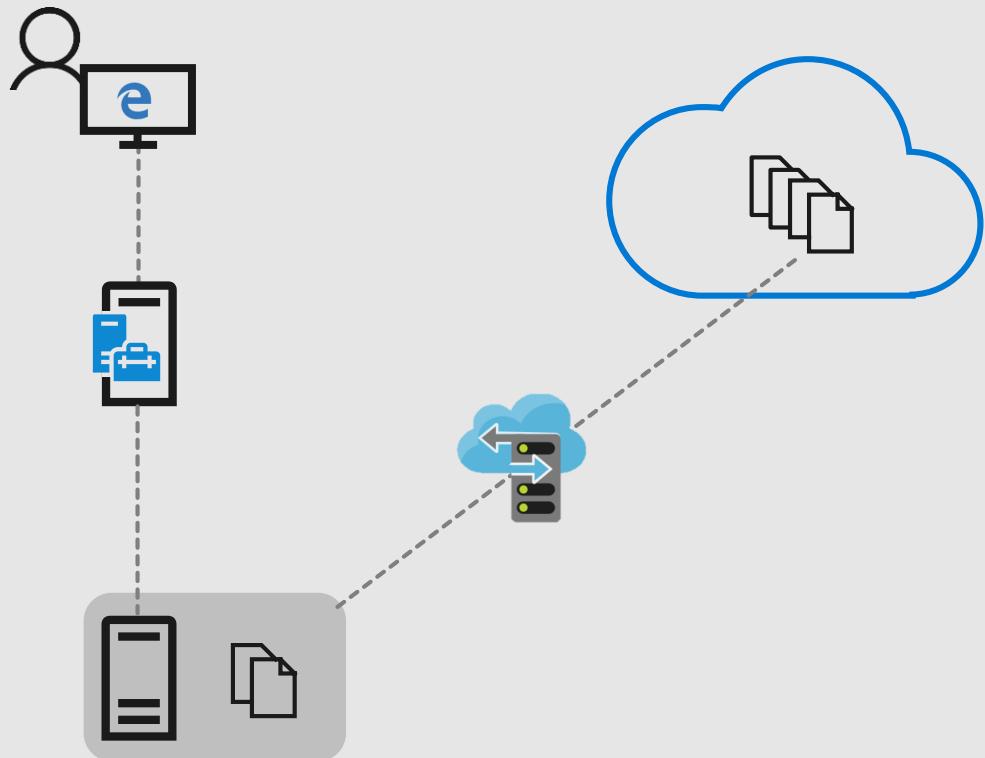


Azure
File Sync

And more!



Azure
File Sync



Windows Admin Center is built for hybrid



Bridge to the cloud

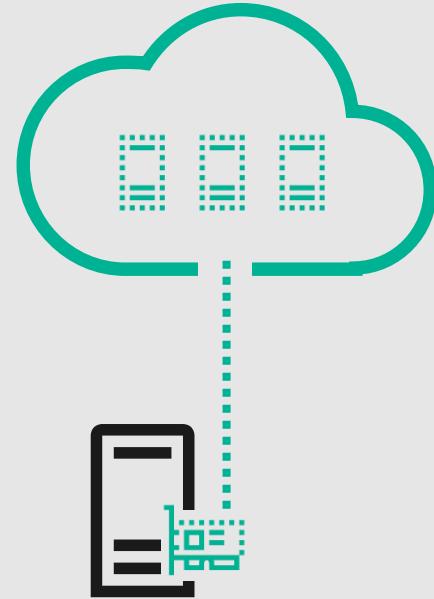


Embrace true hybrid infrastructure

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

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

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
WACVPN-31320	Point to Site VPN to Azure Virtual Network 'ContosoVN...'.	Connected

3

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

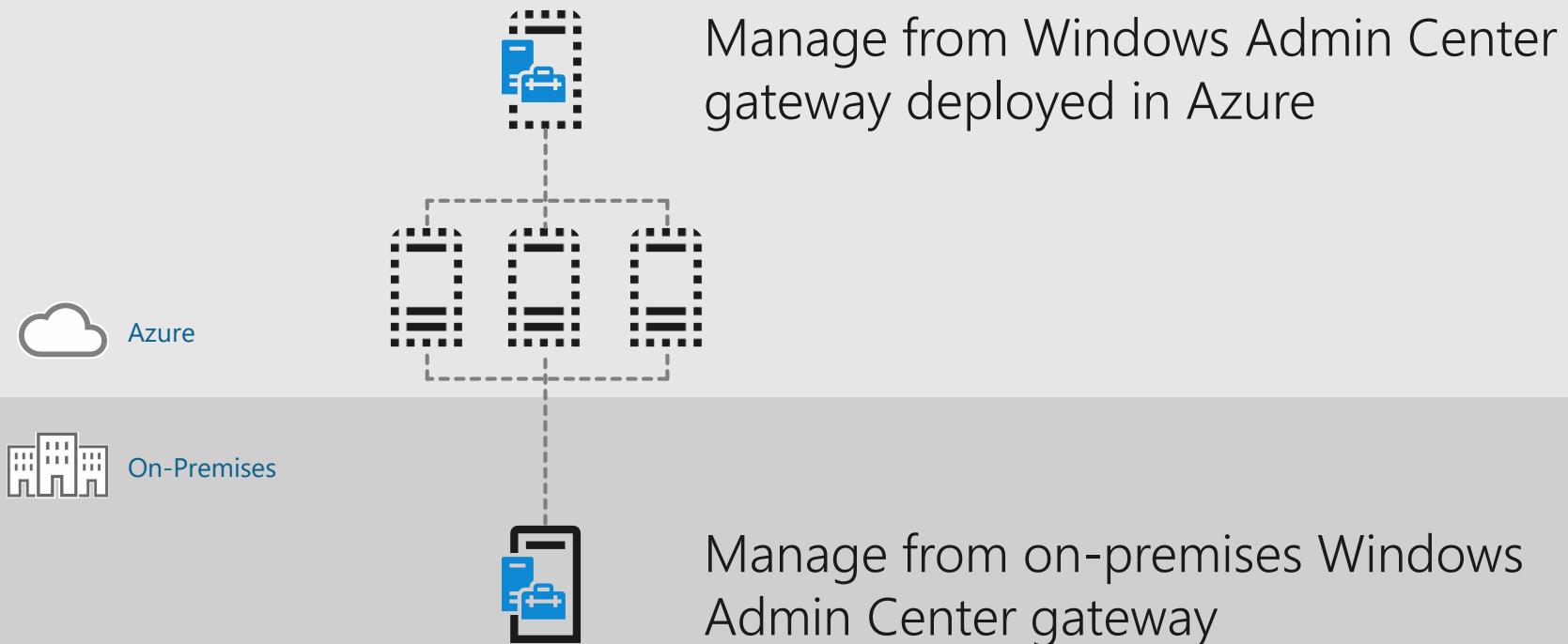
Client Address Space * Required
10.127.132.128/25

Authentication Certificate * Required
 Add Auto-generated Self-signed root and client Certificate
 Add my own root and client certificate

 Create Cancel

2

Manage Azure VMs



Windows Admin Center is built for hybrid



Bridge to the cloud



Embrace true hybrid infrastructure

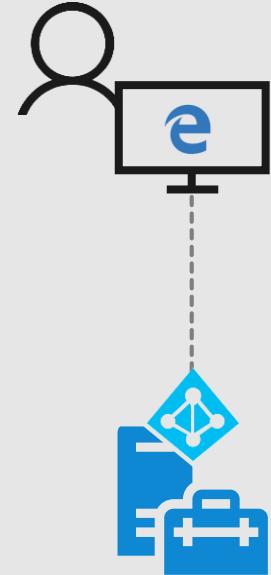


Enhance Windows Admin Center capabilities with Azure

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

Windows Admin Center × + ↻

localhost:6516/ Microsoft

Windows Admin Center

Windows Admin Center

All Connections

+ Add Connect Manage As Remove Edit Tags

4 items

Name ↑ Type Last Connected Managing As Tags

Name ↑	Type	Last Connected	Managing As	Tags
brmichol-vm04.cfddev.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	

Search

↻

▼

↶



Install

8 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
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



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

Search

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

Search

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

X

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



\Orchestrating a brighter world



5224p0cluster4.fast.dataonstorage.com

Tools



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COMPUTE

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DataON MUST

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DataON MUST for Windows Admin Center

www.dataonstorage.com

Drive Map

HCI Reports

Alert Services

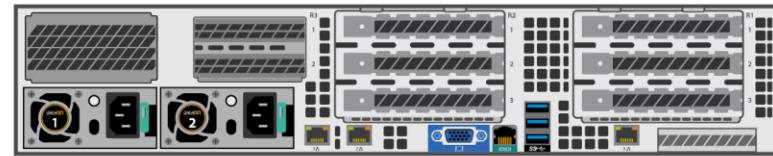
About DataON

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%
CVPF634600KD450...	1	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.98%
CVPF634600R450R...	2	Healthy	INTEL SSDPE2MX45	NVMe	419.19 GB	Capacity	40.98%
CVPF634600N450...	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							

V17698-N1.fast.dataonstorage.com



Serial Number	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

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FUJITSU ServerView® Health	
FUJITSU ServerView® RAID	

ServerView® Health

Overview

Server Health

Power Consumption

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123 items



Health Tree

System Event Log

Driver Monitor

Components

Processors

Memory Modules

Fans / Cooling

Power Supplies

Temperatures

Voltages

Health State Components Tree

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	<input type="radio"/> 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



ServerView extensions

<https://aka.ms/wac-fujitsu-extension>

Health Tree
System Event Log
Driver Monitor
Components
Processors
Memory Modules
Fans / Cooling
Power Supplies
Temperatures
Voltages

Health State Components Tree

- ✓ 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

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FUJITSU ServerView® Health

FUJITSU ServerView® RAID

ServerView® RAID

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Storage Device Tree

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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

Write Through

Cache Mode

Direct

Disk Cache Mode

Enabled



ServerView extensions

<https://aka.ms/wac-fujitsu-extension>

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

int-honolulu.int.squaredup.com

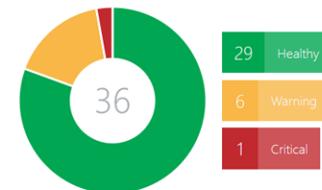
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- [Storage](#)
- [Storage Replica](#)
- [Updates](#)

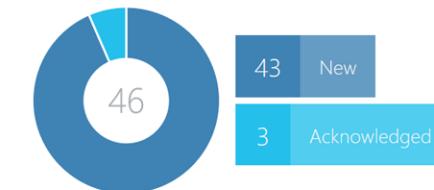
INT-HONOLULU.int.squaredup.com

Windows Computer Overview

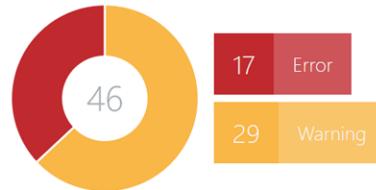
Windows computer health



Alert Resolution States



All Open Alerts



Top 5 Full Disks

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

All New Error Alerts

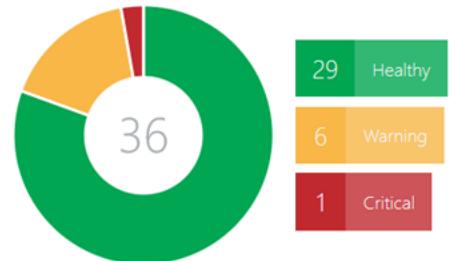
Partitioning and grooming has not completed rece...	All Management Servers Resource Pool DB Watcher	CUST-SCOM-MS02.int.squaredup.com	New	19 hours ago
MSSQL 2016: Monitoring failed	OPP-SQL03.sales.int.squaredup.com	OPP-SQL03.sales.int.squaredup.com	New	7 days ago
Invalid application path	WpSite2	INT-USER-WP01.int.squaredup.com	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.squareduo.com	New	15 days ago
MSSQL 2016: Discover failed	OPP-SQL03.sales.int.squareduo.com	OPP-SQL03.sales.int.squareduo.com	New	16 days ago



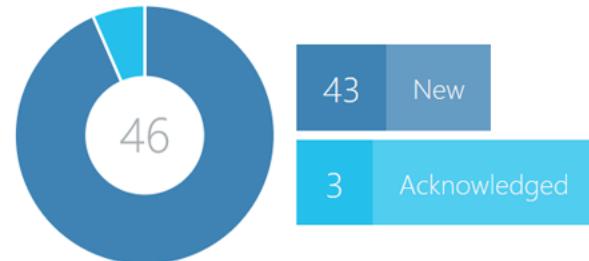


Windows Computer Overview

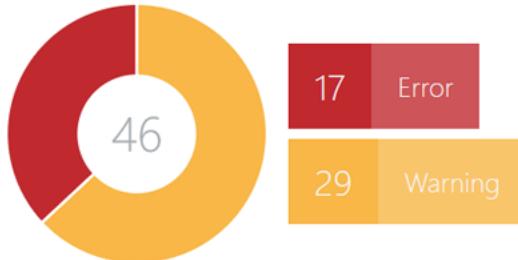
Windows computer health



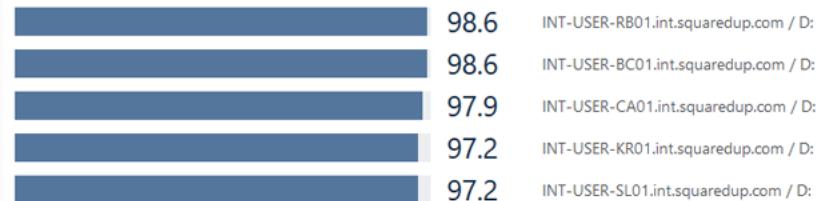
Alert Resolution States



All Open Alerts

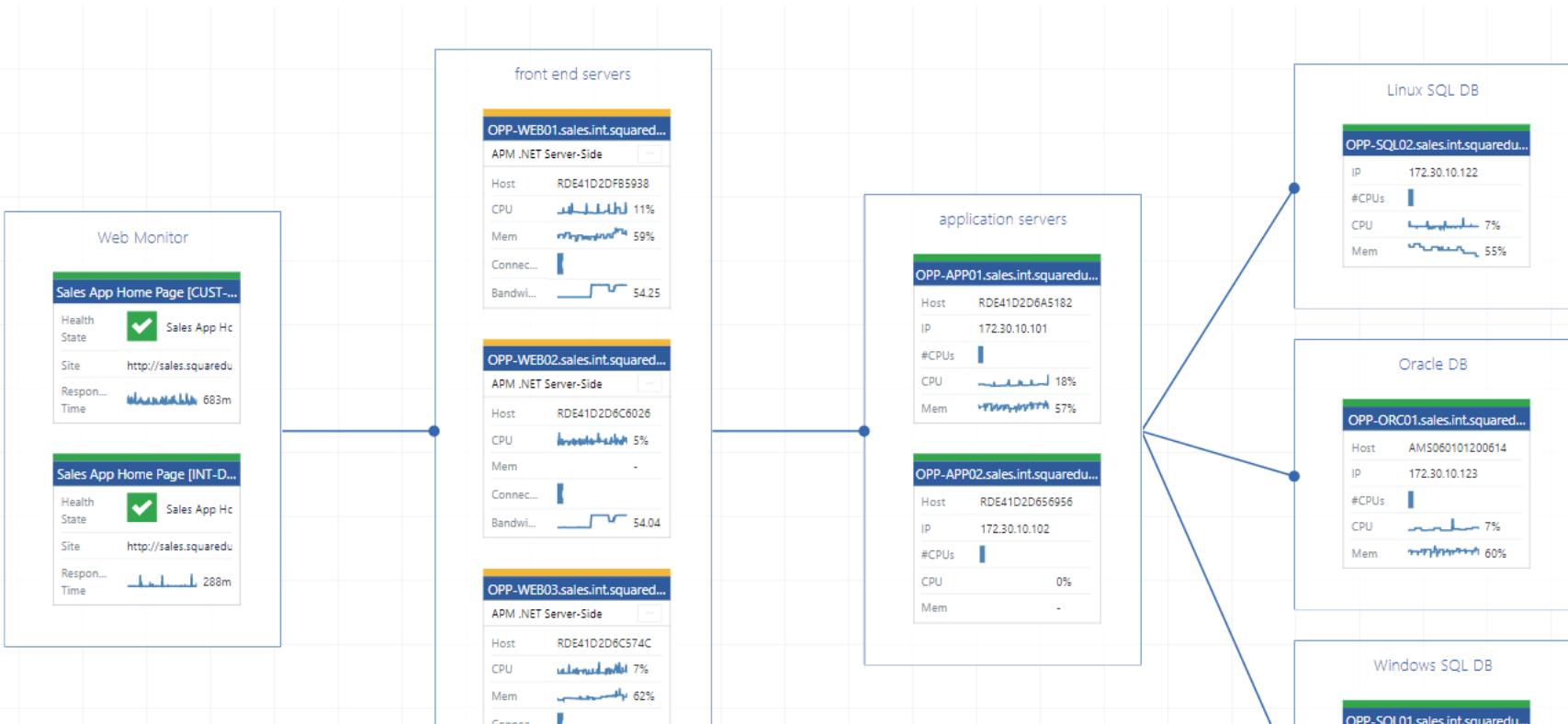


Top 5 Full Disks



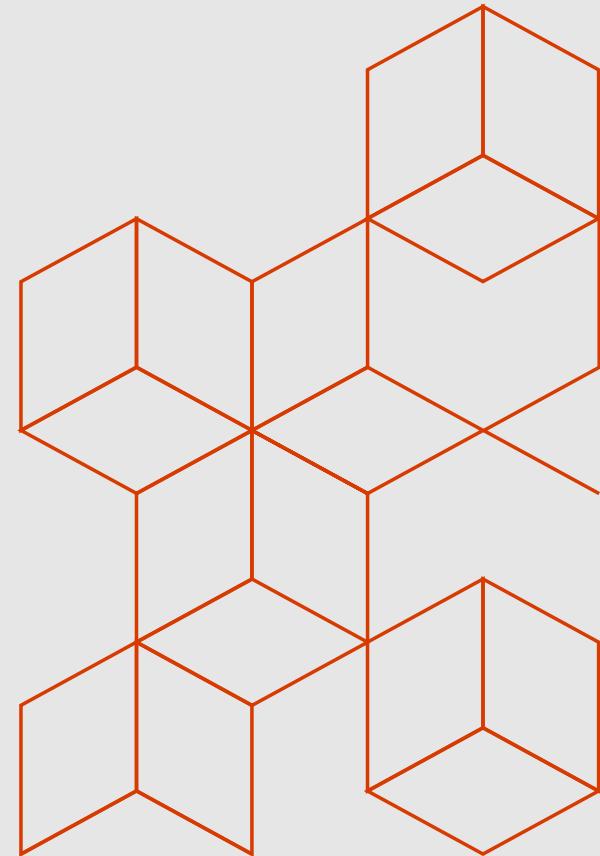
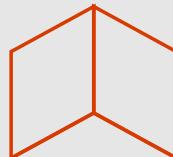
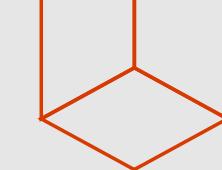
All New Error Alerts





Windows Admin Center SDK

Generally Available!



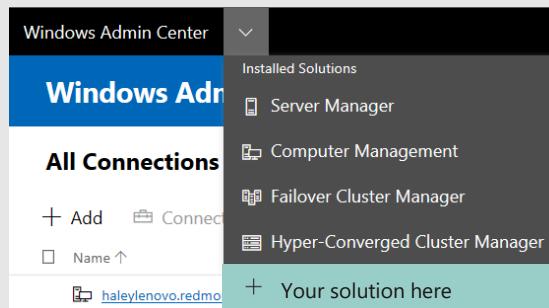
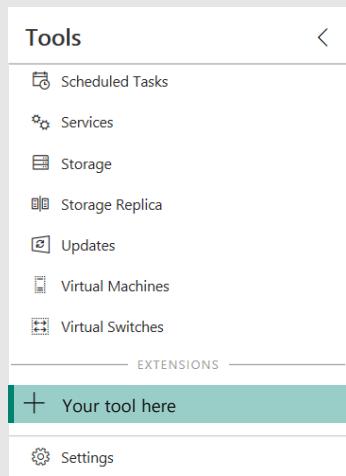
Develop with Windows Admin Center SDK

Integrate with Windows Admin Center tools

Leverage platform capabilities

Develop with latest web technologies

Extend product outreach



SDK Resources

Learn

This screenshot shows a Microsoft Edge browser window displaying the 'Extensions for Windows Admin Center' page from the Microsoft Docs website. The page title is 'Extensions for Windows Admin Center'. It features a sidebar with navigation links for Windows Admin Center, Overview of extensions, and a detailed article about developing extensions. The main content area contains a summary of what Windows Admin Center is, how extensions work, and why they are useful. It also includes a section on how to develop an extension.

Design

This screenshot shows the Windows Admin Center interface for a server named 'server-01.contoso.com'. The 'Overview' dashboard is displayed, featuring several performance graphs: CPU, Memory, and Ethernet utilization. The CPU graph shows usage at 10.8% over time. The Memory graph shows usage at 1.6 GHz. The Ethernet graph shows utilization at 10.8% over time. On the left, a navigation pane lists various management tools like Certificates, Devices, Events, Files, Firewall, Local Users & Groups, Networks, Processes, Roles & Features, Services, Storage, Storage Replica, Virtual Machines, Virtual Switches, and Windows Update.

Develop

This screenshot shows a GitHub repository page for 'Microsoft/windows-admin-center-sdk'. The repository has 13 stars and 40 forks. The code file 'SampleHttpPlugin.cs' is shown, containing C# code for a sample HTTP plugin. The code includes imports for System, System.Net, System.Net.Http, System.Threading, and System.Threading.Tasks, and defines a class 'SampleHttpPlugin' that implements the 'IHttpPlugin' interface. The class has a constructor that initializes a new instance of the plugin, and a 'ProcessRequest' method that processes the specified request.

```
// Copyright © Microsoft. All rights reserved.
// SampleHttpPlugin.cs
namespace Microsoft.ManagementExperience.Samples
{
    using System;
    using System.Net;
    using System.Net.Http;
    using System.Threading;
    using System.Threading.Tasks;
    using Microsoft.ManagementExperience.FeatureInterface;

    /// Summary
    /// Represents a sample HTTP plug-in.
    /// Summary
    [Serializable]
    public class SampleHttpPlugin : IHttpPlugin
    {
        /// Summary
        /// Initializes a new instance of the SampleHttpPlugin class.
        /// Summary
        public SampleHttpPlugin()
        {
            base\("Sample Uno"\)
        }

        /// Summary
        /// Processes the specified request.
        protected override void ProcessRequest(HttpContext context)
        {
            base.ProcessRequest\(context\);
        }
    }
}
```

<https://aka.ms/WindowsAdminCenter>

PowerPoint toolkit

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



Modern, Simple, Integrated
User Experience



Core tools



HCI Management



Security



Built for Hybrid



Partner Ecosystem

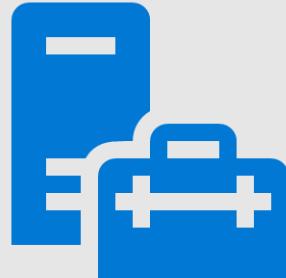


Secure, cloud-ready, extensible
Platform

Windows Admin Center

Experience the future of server management today

<https://aka.ms/WindowsAdminCenter>





What's next?!

11:40 AM - 12:40 PM

Cireson: Intelligent IT Service Management with Service Manager and Azure Machine Learning

Geoff Ross

300 Azure SCSM

11:40 AM - 12:40 PM

HYCU - Expansion to Cloud by leveraging existing F5 investments

Enis Avdicausevic

200 SCOM Azure Security

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ACP IT Solutions & Hewlett Packard Enterprise: Innovate or Operate

Denninger Stefan

200 Automation Azure

11:40 AM - 12:40 PM

inovit - Why Identity and Access Management is Crucial for Digital Transformation?

Jochen Nickel

200 Azure Security EMS

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StarWind Software Inc. - Hyperconvergence for SMB & ROBO

Dmytro Malynka

200 Windows Server Hyper-V

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itnetX - Bringing Service Management and Automation to the next level

Dieter Gasser

200 DevOps Automation

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Squared Up - Expert panel: Hybrid cloud monitoring with SCOM 2019 and Azure Monitor

Richard Benwell

300 SCOM Azure Other



Thank you!!!

Time for your questions...



Thank You!

Gold



Silver



Conference Partner

