VALUEMOMENTUM
Deliver Value. Drive Momentum™

Azure Migrate

Pooja Kokkula
Azure Engineer

Hitesh Janga
Azure Engineer

CORPORATE FACTS

Established in 2000

90+
Customers Served

2300+
Employees

23%
CAGR since inception

Top 10
NA P/C IT Svs Provider
by # of customers

OUR DIGITAL & CLOUD SERVICES

VALUEMOMENTUM
Deliver Value. Drive Momentum.

Customers trust ValueMomentum to rapidly deliver new experiences and stay competitive in today's digital-centric market.*

App Dev

- Rapid App Development
- Cloud App Development
- Mobile App Development

Integration

- Integration Architecture
- API Development
- Service Modernization

Cloud & Infrastructure

- Cloud Platform Adoption
- Cloud Migration
- DevOps & CloudOps

ITSM

- IT Service Management
- IT Asset Management
- IT Operations Management

*To learn more, please log on to ValueMomentum – Digital & Cloud Services

VALUEMOMENTUM

Deliver Value. Drive Momentum

Session Agenda

- Overview on Migration
- Migrate to Azure – Benefits
- Migration - The 6Rs
- Migration- A Simpler Approach
- Azure Migrate
- Azure Site Recovery (ASR)
- Demo

Overview of Migration

- What is a Migration?
- What are the factors considered during Migration?
  - Goal - Reduce cost and increase flexibility
  - Spending model - CapEx to OpEx
  - Where to migrate? - Public, Private or Hybrid
  - How to migrate? - Migration roadmap strategy for enterprise

Migrate to Azure - Benefits

- Highly Available, Reliable and Scalable IT Infrastructure
- Utility Based (Pay-As-You-Go) Billing Model
- Leverage Elasticity to support load bursts
- Azure Hybrid Benefits
  - Save up to 40% on VM licenses
  - Convert or reuse existing licenses
  - 3 Yrs. Security Updates for “Windows 2008 R2” and “SQL 2008 R2”

Windows Server 2008 and 2008 R2
January 14, 2020
SQL Server 2008 and 2008 R2
July 9, 2019

6R's Approach

REHOST

(Lift and Shift)
Zero Code and Min Config Changes

REFACTOR

(Lift and Modernize)
Min Code and Conf Changes

REARCHITECT

(Rewrite/Cloud Born)
Code and Technology change

REPLACE

Migrate to SaaS

RETAIN

Can not be Moved
Technology or Business Challenges

RETIRE

Application is not in use
No Business Value

Migration – A Simpler Approach

Discover

- Automated Workload and Data Discovery
- TCO and ROI Analysis
- Recommendation and Readiness Report

- Azure Migrate
- Data Migration Assistant (DMA)

Migrate

- Effortless Virtual Machine, App and Data Migration
- Dependency resolutions
- Data Migration Strategy

- Azure Site Recovery (ASR)
- Azure Database Migration Service

Optimize

- Continual health, and Performance Management
- Cost Optimization
- Spend vs Budget

- Operations Management Suite
- Azure Cost Management

Removing Barriers to Migrate

A new set of services and offers enables seamless migrations

Azure Migrate

(Free for All Customers)

Azure Database Migration Service

(Free for All Customers)

Azure Cost Management

(Free for All Customers)

Azure Hybrid Benefit

Windows Server

SQL Server

Azure Databox

Large Volume Storage Migration

Rehost - Lift and Shift

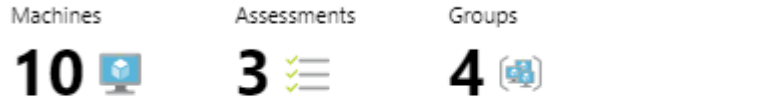
- Avoids the burden of owning on-premise servers
- Avoids the cost and risk of maintaining facilities /Data centres
- Lower your Cost by taking advantage of Cloud Infra
- Scale on Demand
- Zero Code and Min Configuration Changes

Azure Migrate

Azure Migrate - Overview

Provides Guidance, insights and mechanisms for Cloud Migration

- Discover and Assess on-premise Virtual Machines and Servers
  - 1500 VM's can be discovered in single discovery
  - Create multiple Migrate projects. (Up to 20 per Subscription)
- Build-in Dependency Mapping
- Intelligent right-sizing for Azure Virtual Machines
- Compatibility reporting with guidelines for remediating potential issues
- Migrate workloads through seamless virtual machine and server replication



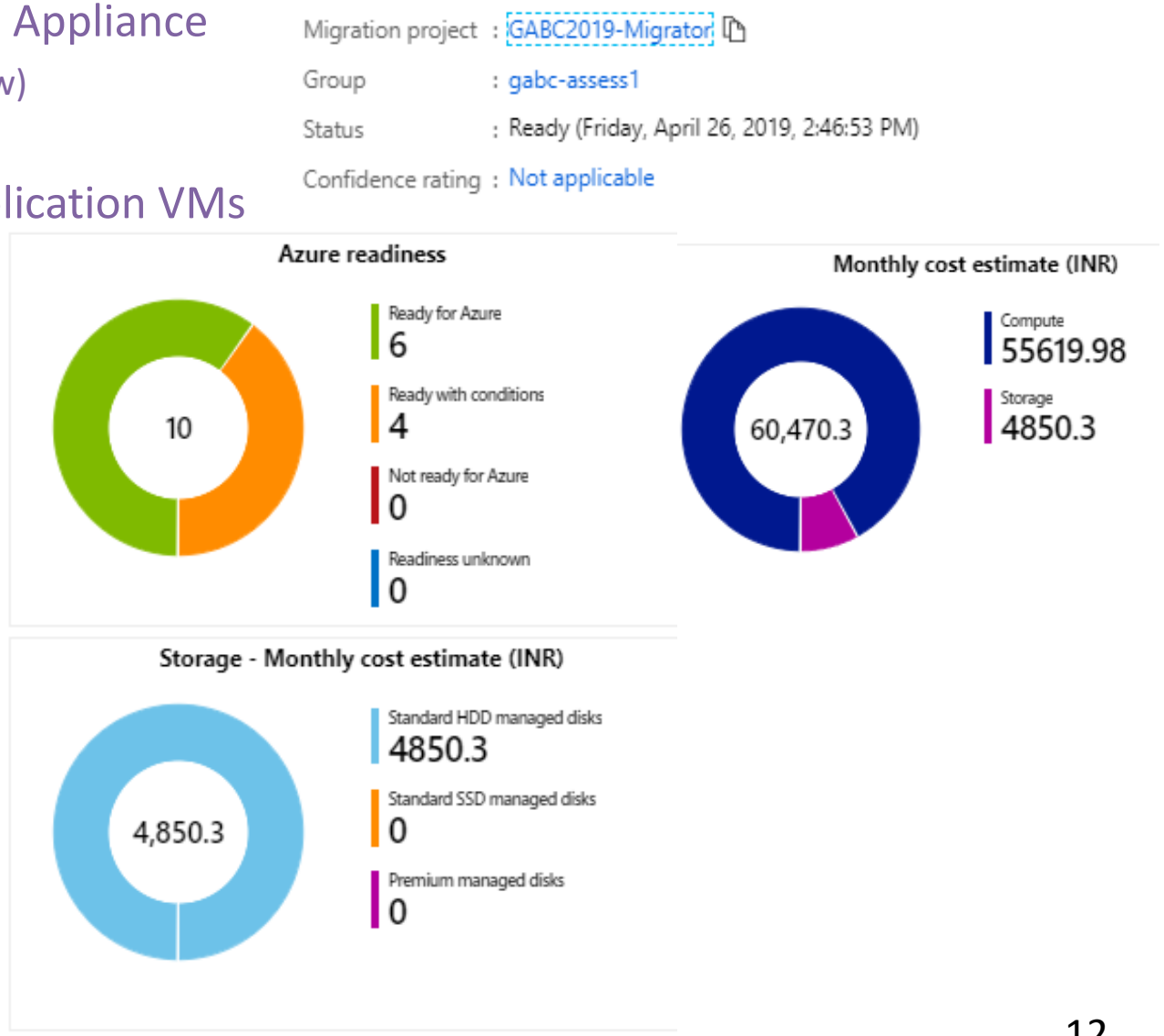
Assessments

NAME	GROUP	STATUS	CONFIDENCE RATING
assessment_4_24_2019_18_30_41	gabc-assess1	Ready (4/26/2019, 2:46:53 PM)	Not applicable
assessment_4_26_2019_13_34_33	uat3	Ready (4/26/2019, 1:37:34 PM)	★★★★★
assessment_4_26_2019_11_37_38	gabc-3 vm assessment	Ready (4/26/2019, 11:38:08 AM)	★★★★★

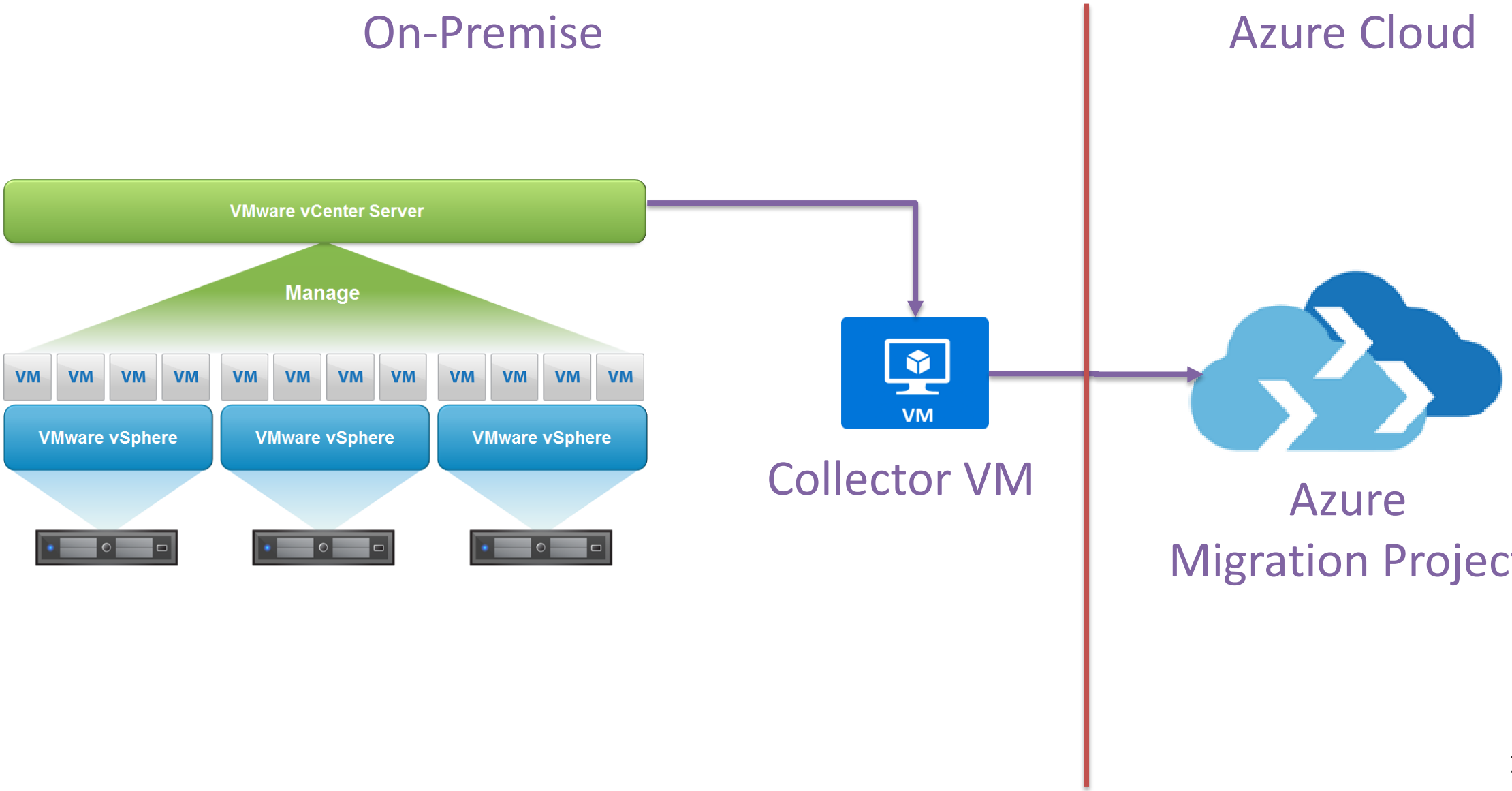
NAME	MEMBER OF	DEPENDENCIES	CORES	MEMORY (MB)	DISKS	STORAGE (GB)	NETWORK ADAPTERS
VM 2008R2	gabc-assess1,uat3	Requires conf...	4	4096	1	40	1
VM-02	gabc-assess1,ga...	View depend...	4	4096	2	60	1
Ubantu Linux	gabc-assess1,ga...	View depend...	1	2048	2	32	1
hitesh-vm01	gabc-assess1	Requires conf...	2	4096	1	40	1
VM-Vcenter	gabc-assess1	Requires conf...	2	4096	1	50	1
hitesh-vcenter a...	gabc-assess1	Requires conf...	2	10240	13	279	1
VMware vCenter ...	gabc-assess1	Requires conf...	2	10240	13	279	1
VM-01	gabc-assess1,ga...	View depend...	4	4096	1	100	1
OVA-VM	gabc-assess1	Requires conf...	8	16384	1	80	1
Linux Cent OS 7	gabc-assess1	Requires conf...	2	2048	1	16	1

Azure Migrate – Discovery & Assessment

- Agentless Virtual Machine discovery through Virtual Appliance
  - Support for VMWARE vSphere and Hyper-V (In Private Preview)
  - Windows Server and Linux VMs
- Dependency mapping to ensure full visibility off application VMs
  - Understand all server and application connections
  - Discover unknown relationships to ensure through migration
- Intelligent right-sizing
  - Recommendations for Azure VM Sizes based on Utilization or
- Cost Analysis
  - Application Group cost analysis for budgeting
  - Region and Currency Specific
  - Enabled for Azure Hybrid Benefits for Windows Servers
- Azure Readiness
  - Deep Assessments of VMs to determine Azure Compatibility
  - Reporting on VM Readiness and Migration recommendations
  - Migration tool recommendations.

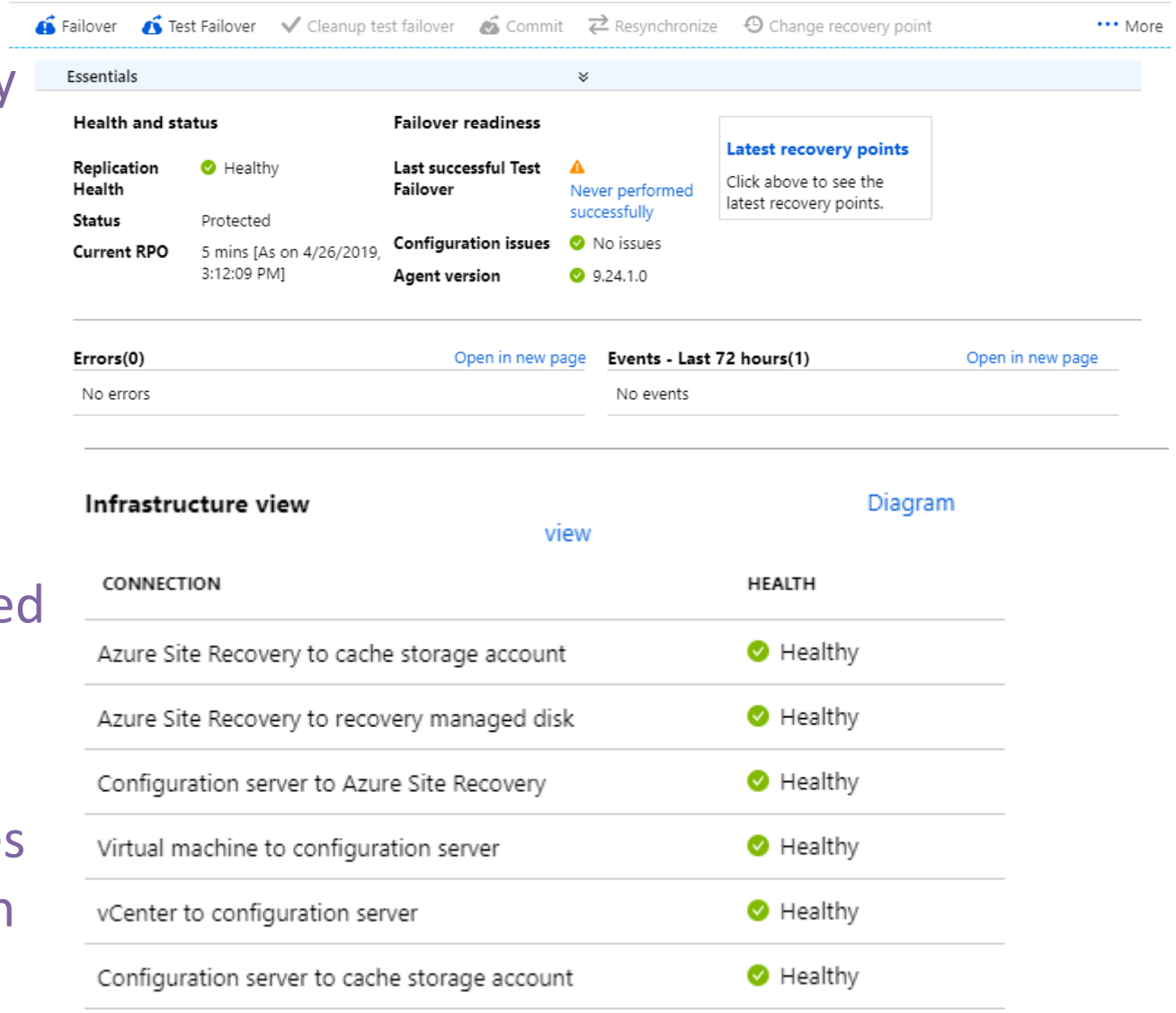


How it Works...


On-Premise
Azure Cloud
VMware vCenter Server
Manage
VM
VMware vSphere
VMware vSphere
VMware vSphere
VM
Collector VM
Azure
Migration Project

Azure Migrate – Replication (ASR)

- Flexible and powerful tool for Site Recovery (DR)
- Supports Replication to Azure within Azure Regions and from On-Premise (VMWare, Hyper-V, Physical).
- Can be used as Migration tool due to the powerful replication capabilities
- Built-in Migration testing to ensure expected results
- Warm Migrations with no long outages
- Advanced Monitoring and Analytics enables you to manage Performance and Utilization
- Built into Azure Migrate*



Azure Partner Tools

Demo

Let’s see in Action…

Azure Migrate – Demo

- Consider a simple application which is hosted on VMWARE (On-Prem) as follows.
  - VM1 (Application) – Windows Server 2012 R2 (IIS 8.x)
  - VM2 (Database) – Windows Server 2012 R2 (SQL Server 2012 R2)
- Create Azure Migrate Project and Perform Discovery and Assessment
- Analyze Dependency Mappings
- Migrate Virtual Machines to Azure using ASR

Azure Migrate - Limitations

- Assess only on-premises VMware Virtual Machines managed by V-Center(version 5.5,6.0,6.5 or 6.7)
- Support for Hyper-V is in preview with production support (using VHD's we can create VM's)
- Assessing Physical servers – Partner tools

VALUEMOMENTUM
Deliver Value. Drive Momentum™

Thank you

Pooja Kokkula
Pooja.Kokkula@ValueMomentum.com

Hitesh Janga
Hitesh.Janga@ValueMomentum.com

© 2016 Microsoft Corporation. All rights reserved. Microsoft, Windows, Windows Vista and other product names are or may be registered trademarks and/or trademarks in the U.S. and/or other countries.
The information herein is for informational purposes only and represents the current view of Microsoft Corporation as of the date of this presentation. Because Microsoft must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Microsoft, and Microsoft cannot guarantee the accuracy of any information provided after the date of this presentation. MICROSOFT MAKES NO WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, AS TO THE INFORMATION IN THIS PRESENTATION.