



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

Gregor Reimling



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About me:

Gregor Reimling

IT Consultant for Azure

Since October Microsoft MVP for Azure ☺

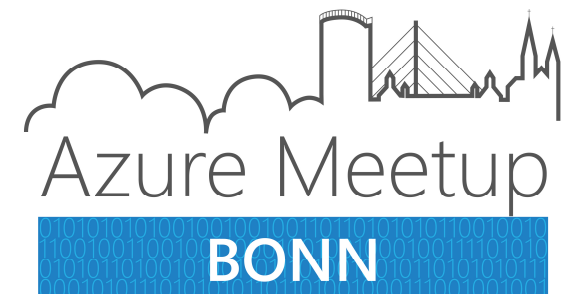
Azure, Windows Server, Hyper-V

Working @**sepago** GmbH Cologne

Orga AzureBonn Meetup (Next: Azure DevOps 22.11.18)

 @GregorReimling | @AzureBonn

info@Reimling.eu



www.reimling.eu



www.neutralien.com



Windows Admin Center — Agenda

General

Functions








Demo

Azure B-Series

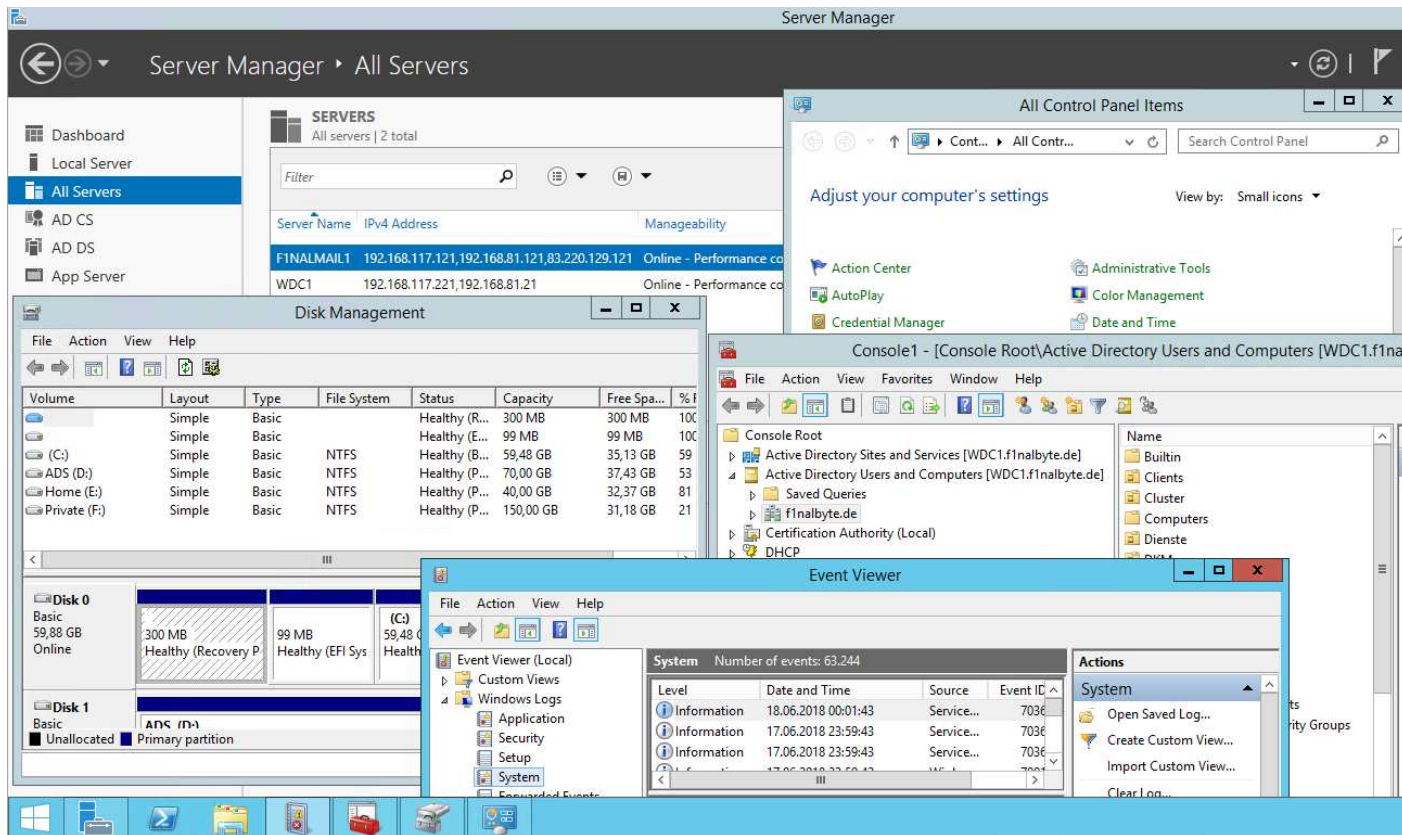
Good to Know

Conclusion

Links

Windows Admin Center				Microsoft
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 scm1.ad.cloudmechanic.de	Server	Nie	AD\DomainRoot	
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Servermanagement so far



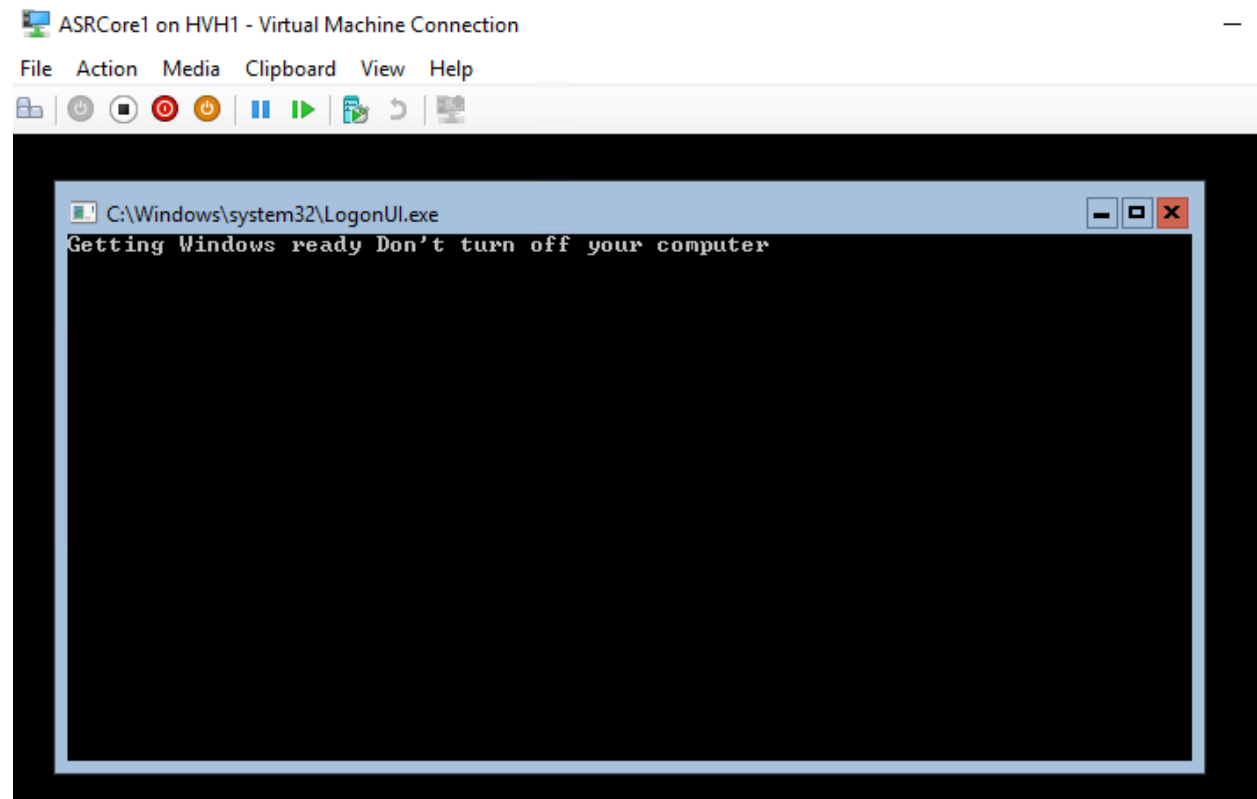
Servercore Management so far

Via Commandline

Powershell (Remote)

Servermanager

Corefig.ps1





Windows Admin Center – Allgemeines

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

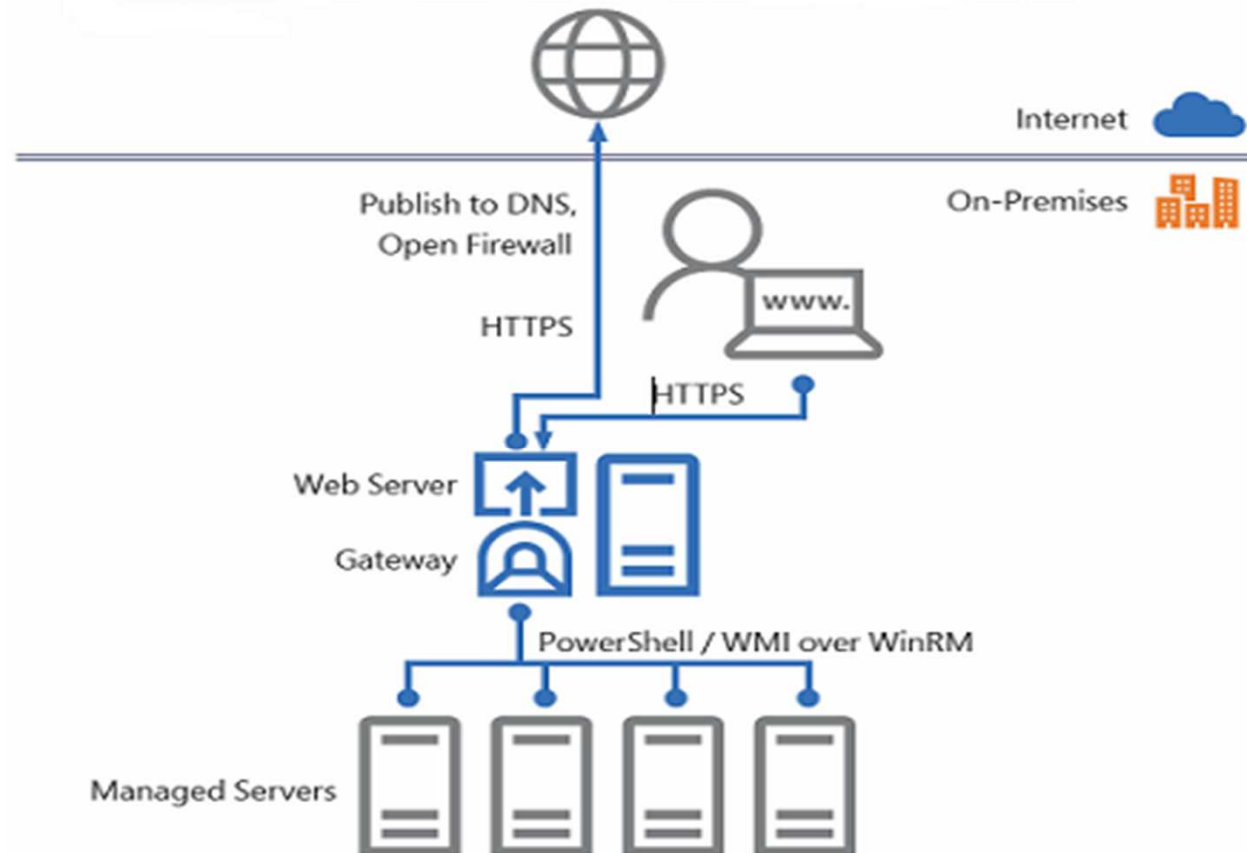
All Functions from the Servermanagers + many more included

Import of existing Server easy via Textfile

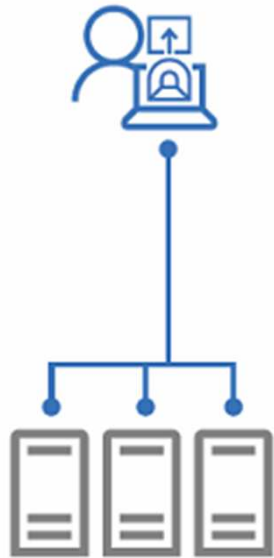
Serveranalysis agentenlees – WMI and PS

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

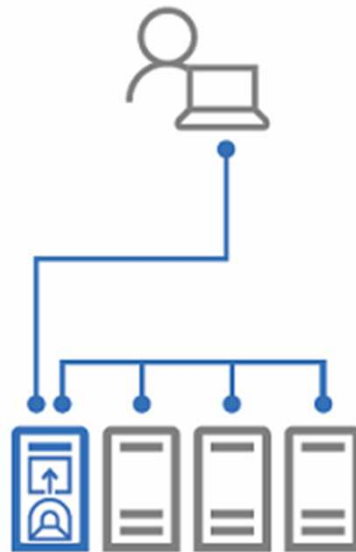
Windows Admin Center - Architecture



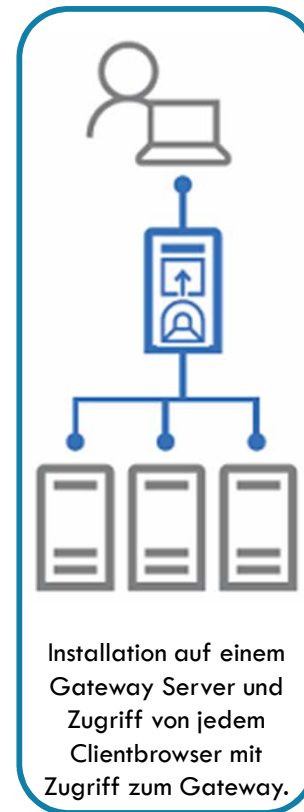
WAC - Installationsoptionen



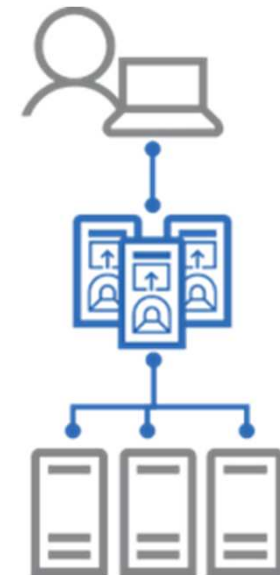
Installation Lokal auf Windows 10 Client. Zum Testen und für kleinere Szenarien.



Installation direkt auf dem Server. Zur Serververwaltung oder für Clusternodes.



Installation auf einem Gateway Server und Zugriff von jedem Clientbrowser mit Zugriff zum Gateway.



Installation auf einem hochverfügbaren 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 – Unterstützte Funktionen

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
- ...



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

Microsoft

Windows Admin Center

Alle Verbindungen








+ Hinzufügen

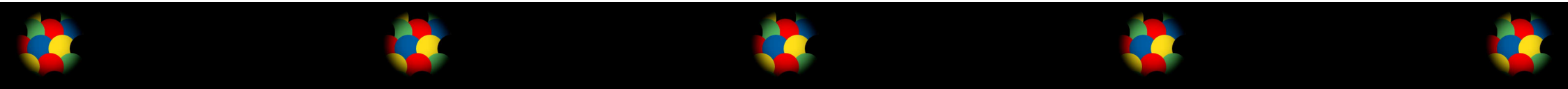
Verbinden

Verwalten als

Entfernen

Tags bearbeiten

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 sccm1.ad.cloudmechanic.de	Server	Nie	AD\DomainRoot
 sql1.ad.cloudmechanic.de	Server	14.1.2018, 00:46:19	AD\DomainRoot



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

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

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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, version 1709 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	Early alpha SDK in private preview 



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 - 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



WAC - Installationsempfehlung

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Management der On-Premise Server via S2S und Azure VMs möglich

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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 via Windows Update 😞



WAC - Links

[Windows Admin Center Documentation](#)

[Windows Admin Center Launch](#)

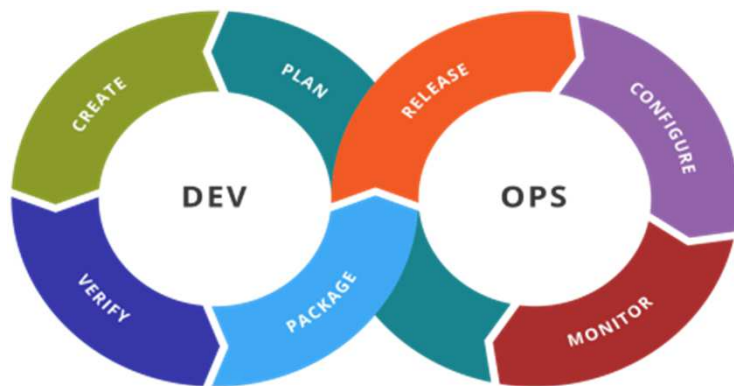
[Windows Admin Center Known issues](#)


[WAC – MSIgnite Theater Session for partner extensions](#)

[WAC – MSIgnite WAC Session recordings](#)

[Azure B- Series Introduction](#)

Thank you for your attention



on  Azure Meetup
BONN

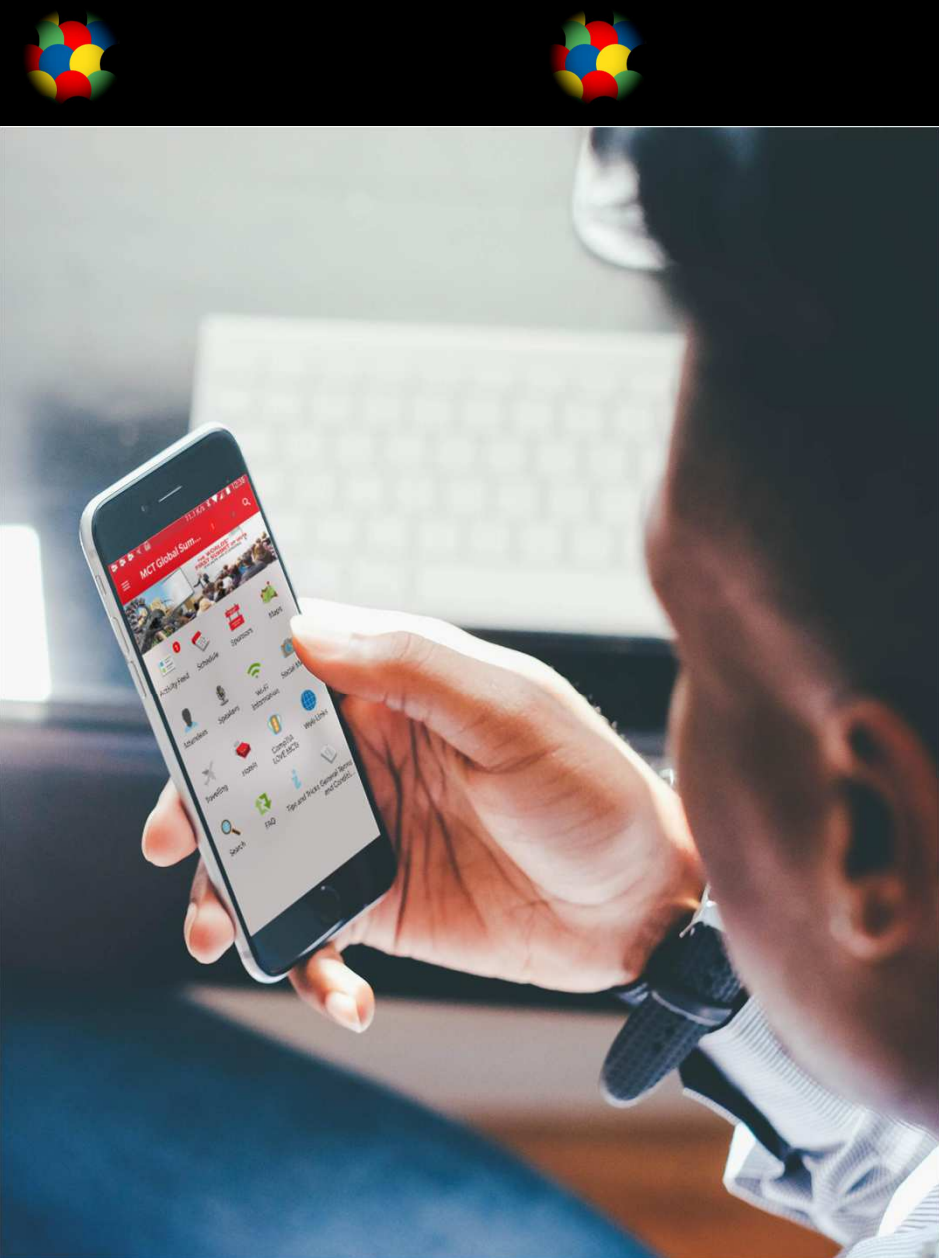
22.11. – Register here www.azurebonn.de





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