
















Windows Admin Center 

 Microsoft

Windows Admin Center

Alle Verbindungen

 Hinzufügen  Verbinden  Verwalten als  Entfernen  Tags bearbeiten

<input type="checkbox"/> Name 	Typ	Zuletzt verbunden	Verwalten als
 da.ad.cloudmechanic.de	Server	Nie	AD\DomainRoot
 dpm.ad.cloudmechanic.de	Server	28.3.2018, 13:06:45	AD\DomainRoot
 gw.ad.cloudmechanic.de	Server	13.4.2018, 08:07:17	AD\DomainRoot
 hvh1	Server	12.4.2018, 19:53:52	AD\DomainRoot
 mail1.ad.cloudmechanic.de	Server	Nie	AD\DomainRoot
 sccm1.ad.cloudmechanic.de	Server	Nie	AD\DomainRoot
 sql1.ad.cloudmechanic.de	Server	14.1.2018, 00:46:19	AD\DomainRoot

Windows Admin Center

About me:

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IT Consultant @sepago GmbH Cologne
Microsoft MVP for Azure ☺



Orga AzureBonn Meetup (Next: Azure Governance 19.02.19)

 @GregorReimling | @AzureBonn

Gregor@Reimling.eu

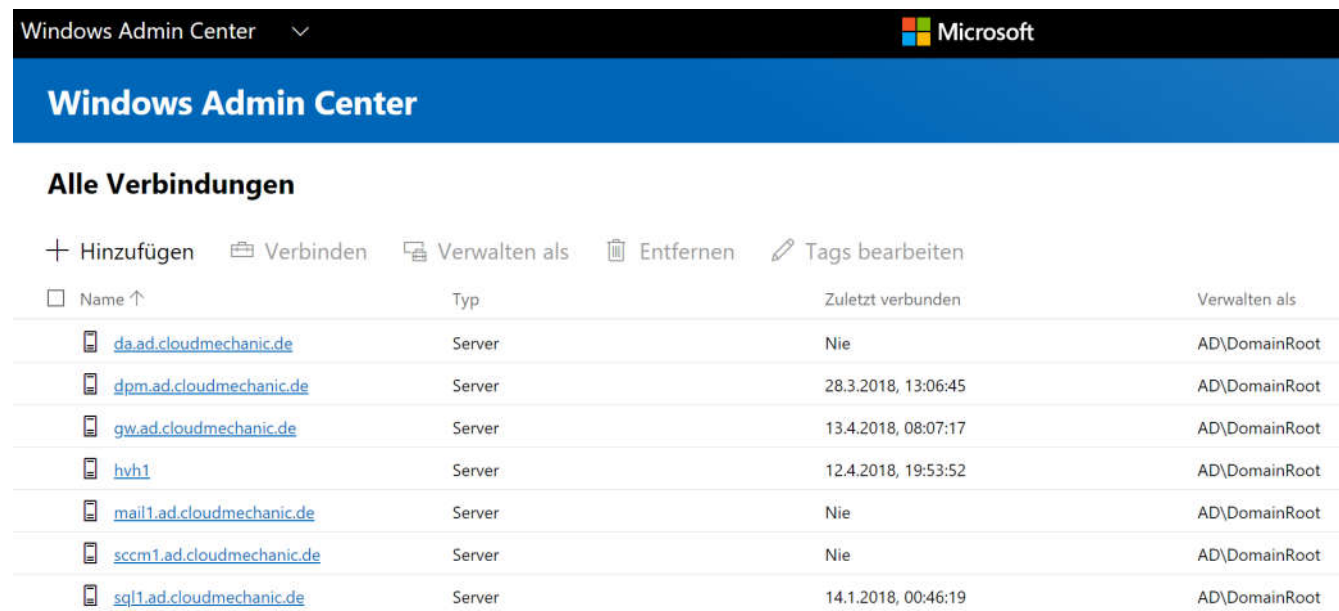


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 www.neutralien.com

Windows Admin Center – Agenda

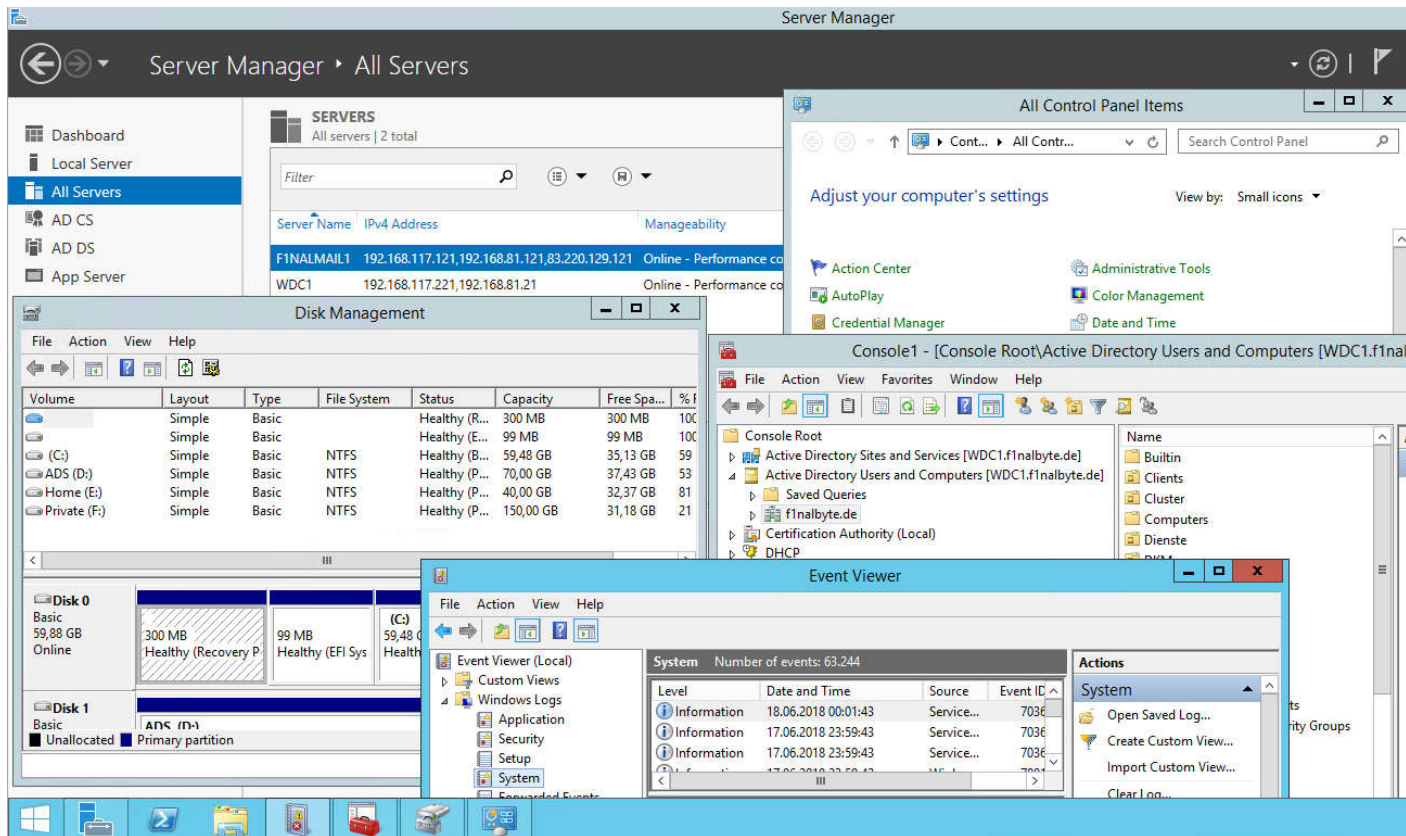
- General
- Functions
- Demo
- Azure B-Series
- Good to Know
- Conclusion
- Links



The screenshot shows the Windows Admin Center interface. At the top, there's a header with 'Windows Admin Center' and the Microsoft logo. Below this, the title 'Windows Admin Center' is displayed. The main section is titled 'Alle Verbindungen' (All Connections). Below the title, there are several action buttons: '+ Hinzufügen' (Add), 'Verbinden' (Connect), 'Verwalten als' (Manage as), 'Entfernen' (Remove), and 'Tags bearbeiten' (Edit tags). Below these buttons is a table with the following columns: 'Name' (with a sort icon), 'Typ' (Type), 'Zuletzt verbunden' (Last connected), and 'Verwalten als' (Manage as). The table contains seven rows of data, each representing a connection to a server.

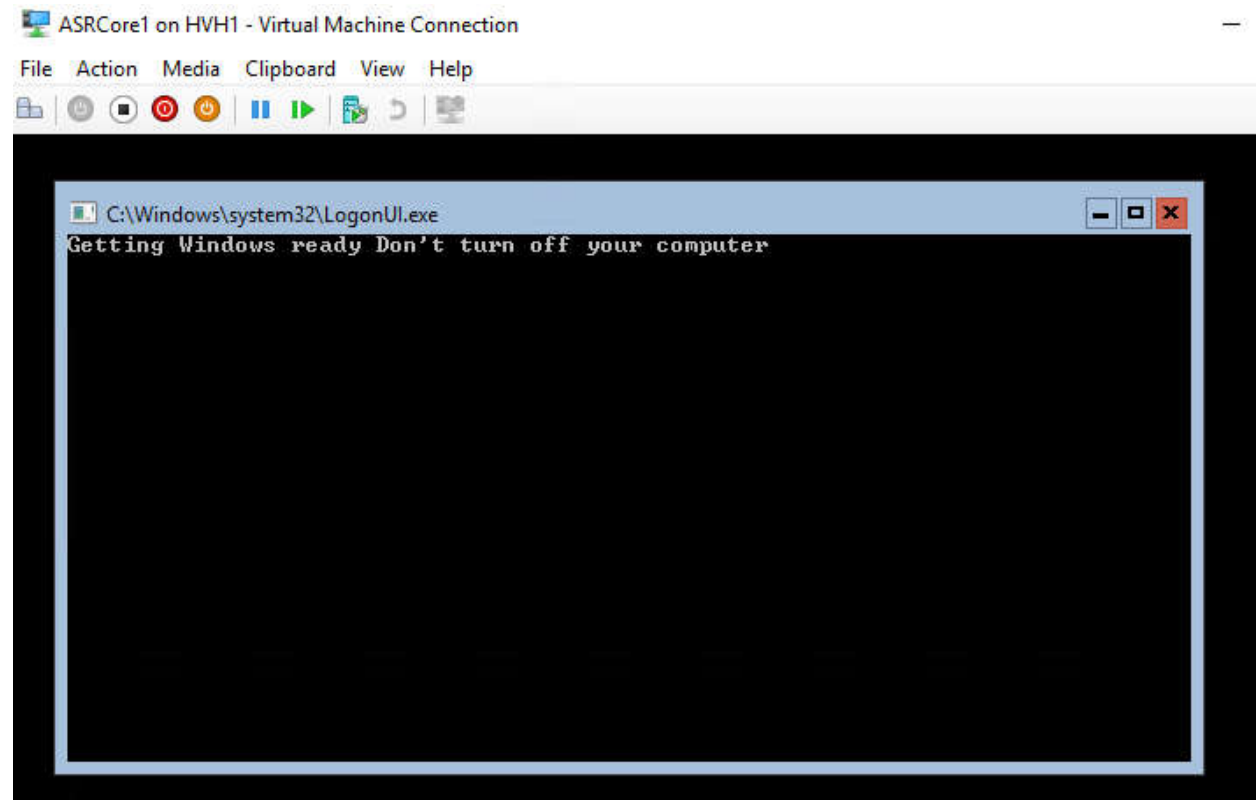
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 sql1.ad.cloudmechanic.de	Server	14.1.2018, 00:46:19	AD\DomainRoot

Servermanagement so far



Servercore Management so far

- Via Commandline
- Powershell (Remote)
- Servermanager
- Corefig.ps1

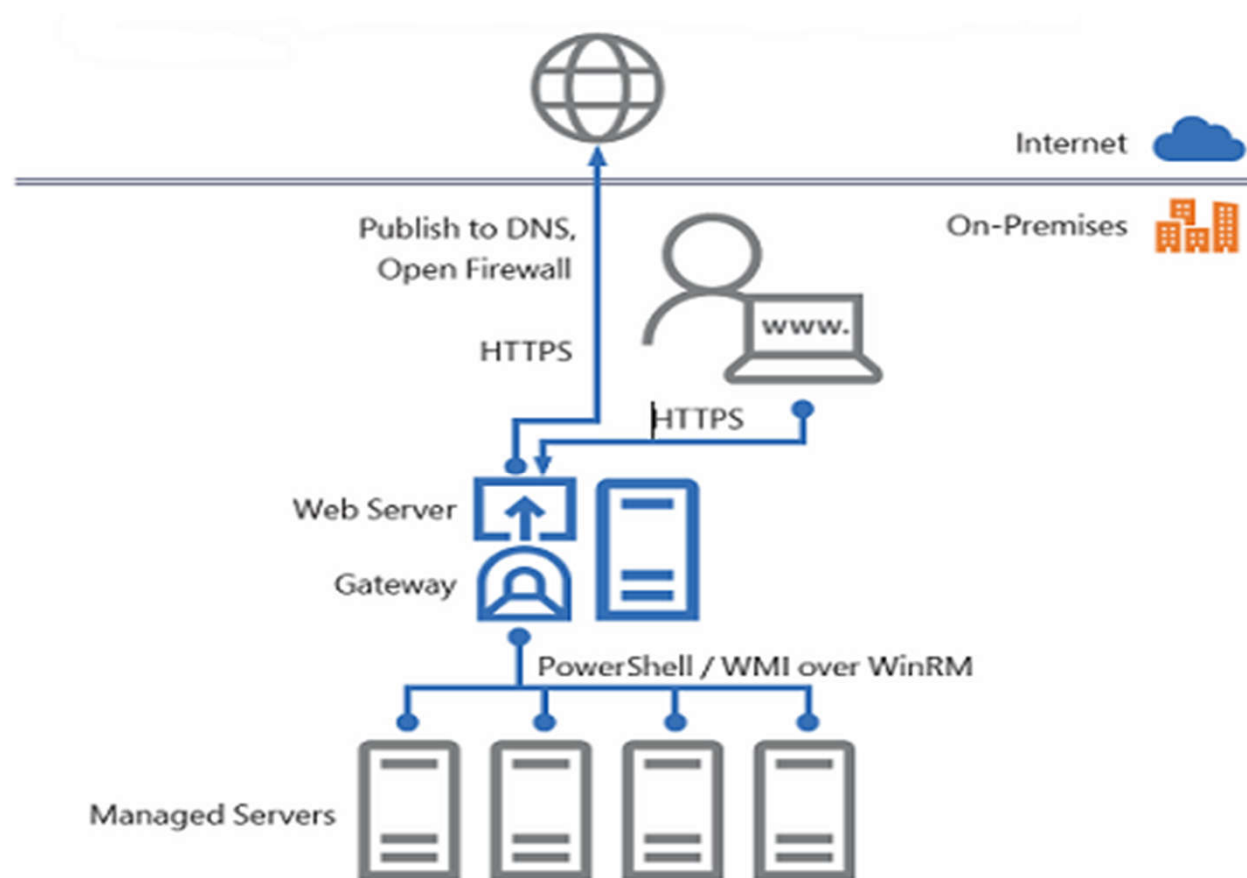


Windows Admin Center – General

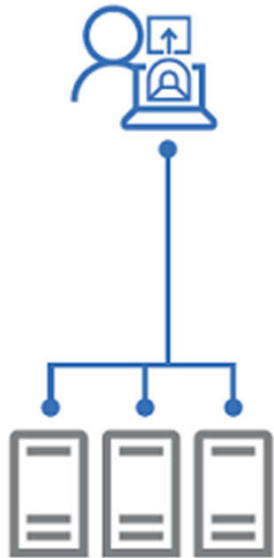
- Windows Admin Center = WAC
- Next Generation Servermanager – Webbased on HTML 5
- Central surface for all server
- Easy installation - (MSI Paket) On-Premise or Cloud VM
- All Functions from the Servermanagers + many more included
- Import of existing Server easy via Textfile
- Serveranalysis agentless – WMI and PS

<https://docs.microsoft.com/en-us/windows-server/manage/windows-admin-center/overview>

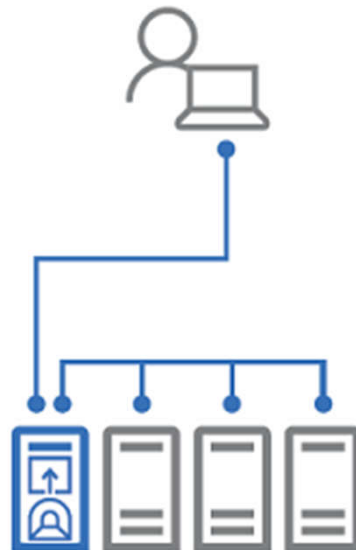
Windows Admin Center - Architecture



WAC – Installation



Installation local on Windows 10 Client. For testing and lab scenarios.



Installation direct on one of the managed servers. For Servermanagement and Clusternodes



Installation on Gateway Server to access the WAC from Browser and hosting WAC in a DMZ



Installation on high available Gatewayserver.

<https://docs.microsoft.com/en-us/windows-server/manage/windows-admin-center/plan/installation-options>

WAC – Requirements

- WAC based installation
 - Windows 10 (<=1709) in Desktop Mode
 - Windows Server 2016 (GUI oder Core), v1709 in Desktop or Gateway Mode
- Supported Server for Management
 - from Windows Server 2012
- General availability since 1804
- Updates now manually, planning for WSUS

WAC – supported Functions

Server

- Overview
- Certificates, Devices, Events
- Files, Firewall, Local User and Groups
- Network, Powershell, Processes
- Registry, Remote Desktop
- Roles and Features, Services
- Storage Replica, Storage
- Updates, Virtual Machines
- Virtual Switches
- ...

Failover Cluster

- Overview
- Disks
- Networks
- Nodes
- Roles
- Virtual Machines
- Virtual Switches
- ...

Hyper-Converged Cluster

- Overview
- Drives
- Server
- Virtual Machines
- Virtual Switches
- Volumes
- ...

Azure

- Azure Backup
- Azure Site Recovery
- Azure File Sync
- ...

WAC – Recommendation for installation

- Provisioning as Gateway Server
- Used as Entrypoint, register manageable Server here
 - Used Ports only open to internal
- Can also used for DMZ
- Installation local or in Azure possible
- High availability
 - HA only in Active- Passive Mode via Failover- Cluster Function from Windows Server
- Integration in Azure possible
 - To authenticate via AzureAD
 - To manage Azure Site Recovery
 - There coming more and more manageable services in Azure

Windows Admin Center

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Alle Verbindungen








+ Hinzufügen

Verbinden

Verwalten als

Entfernen

Tags bearbeiten

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DEMO-TIME

Azure B-Series

- B- Series new since Sep. 2017
- Burstable Performance
- Priceless Azure-VM's
 - (A2, 2 vCPU, 3,5GB RAM) = 110,81€
 - (B2S, 2vCPU, 4GB RAM) = 39,89€
- Ideal for small workloads (Domaincontroller, Webserver, ...)
- Collects credits when Machine in idle
- Machine needs performance, the credits will be used
- Information about credit status available over Azure Metric

Exkurs Azure B-Series

Size	vCPU's	RAM	Local SSD	Baseline Performance	Max. CPU Performance	West Europe Price (monthly)
Standard B1s	1	1	4	10%	100%	10,53€
Standard B1ms	1	2	4	20%	100%	19,95€
Standard_B2s	2	4	8	40%	200%	39,89€
Standard_B2ms	2	8	16	60%	200%	75,35€
Standard_B4ms	4	16	32	90%	400%	142,39€
Standard_B8ms	8	32	64	135%	800%	273,70€



WAC – Recommendation for installation

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- High availability
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WAC – Recommendation for installation

- Deploy in Azure
- For installation recommended Azure VM
 - B2S – 2 Cores, 4GB RAM (based on a environment with 20 manageable servers)
- HA possible
 - Need 2 B2S Azure VMs
 - Need Failover Cluster
 - Based on Active Passive Mode
- Management for On-Prem Server via S2S and Azure VMs possible
- Azure Integration for using Azure AD as Rights Management

WAC - Overview

Cost	Browse using	Installs on	Manages	Connectivity
Free!	 Edge  Chrome	Windows Server, version 1709 Windows Server 2016 Windows 10	Windows Server 2019 Windows Server 2016 Windows Server 2012 R2 Windows Server 2012 Microsoft Hyper-V Server	Azure not required Internet not required AD not required
Security	Configuration	Positioning	Feedback	Extensions
HTTPS LAPS Delegation	IIS not required Agents not required SQL not required WMF 5.1 required on WS 2012 and 2012 R2	Evolution of “in-box” tools Complementary to RSAT, SC and OMS	Upvotes via UserVoice	Via SDK

WAC – Good to know

- Note for Browser- compatibility (only Edge or Chrome)
- Extended Rightsmanagement
 - Using of local Servergroups or AD Integration integriert
 - Direct AzureAD Integration
- Additionally Rolebased Access (RBAC – 3 level)
 - WAC Administratoren – Viewing and managing of most functions
 - WAC Hyper-V Admins – Managing the Hyper-V Role, other functions only readable
 - WAC Readers – All functions only in reading mode
- Powershell and Remotedesktop Connection via Browser
- SSL Certificate required for secured HTTPS Connection

WAC – Extensions

- Integrate Azure AD for security and role-based access
- Latest Release (1812 Beta) brings PowerShell Modul to configure WAC via scripts
- Many extensions available
 - Must manually activate
- Own extensions possible
 - with WAC SDK

Windows Admin Center > Settings

USER

Account

Language / Region

Suggestions

Advanced

GATEWAY

Extensions

Azure

Access

Extensions

We might have to restart the Windows Admin Center gateway after installing an extension, temporarily

Available extensions

Installed extensions

Feeds

Install Update To Latest

Name ↑	Version	Created By
Containers (Preview)	0.47.0	Microsoft
DataON MUST Visibility, Monitoring, ...	2.2.0	DataON
Fujitsu ServerView® Health	1.0.0	Fujitsu Technology Solutions
Fujitsu ServerView® RAID	1.0.0	Fujitsu Technology Solutions
Lenovo XClarity Integrator	1.0.4	Lenovo
Pure Storage FlashArray (Preview)	1.0.20	Pure Storage
QCT-Management-Suite (Preview)	0.1.15	QCTTW

WAC - Installationsempfehlung

- Bereitstellung in DMZ oder in Azure Hub VNET empfohlen
- Zur Bereitstellung geeignete Azure VMs
 - B2S – 2 Cores, 4GB RAM
- Management der On-Premise Server via S2S und Azure VMs möglich
- Azure Integration und Nutzung der Azure AD als Rechteverwaltungsinstanz

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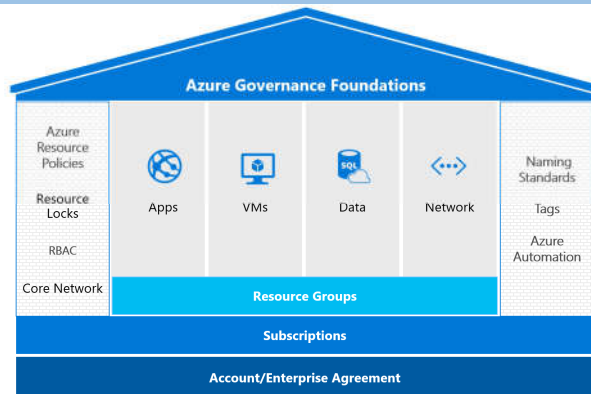
WAC - Conclusion

- Many options for installation 😊
- Free available and easy to install – included HA option 😊
- Simplifies the administrations life 😊
- Powershell and Remotedesktop Connection via Browser 😊
- SSL Certificate required for secured HTTPS Connection 😊
- Updates currently not via Windows Update 😞

WAC - Links

- [Windows Admin Center Documentation](#)
- [Windows Admin Center Launch](#)
- [Windows Admin Center Known issues](#)
- [WAC – MSIgnite Theater Session for partner extensions](#)
- [WAC – MSIgnite WAC Session recordings](#)
- [Azure B- Series Introduction](#)

Thank you!



Azure Governance mit Eric Berg
www.azurebonn.de