

Lift and Shift vereinfacht mit Azure Migrate

Migrate your on-premises datacenter to Azure

Discover, assess and migrate your on-premises applications using Microsoft or third-party tools, or [find an expert](#) to help with your migration. [Learn more](#)



Discover, assess and migrate servers

Discover, assess and migrate your on-premises VMware and Hyper-V virtual machines or Physical servers to Azure.

[Assess and migrate servers](#)



Assess and migrate databases

Assess and migrate your on-premises databases to Azure SQL Database Managed Instance or Azure SQL Database.

[Assess and migrate databases](#)

Assess and migrate web apps to Azure



Assess and migrate .NET and PHP web apps to Azure's Platform-as-a-Service, Azure App Service.

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Migrate on-premises data to Azure



Use the Data Box offline family of products to move large amount of data to Azure.

[Order a Data Box](#)

Wer bin ich ☺

Gregor Reimling

Cloud Architect @ **sepago**®



Gründer des [#AzureBonn](#) Meetups



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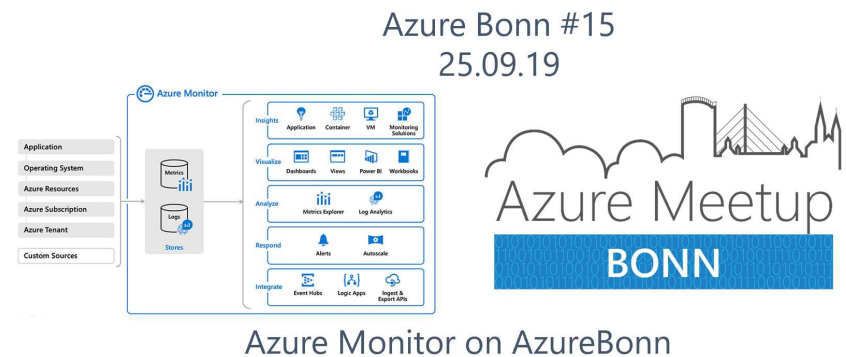
[@gregorreimling](#) | [@azurebonn](#)



www.reimling.eu

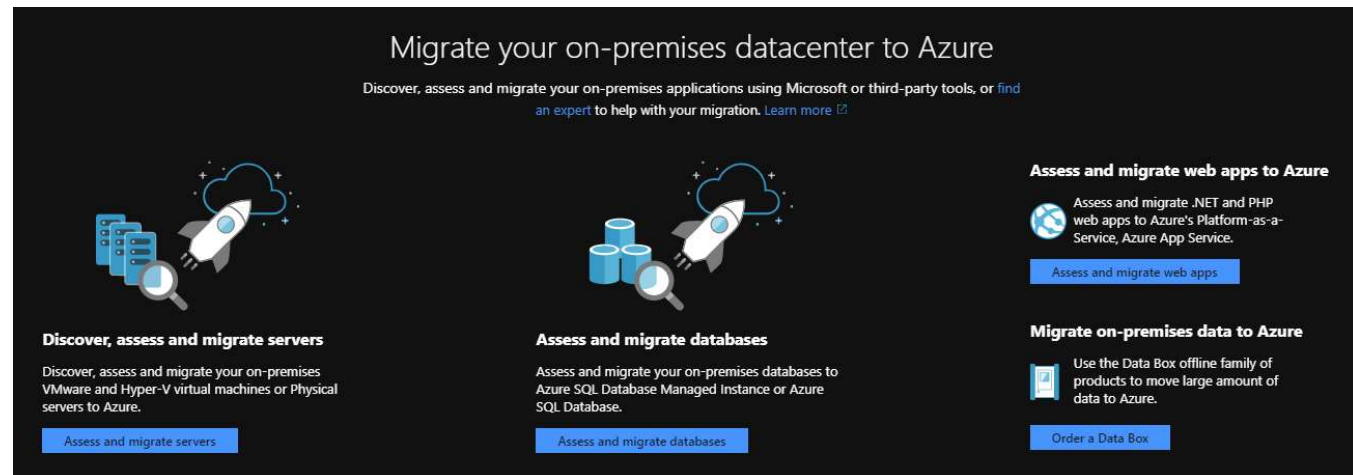


www.neutralien.com




Azure Migrate – Agenda

- Allgemeines
- Funktionen
- Demo & Einrichtung
- Migration
- Fazit
- Links



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Overview of server product lifecycle

End of support means the end of security updates

Product release

End of support



- New features
- Security updates
- Non-security updates

- Security updates
- Non-security updates

[Support.Microsoft.com/lifecycle](https://support.microsoft.com/lifecycle)

SQL Server 2008
and 2008 R2

When will Extended
support ends?

Windows Server
2008 and 2008 R2

When will Extended
support ends?

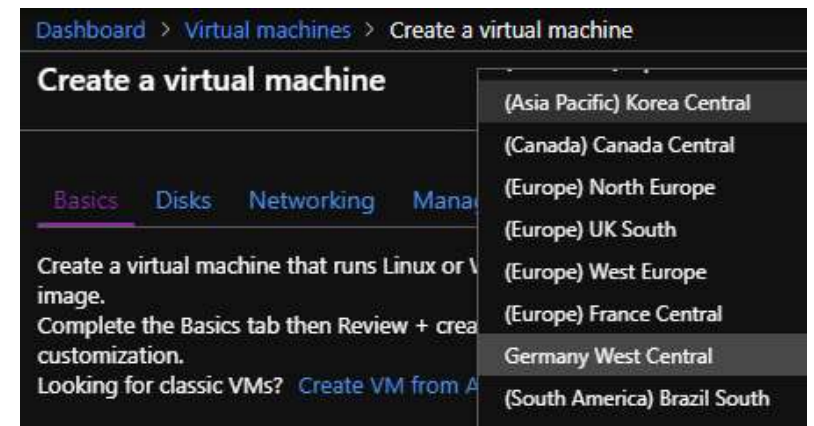
2018

2019

2020

Kurz notiert – Azure Global DE

- [Seit 28.08.19 verfügbar](#)
- 2 Regionen
 - Germany West Central -> Frankfurt
 - Germany North East -> Berlin
- Services :
 - Azure VMs (A, B-, D-, E-, F- and M-Series)
 - SQL Managed Instance
 - Und vieles mehr
- Office 365 & Dynamics voraussichtlich Q1/2020
- [Weitere Details](#)



Azure Migrate – Überblick

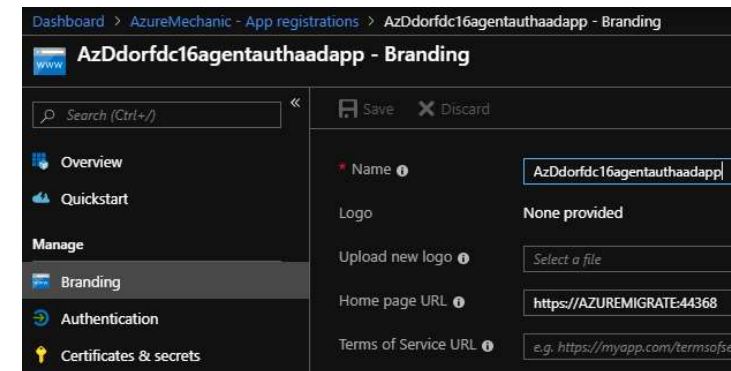
- [Seit 11.07. als Version 2 GA](#)
- Zentraler Service für alle Migrationsprojekte
 - Server Assessment und Migration
 - Database Assessment und Migration
- Kann nun VMware und Hyper-V Umgebungen bewerten
- Benötigt nur eine Appliance pro Hypervisor (keine VM Agents)
- Ergebnisse werden zentral in Azure bereitgestellt
- Servergruppen und Assessment zur Cloud Readiness
- Weitere Anbieter enthalten

Azure Migrate - Funktionen

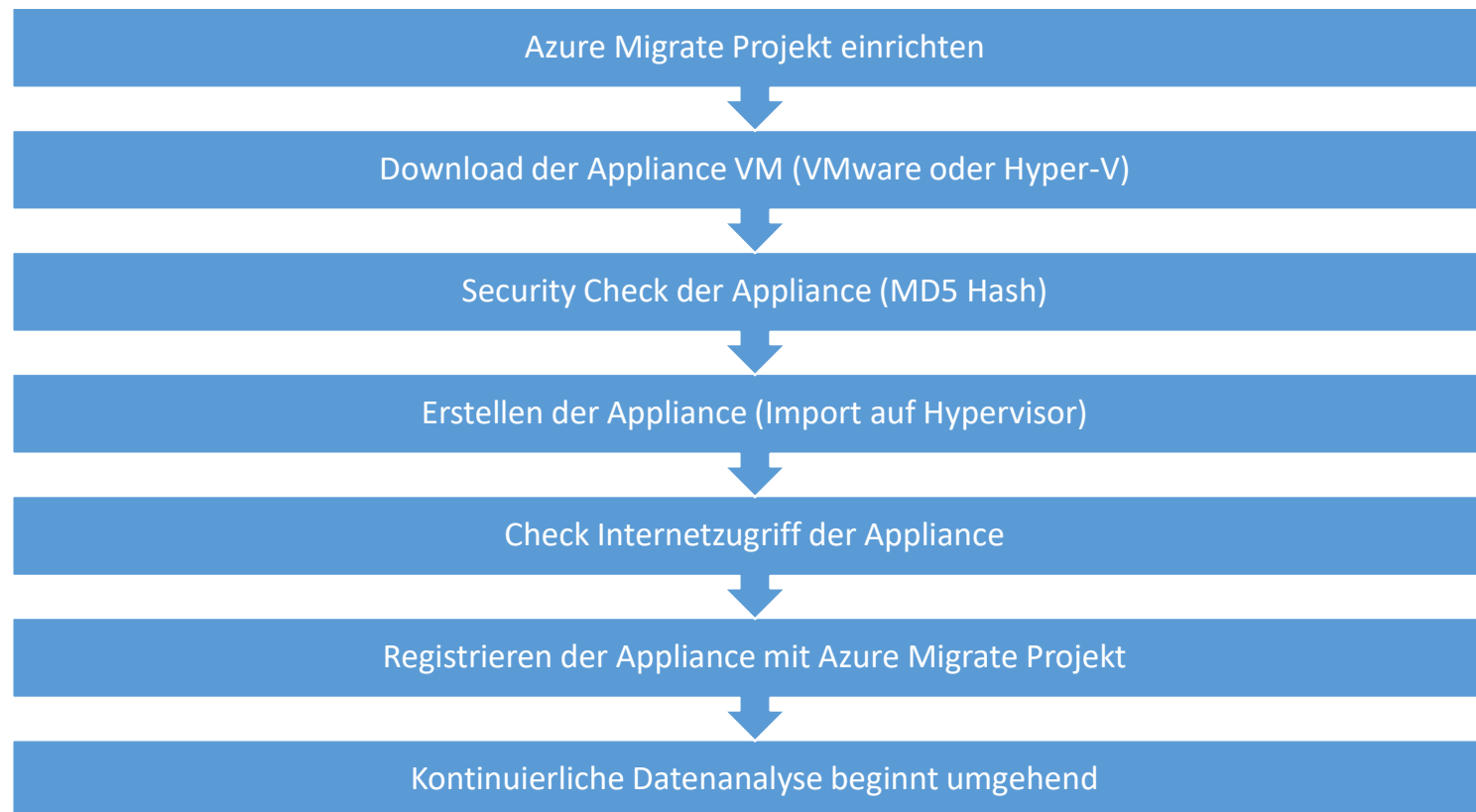
- Integriert Drittanbieter Tools
- Integriertes Bewertungs-Tool
 - Azure Readiness
 - Azure Pricing
- Datenbank Assessment
 - Integriertes Kompatibilitätstool (SQL VM, SQL MI oder Azure SQL DB)

Azure Migrate - Voraussetzungen

- Account mit Berechtigung um Migrate Project zu erstellen
- Account registriert Azure Migrate Appliance in Azure
 - Erstellt 2 Azure AD Apps für Appliance Kommunikation
- Appliance Zugriff via PowerShell Remoting auf Hyper-V Hosts
- [Konfigurationsskript für Hyper-V VMs](#) verfügbar
 - Check PS Version, Admin Rechte, Erstellt User Konto, Aktiviert WinRM und PS Remote
- [Appliance selbst](#)
 - Host min. WS2012R2 | 16GB RAM | 8 vCPU
 - Hyper-V Integration Components on VMs



Azure Migrate - Vorbereitung



Choice of tools

Goal is successful Azure migration: Pick the right tool for the job



We embrace ISV solutions

 **MOVE**

 **Cloudamize**

 **CloudAtlas**

 **BitTitan**

 **appOrbit**

 **CHEF**

 **STRATOZONE**

 **turbonomic**

 **CloudEndure**

 **Zerto**

 **Corent**

 **intigua**

 **stiim**

 **ATTUNITY**

 **DATOMETRY**

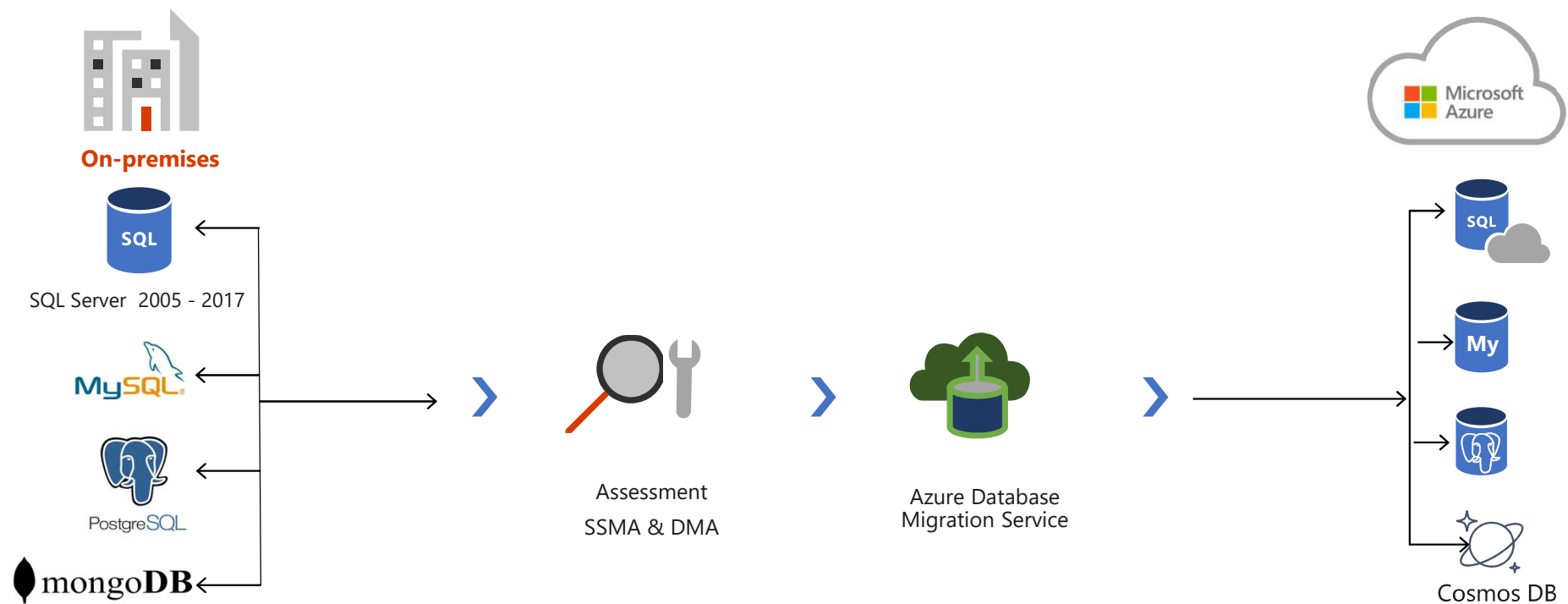
 **MORPHIS**

 **Ispirer**

 **Informatica**

 **QuerySurge**

Migrate DBs using DMS

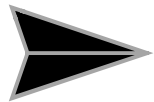


Seamless, end to end solution | Near-zero downtime | Migrate at-scale from multiple sources

Vorgehen



Assess



Migrate

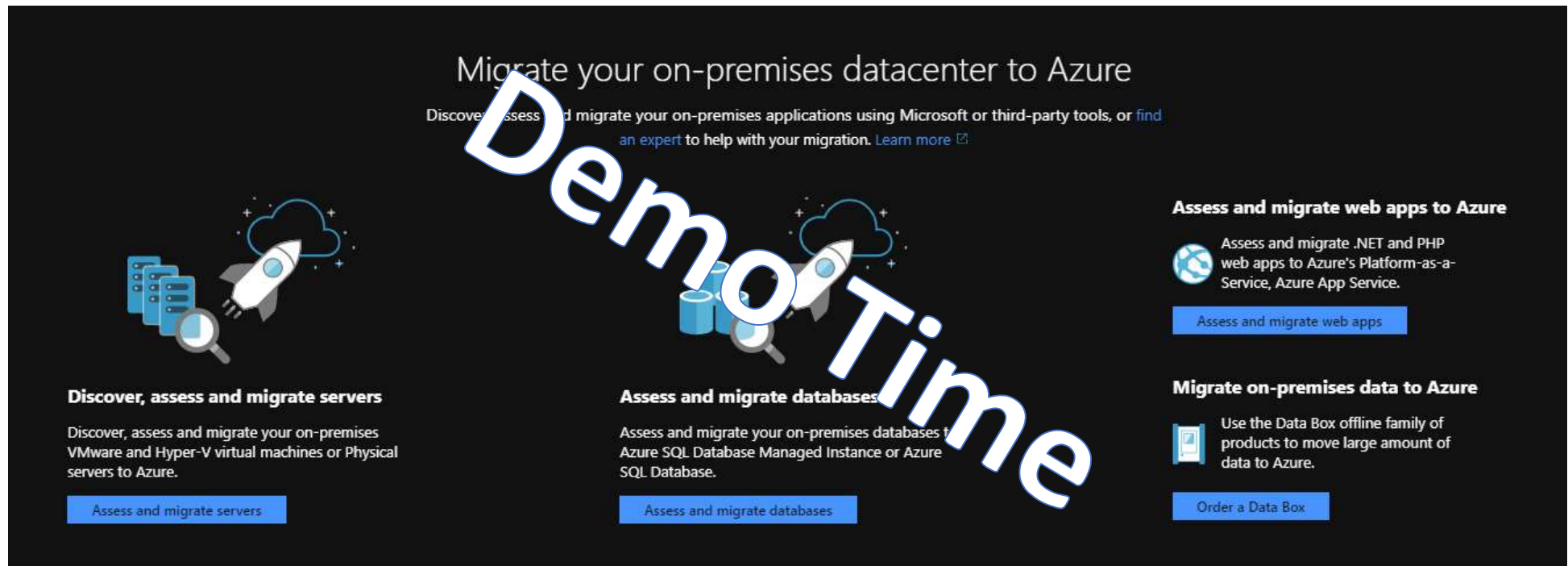


Optimize





Secure and manage

Azure Migrate



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Azure Migrate – Server Migration

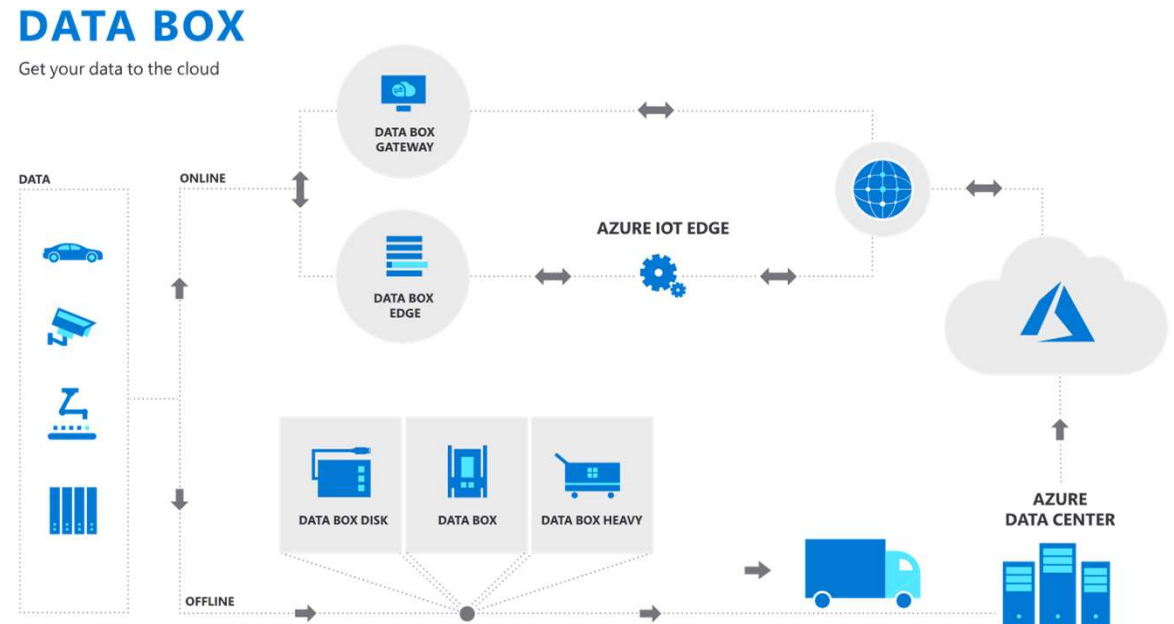
- Basiert auf Azure Migrate Komponenten
- Kann via Azure Migrate Portal ausgeführt werden
- Für Migration zusätzliche Replication Appliance notwendig
 - Configuration Server für Kommunikation zwischen On-Prem und Azure
 - Process Server Replication Gateway
- Mobility Service auf VMs notwendig
- VNET Design muss bereits vorhanden sein

ⓘ Note

Agent-based migration with Azure Migrate Server Migration is based on features of the Azure Site Recovery service. Some requirements might link to Site Recovery documentation.

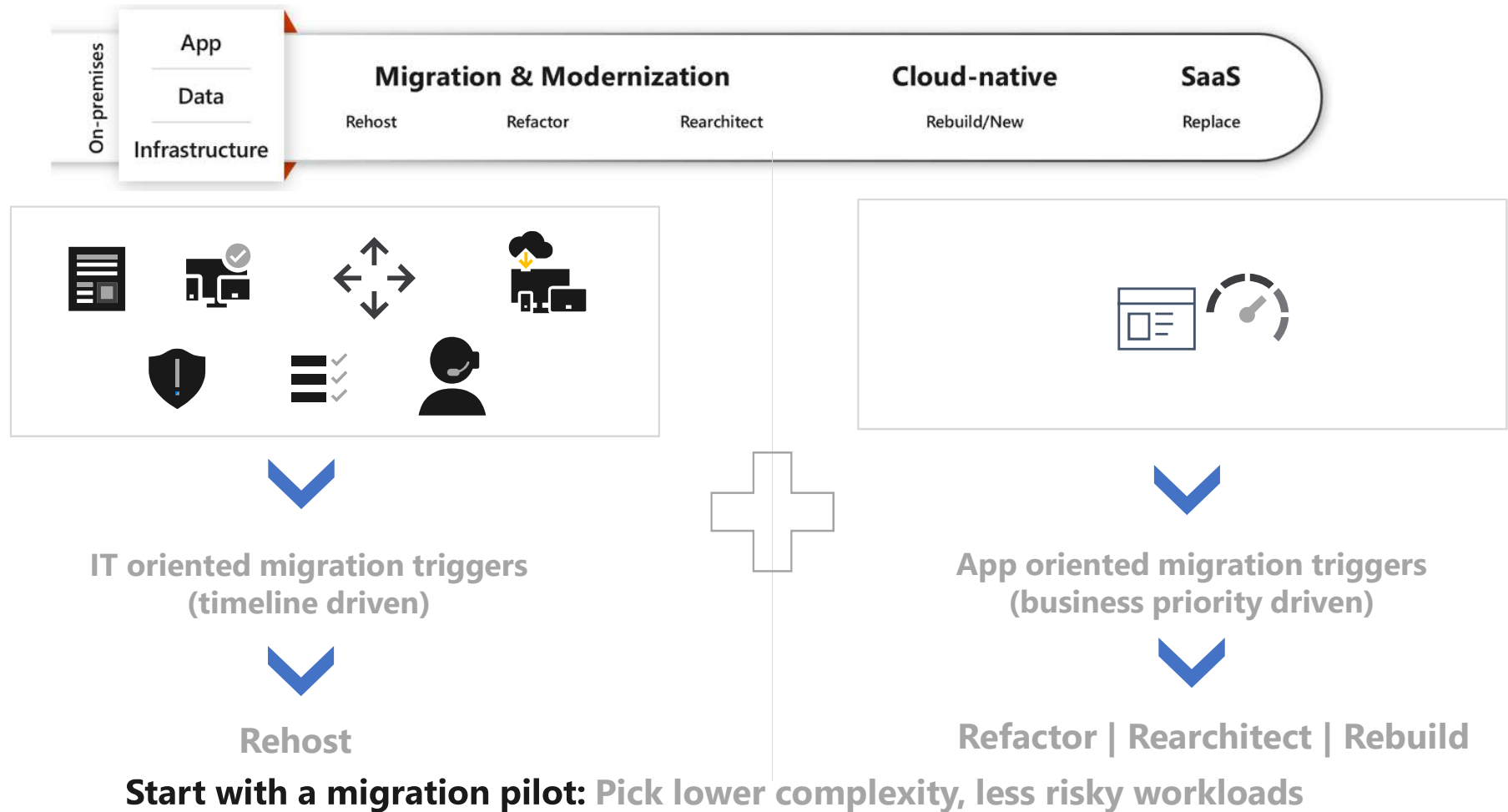
Azure Migrate – Workload Migration

- GA seit Oktober 2018
- Für offline Datentransfer
- Verschiedene Größen
 - 40TB, 100TB, 1PB
- Daten werden immer verschlüsselt



<https://azure.microsoft.com/en-us/services/databox/>

Azure Migrate - Plan migration strategies



Azure Migrate – Licht und Schatten

- Schnell einzurichten, stabile Synchronisierung 😊
- Kosten: erste 180 Tage frei, danach gering 😊
- Zentrales Blade für Migrations Projekte 😊
- Assessment nur als Anhaltspunkt verstehen 😊
- Ohne Änderung erfolgt Server Migration in vorhandene Ressource Group der Appliance 😊
- Derzeit nicht für physische Server geeignet 😞

Azure Migrate – Fazit

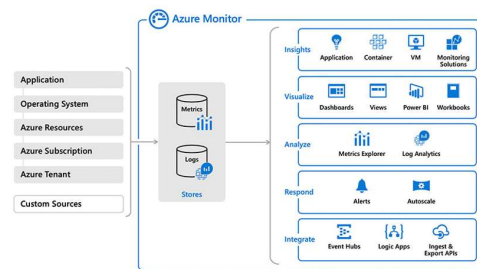
- Sehr gute Eignung als Verwaltungstool für eine Lift & Shift Migration
- Alle Migrationsprojekte zentral in einem Blade vereint
- Offene Plattform für dritt Anbieter
- VMware und Hyper-V lassen sich schnell und einfach bewerten
- Einfache Einrichtung und schnelle Ergebnisse
- Gruppierung und Kostenübersicht
- Nur als erster Schritt zu verstehen, Migrationsprojekt -> Planung notwendig

Azure Migrate – Quellen und Links

- [Azure Blog – Introducing the new Azure Migrate](#)
- [Azure Migrate – Dokumentation](#)
- [Azure Migrate – Assess Hyper-V VMs](#)
- [Azure Migrate – How you get started](#)
- [Azure Migrate – Database Migration Service](#)
- [Azure Migrate FAQ](#)
- [Azure Pricing Calculator](#)
- [Azure TCO Calculator](#)

Thank you!

Azure Bonn #15
25.09.19



Azure Monitor on AzureBonn