March 2, 2023
Start : 9h15
Azure Migrate
Diego Lens
Cloud Technology Strategist
Ingram Micro
Level 200
IMC Develop Course
Azure
CLOUD CHAMPION
INGRAM MICRO

1

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Azure
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2

Microsoft

INGRAM MICRO CLOUD

interAct :: making the Data Center work — Ingram Micro Value Division

Diego Lens
diego.lens@ingrammicro.com

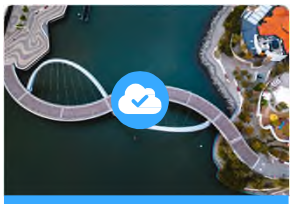
Cloud Solutions Strategist

linkedin.com/in/diegolens

3

Growth Solutions

INGRAM MICRO CLOUD
More as a Service

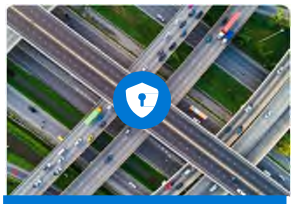


Modern Cloud Platforms

Transform Into the New Norm

Go boldly into the future with innovative infrastructure and platform solutions built for driving profitability and growth through key app modernization, data & insights, and cloud strategies.

- **App Modernization**
  DevOps, Containers, Microservices
  + Infrastructure
- **Data & Insights**
  DB (PaaS), Analytics, Warehousing, AI/ML
  + Infrastructure



Seamless Security

Build your Business with True Peace of Mind

Move forward towards a bright business future with total asset and data protection including seamless sign-on, endpoint security, identity security, and complete security operations management.

- **Endpoint**
  Modern Endpoint, MDR/XDR, Server Security
- **Identity**
  Authentication, Identity & Access Management
- **Security operations**
  Vulnerability Mng, Tier 2 SOC Analytics, SIEM

Connected Workplace

Together We Achieve More

Work together, work smarter and stay productive, from anywhere with our comprehensive suite of collaboration apps, digital experiences, and virtual desktops, designed to help you do more.

- **Collaboration Apps**
  Productivity Suits, conferencing
- **Virtual Desktops**
  Remote Work, Desktop Virtualization, OS
- **Employee Experience**
  Workflow insights, resources, learning

Business Performance

Work at the Speed of Modern Business

Build a fine-tuned business engine to power your performance with our tailor-made technological approach to equip your teams with CRM, ERP software, and imaginative workforce automation.

- **CRM**
  Customer Relationship Management
- **ERP**
  Enterprise Resource Planning
- **Workforce Automation**
  No/low Code, Power Automate

http://bit.ly/ingramcloud https://ingram.cloudchampion.nl https://ingram.cloudchampion.be

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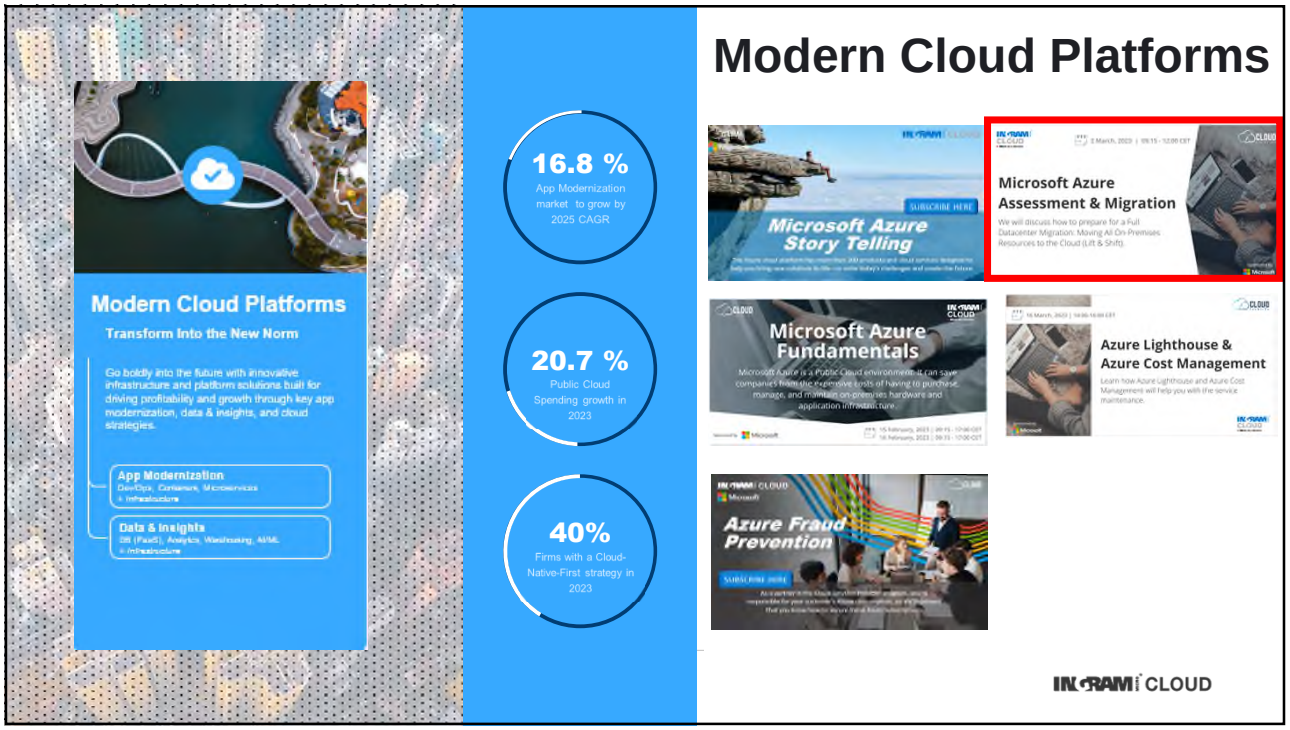
Modern Cloud Platforms
Transform Into the New Norm
Go boldly into the future with innovative infrastructure and platform solutions built for driving profitability and growth through key app modernization, data & insights, and cloud strategies.
App Modernization
Data & Insights
16.8 %
App Modernization market to grow by 2025 CAGR
20.7 %
Public Cloud Spending growth in 2023
40%
Firms with a Cloud-Native-First strategy in 2023
Modern Cloud Platforms
Microsoft Azure Story Telling
Microsoft Azure Assessment & Migration
Microsoft Azure Fundamentals
Azure Lighthouse & Azure Cost Management
Azure Fraud Prevention
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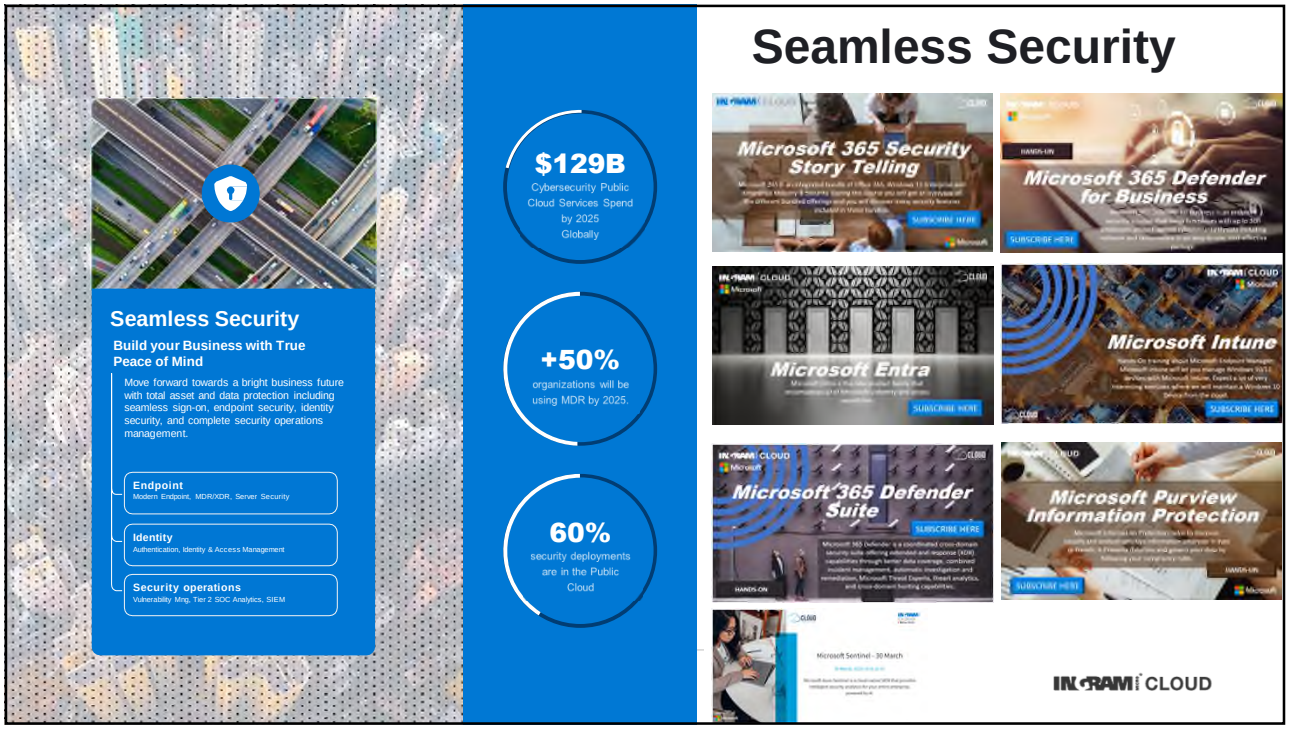
5


Seamless Security
Build your Business with True Peace of Mind
Move forward towards a bright business future with total asset and data protection including seamless sign-on, endpoint security, identity security, and complete security operations management.
Endpoint
Identity
Security operations
$129B
Cybersecurity Public Cloud Services Spend by 2025 Globally
+50%
organizations will be using MDR by 2025.
60%
security deployments are in the Public Cloud
Seamless Security
Microsoft 365 Security Story Telling
Microsoft 365 Defender for Business
Microsoft Entra
Microsoft Intune
Microsoft 365 Defender Suite
Microsoft Purview Information Protection
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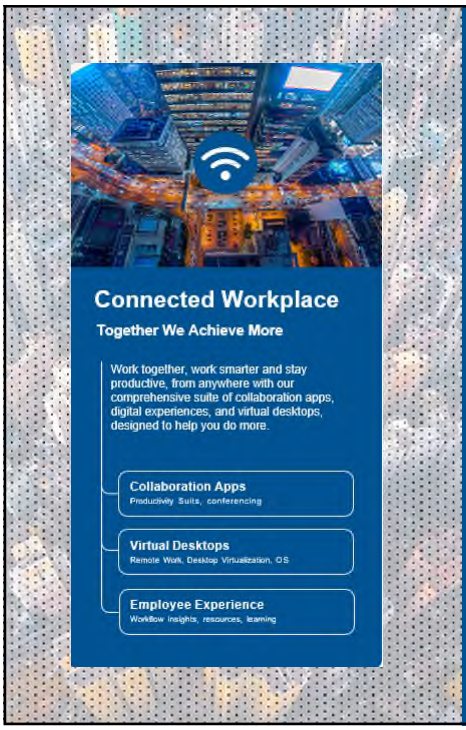
6


Connected Workplace
Together We Achieve More
Work together, work smarter and stay productive, from anywhere with our comprehensive suite of collaboration apps, digital experiences, and virtual desktops, designed to help you do more.
Collaboration Apps
Productivity Suits, conferencing
Virtual Desktops
Remote Work, Desktop Virtualization, OS
Employee Experience
Workflow insights, resources, learning
+21%
Virtual Desktop market CAGR growth by 2030
+50%
Team collaboration software growth by 2030.
57%
Reason for digital investments : Employee Experience
Connected Workplace
Windows 365 and Azure Virtual Desktop Story Telling
Azure Virtual Desktop : Setup a POC
Azure Virtual Desktop : Advanced Topics
EX + CX = TX
Employee Experience + Customer Experience = Total Experience
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7

Business Performance
Work at the Speed of Modern Business
Build a fine-tuned business engine to power your performance with our tailor-made technological approach to equip your teams with CRM, ERP software, and imaginative workforce automation.
CRM
Customer Relationship Management
ERP
Enterprise Resource Planning
Workforce Automation
No/low Code, Power Automate
Business Performance
We want to help modernize and transform your business. With a focus on facilitating your team's needs, we are taking a tailor-made technological approach to personalize what strategies work best for you.
CRM:
CRM technology directly aligns with our growth mindset – at the end of the day, the goal of CRM is to foster and sustain existing and future customer relationships. Through this technology, you can generate multichannel marketing campaigns, nurture sales-ready leads and align sales and marketing with planning and tracking tools that integrate with existing apps and services.
ERP:
In the evolving digital landscape, it is imperative to stay up to date with the latest technologies to move forward. An ERP software suite can help manage day-to-day business processes that push beyond just financial data – discover how you can accelerate your business, grow your customer base and increase your profit margins with ERP.
Workflow Automation:
Workflow Automation is your go-to resource for building custom apps that connect to your existing data and systems, without the need for code. Through low-code platforms, you can build solutions that support workflow automation, AI, secure data access, seamless data analysis and visualization capabilities
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8

Ingram Micro Cloud Enablement 2023

Enablement
http://bit.ly/ingramcloud

Cloud Champion
https://ingram.cloudchampion.be
https://ingram.cloudchampion.nl

Newsletter
http://bit.ly/imc-email

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9

9

Agenda

- DataCenter Migration : Introduction
- Discovery & Assessment
  - Azure Migrate : Server Assessment
- Migrate Workloads
  - Azure Migrate : Server Migration
  - Migration with Veritas
- Migrate Application Database
  - Azure Database Migration Service
- Redesign
- Optimize
  - Azure Cost Optimization – Cloudyn

Azure

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10

DataCenter Migration Introduction

Azure

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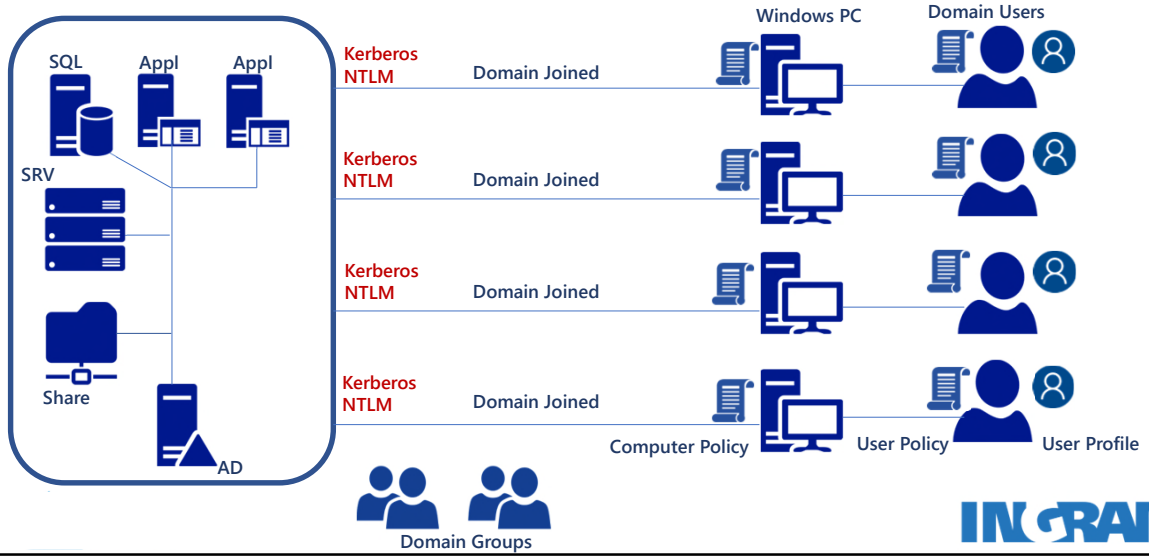
11

On-Premises Applications



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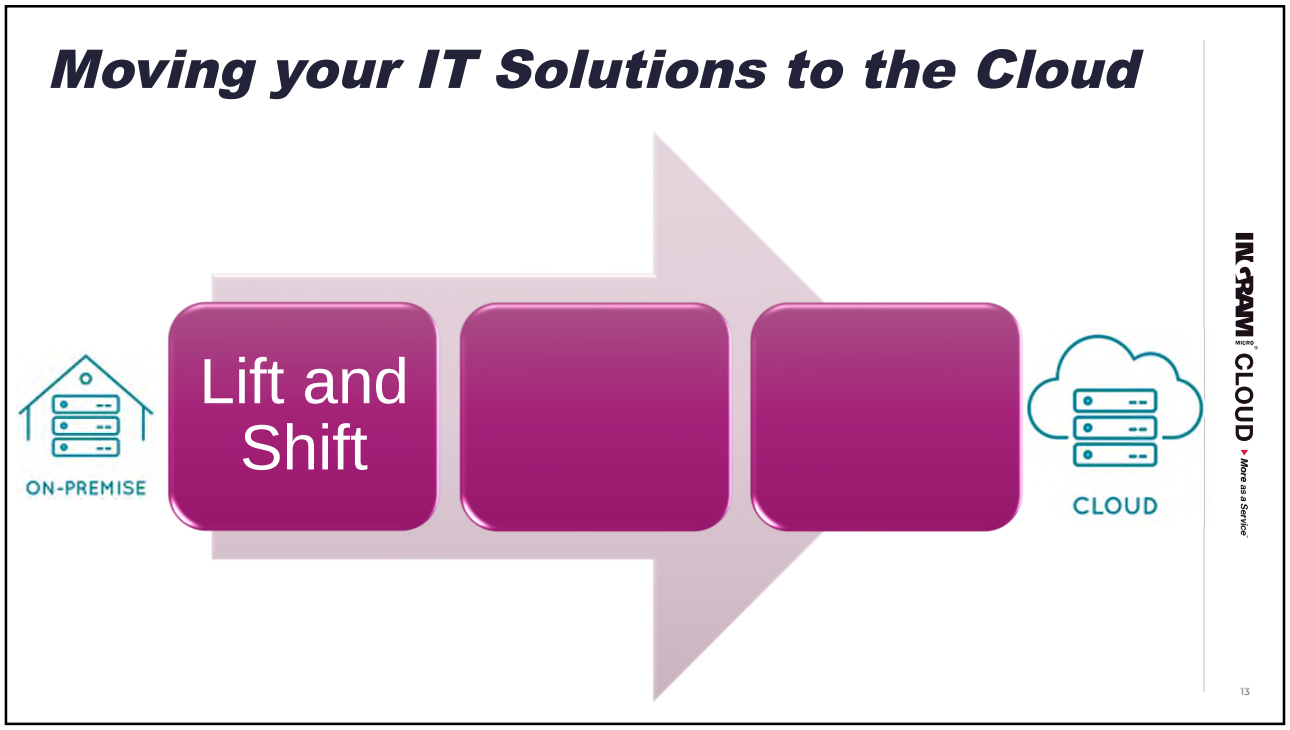
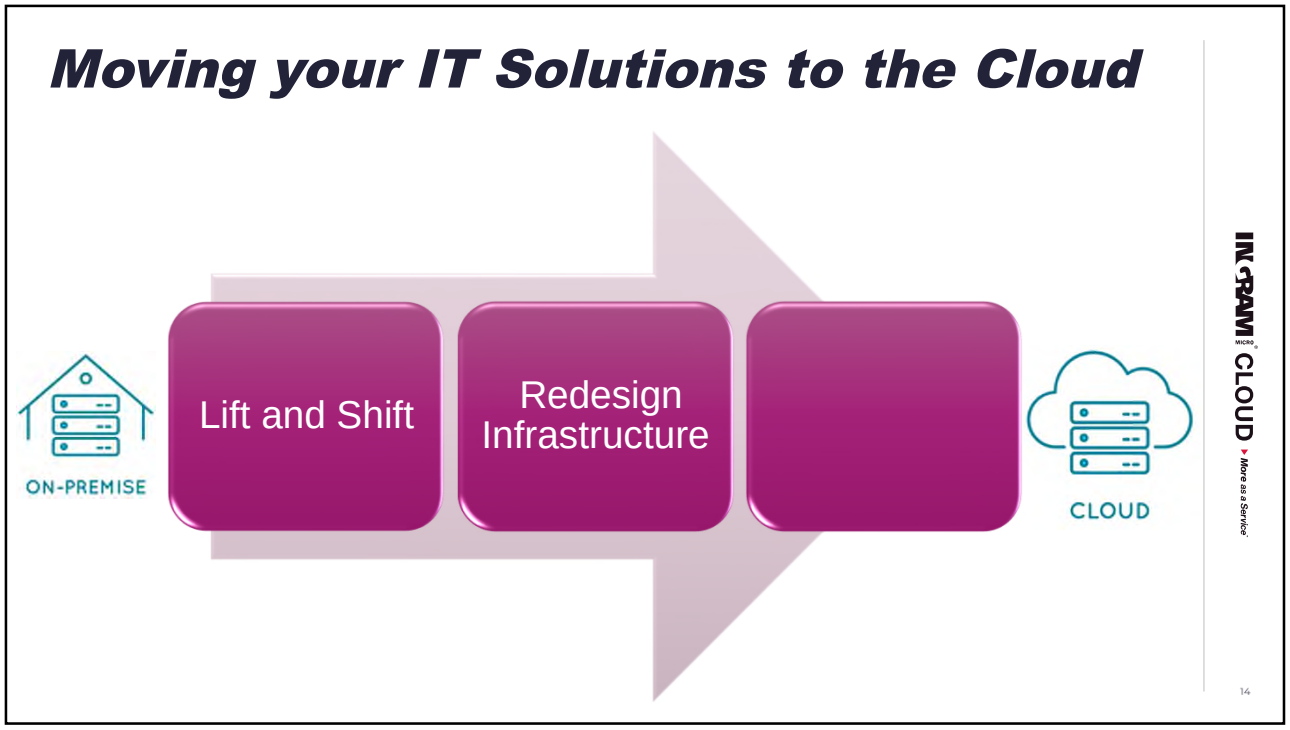
12

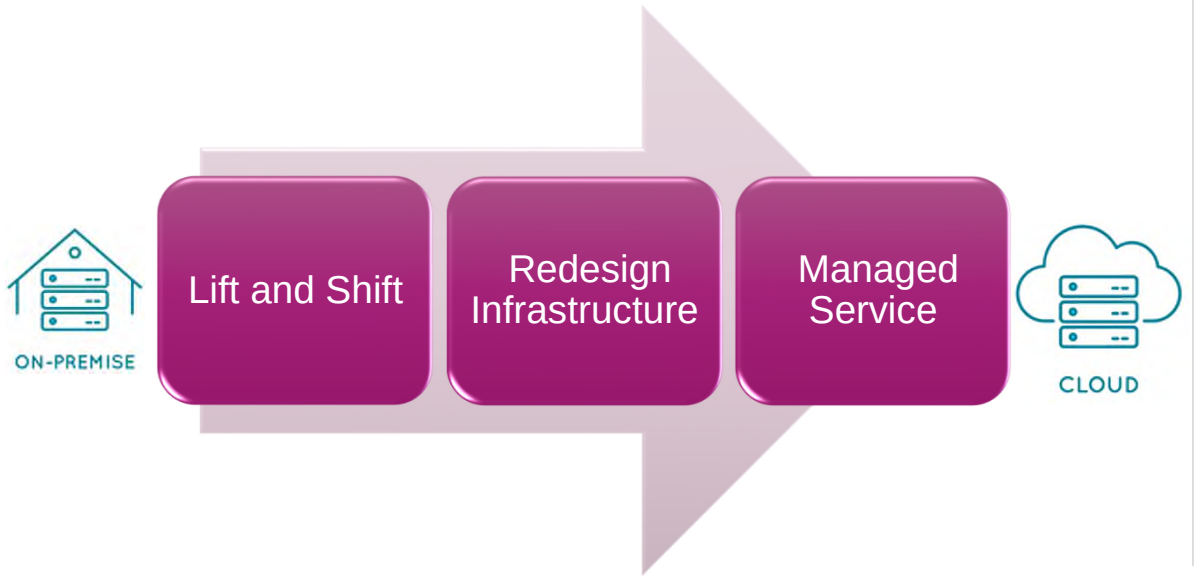

Moving your IT Solutions to the Cloud
ON-PREMISE
Lift and Shift
CLOUD
INGRAM MICRO CLOUD
More as a Service
13

13


Moving your IT Solutions to the Cloud
ON-PREMISE
Lift and Shift
Redesign Infrastructure
CLOUD
INGRAM MICRO CLOUD
More as a Service
14

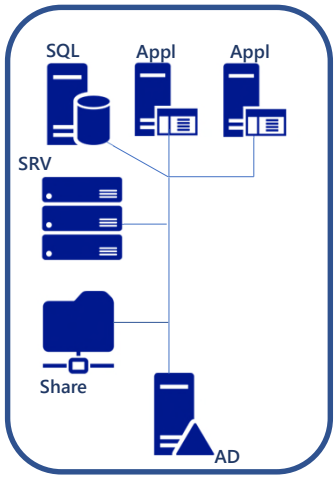
14

Moving your IT Solutions to the Cloud



15

Lift and Shift



Azure

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16

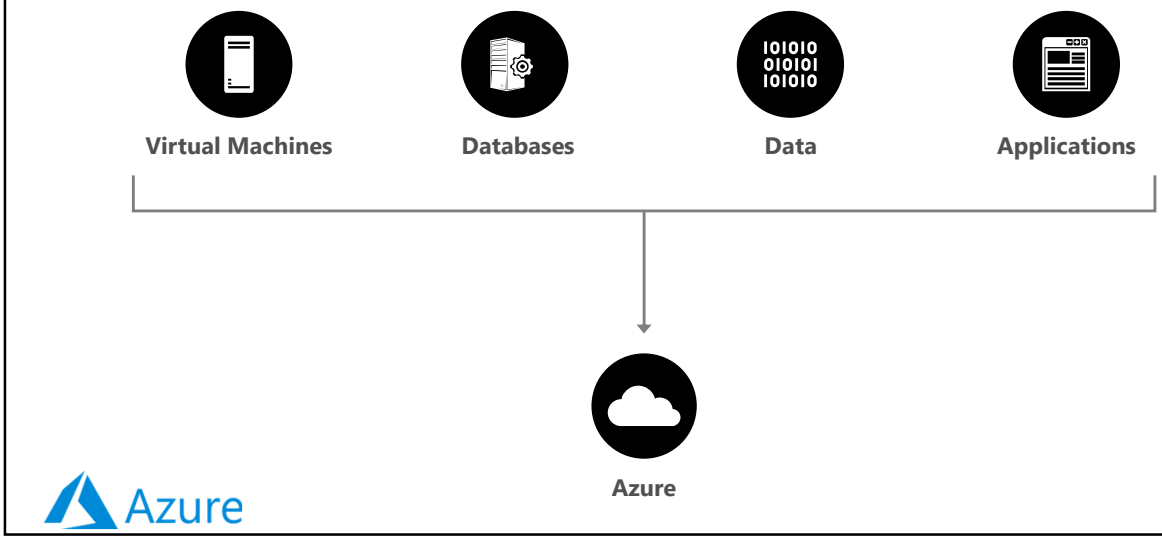
DC Migration Tools Landscape

	Discover	Migrate	Optimize
Microsoft	Limited Preview **Azure Migrate** Database Migration Assistant	Azure Site Recovery Public Preview Database Migration Service	Azure Cost Management
Partners	Cloudamize, TSO Logic, CLOUDPHYSICS, BitTitan, RISC Networks CloudScape, MOVERE, INGRAM CLOUD	CloudEndure, VELOSTRATA, VERITAS, Zerto, VEEAM, VISION SOLUTIONS, 5NINE SOFTWARE	CLOUDYN, docker, CloudAtlas, CloudCheckr

Azure

17

What are Customers looking to migrate to the Cloud?

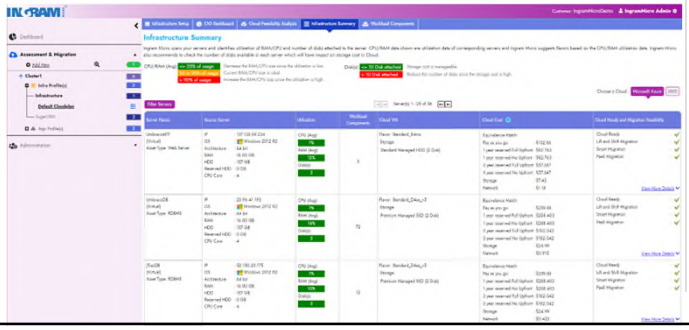


Azure

18

Where Ingram Micro Cloud can help ?

- Current Infrastructure Assessment
- Cloud Infrastructure Design & Sizing
- Cloud Resource Price Estimations
- Help with Resource Migration to the Cloud



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19

19

Azure Migrate

- Azure Migrate : Server Assessment
- Azure Migrate : Database Assessment
- Azure Migrate : Server Migration
- Azure Migrate : Database Migration
- Assess and migrate web apps to Azure
- Migrate on-premises data to Azure

Azure

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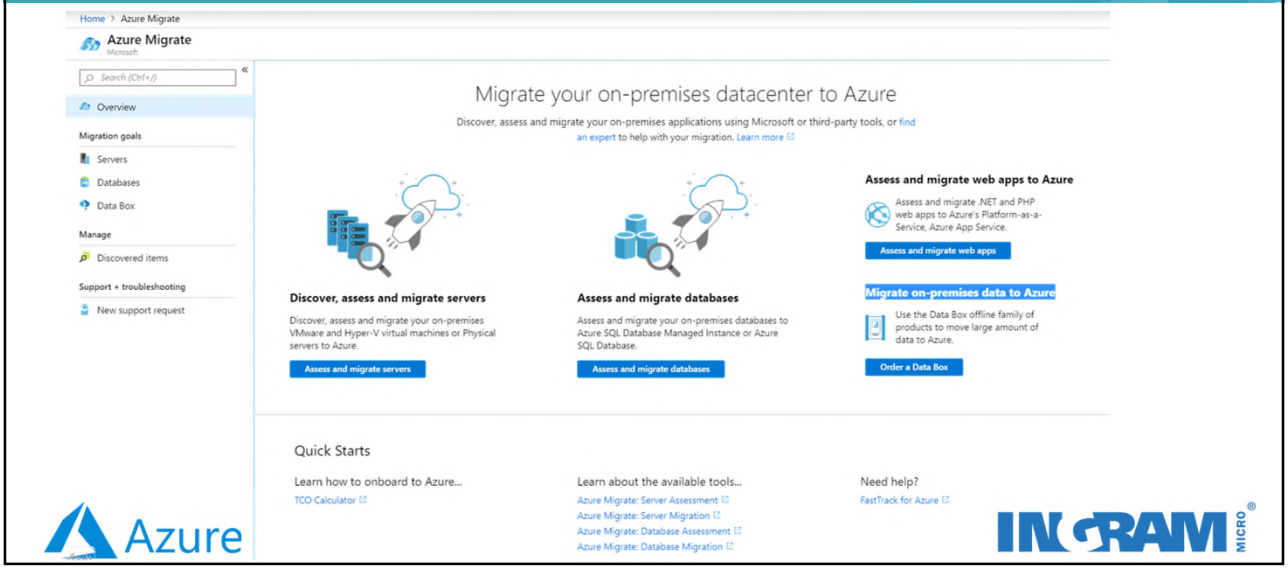
20

Azure Migrate on portal.azure.com



21

Azure Migrate New Features September 2021

What's new in Azure Migrate

08/04/2021 • 8 minutes to read • +5

Azure Migrate helps you to discover, assess, and migrate on-premises servers, apps, and data to the Microsoft Azure cloud. This article summarizes new releases and features in Azure Migrate.

Update (September 2021)

- Discover, assess, and migrate servers over a private network using Azure Private Link. is now in preview in supported government cloud geographies. Learn more
- Support to tag and add custom names to resources for agentless VMware VM migrations using PowerShell.
- Azure Migrate appliance: Option to remove servers from the physical servers discovery list.

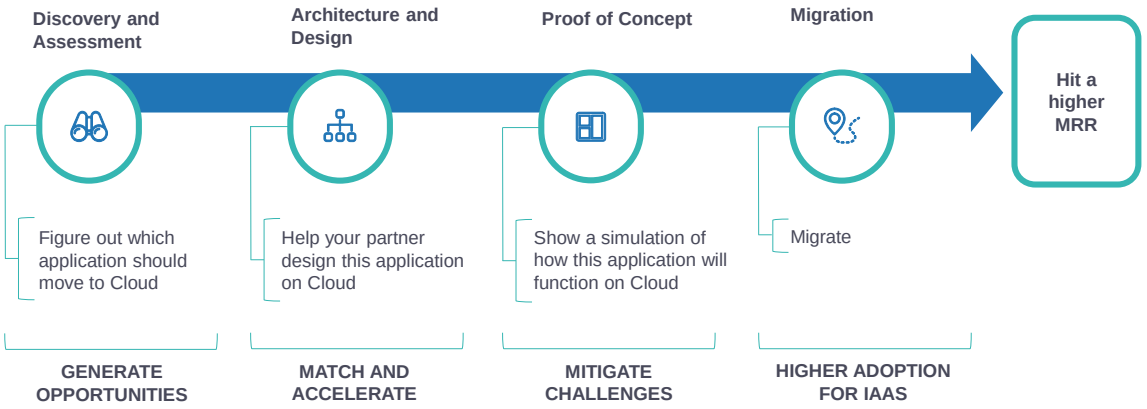
Update (August 2021)

- At-scale discovery and assessment of ASP.NET web apps running on IIS servers in your VMware environment, is now in preview. Learn More. Refer to the Discovery and assessment tutorials to get started.

https://docs.microsoft.com/en-us/azure/migrate/whats-new

22

Ingram Micro Cloud can help !



Azure

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23

Datacenter Migration Process

	Discover (Assessment)	Migrate	Optimize
Microsoft	Limited Preview **Azure Migrate** Database Migration Assistant	Azure Site Recovery Public Preview Database Migration Service	Azure Cost Management
Partners	Cloudamize, TSO Logic, CLOUDPHYSICS, BitTitan, RISC Networks CloudScape, MOVERE	CloudEndure, VELOSTRATA, VERITAS, Zerto, VEEAM, VISION SOLUTIONS, 5NINE SOFTWARE	CLOUDYN, docker, CloudAtlas, CloudCheckr

Azure

24

Azure Migrate

• Azure Migrate : Server Assessment • Azure Migrate : Database Assessment	**DISCOVER**
• Azure Migrate : Server Migration • Azure Migrate : Database Migration • Assess and migrate web apps to Azure • Migrate on-premises data to Azure	**MIGRATE**
• Azure Cost Management	**OPTIMIZE**

Azure

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25

DC Migration Kit

https://github.com/microsoft/dcmkit

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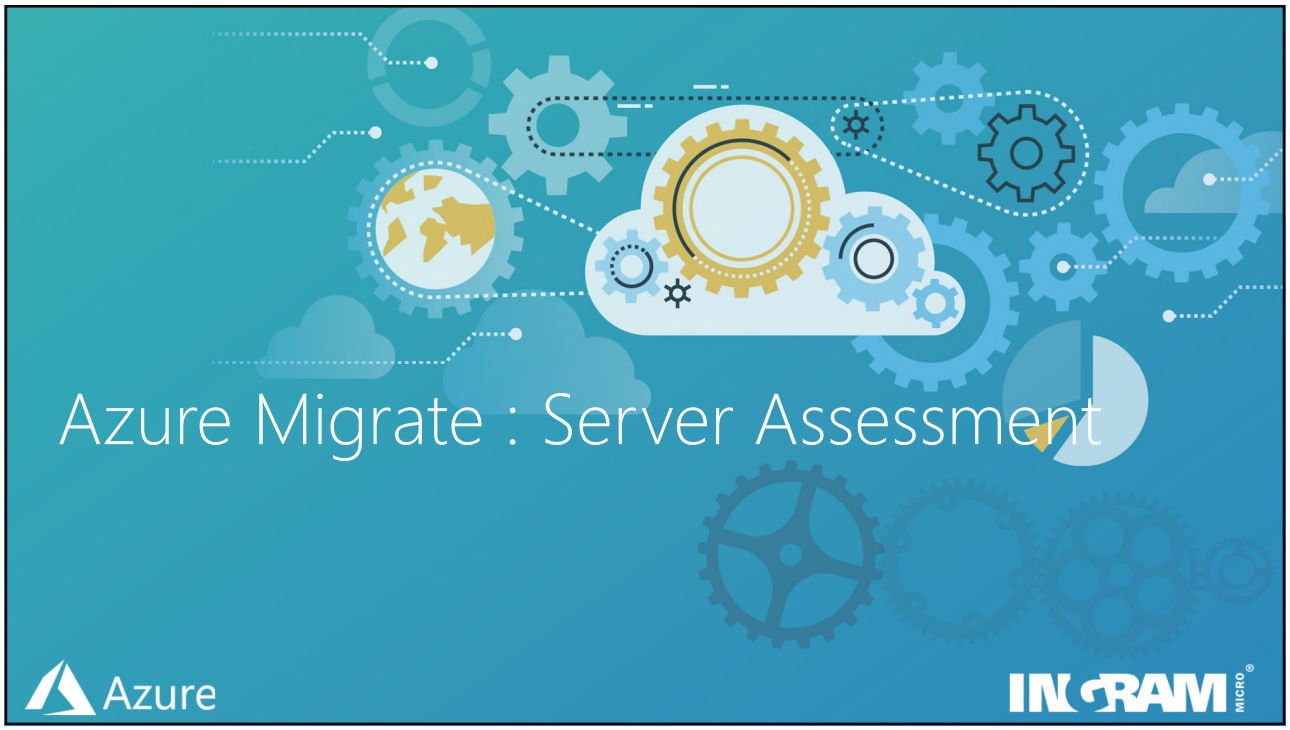
26


Azure Migrate : Server Assessment
Azure
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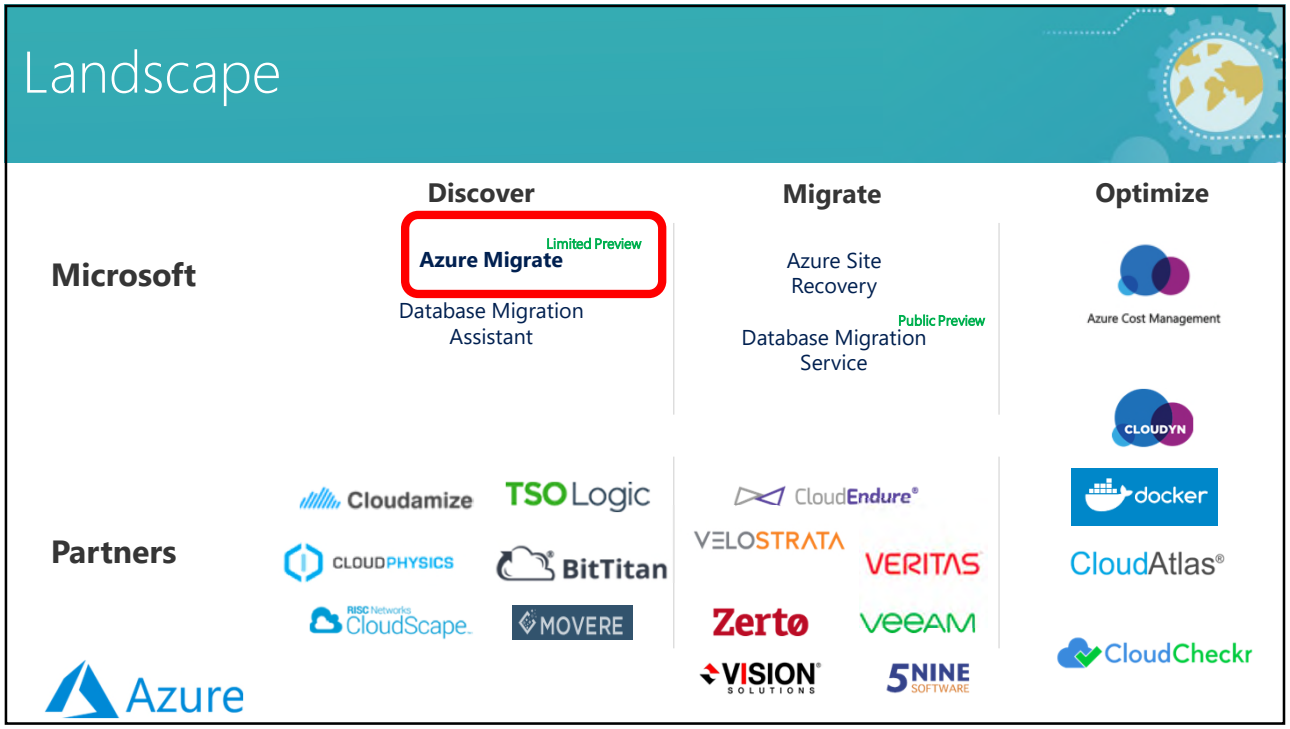
27


Landscape
Discover
Migrate
Optimize
Microsoft
Limited Preview
Azure Migrate
Database Migration Assistant
Azure Site Recovery
Public Preview
Database Migration Service
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Partners
Cloudamize
TSO Logic
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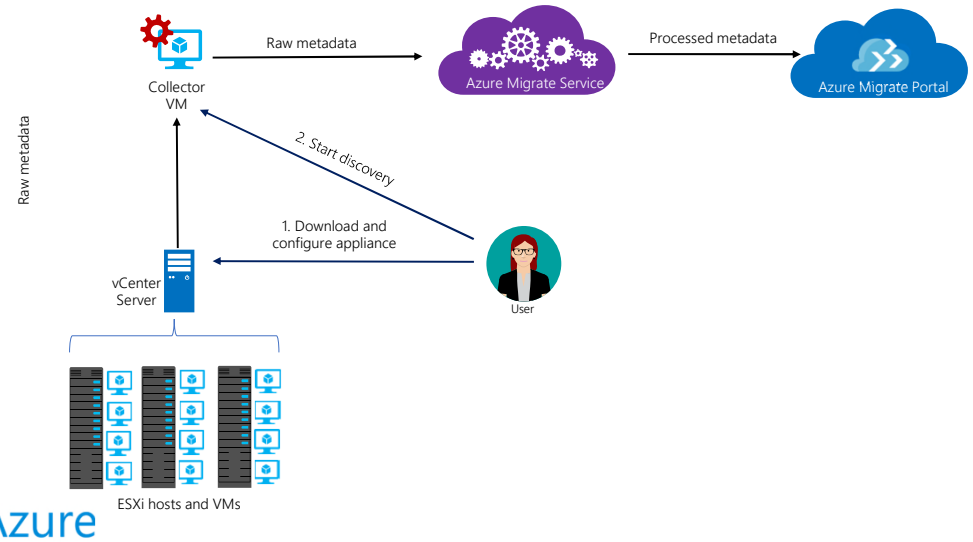
VELOSTRATA
VERITAS
CloudAtlas
RISC Networks CloudScape
MOVERE
Zerto
VEEAM
CloudCheckr
VISION SOLUTIONS
5NINE SOFTWARE
Azure

28

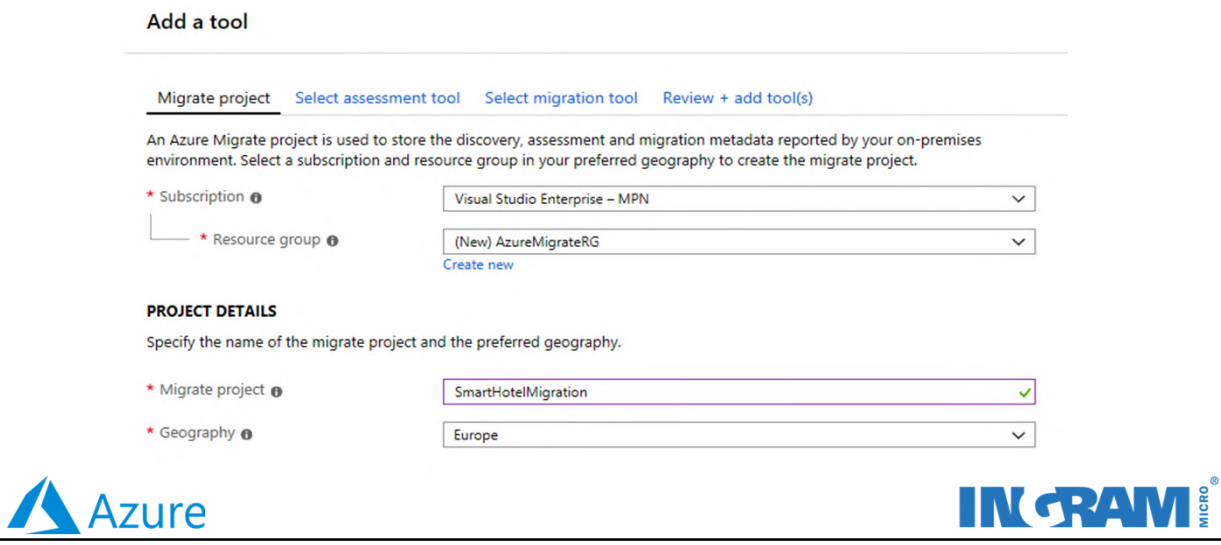
How does it work ?



Azure

29

1a. Create an Azure Migrate Project



Azure

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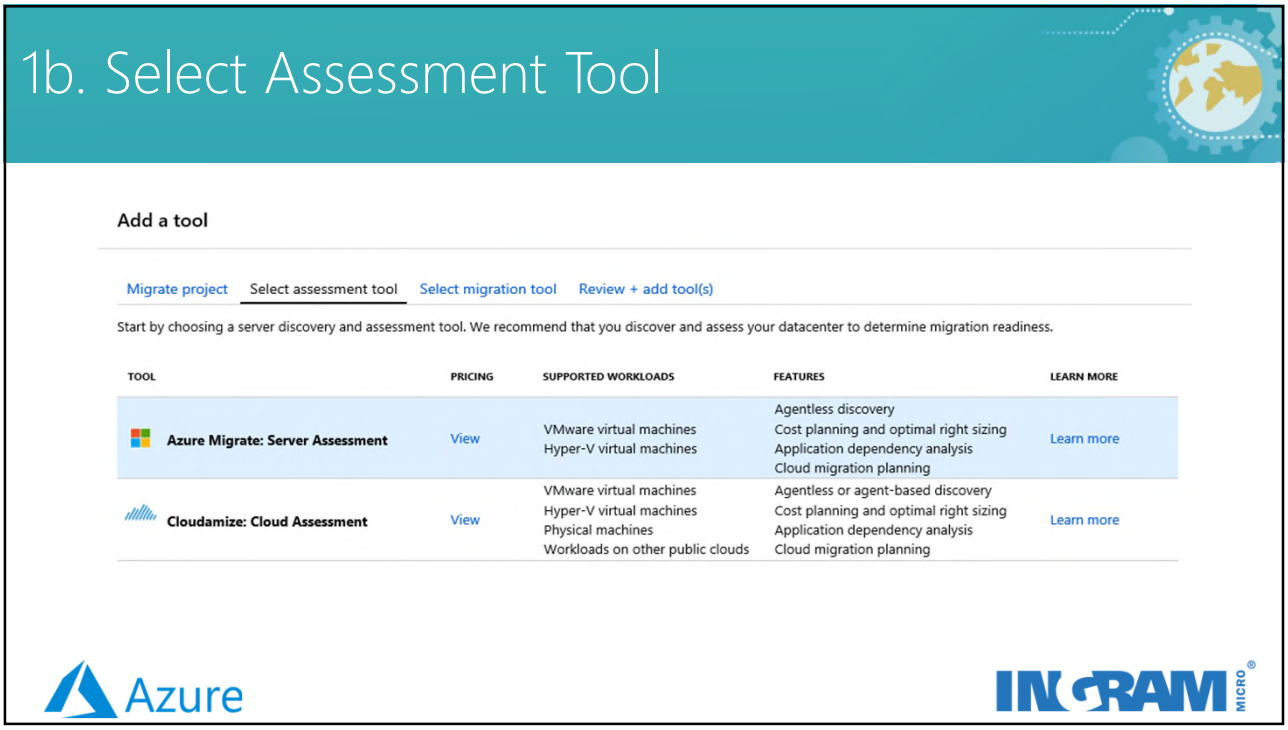
30

1b. Select Assessment Tool



Azure

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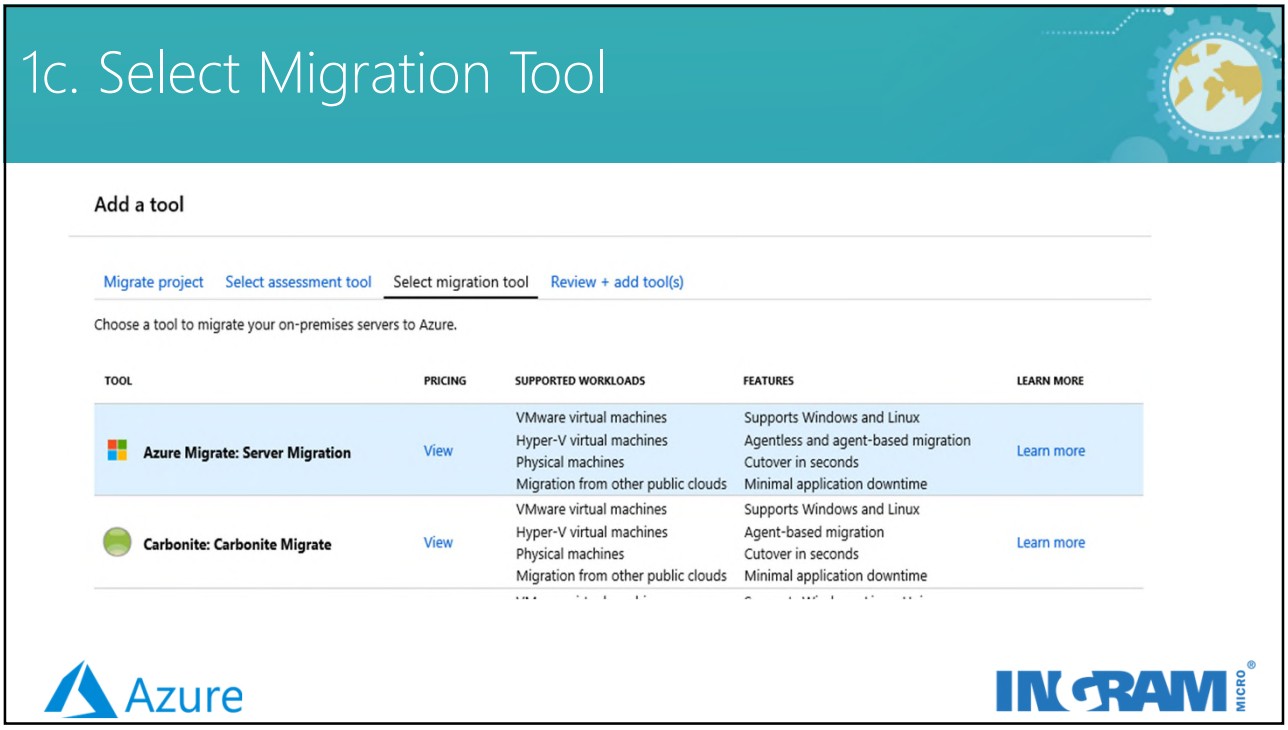
31

1c. Select Migration Tool



Azure

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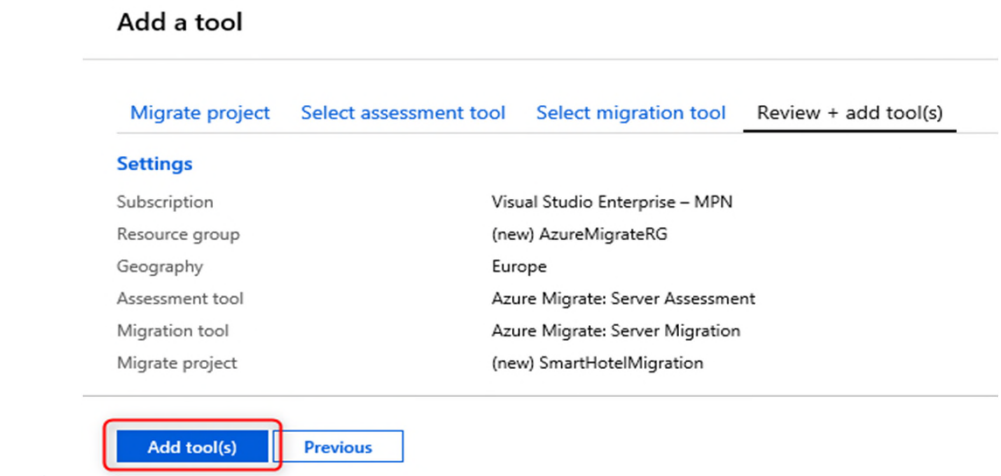
1d. Review & Add Tool



Azure

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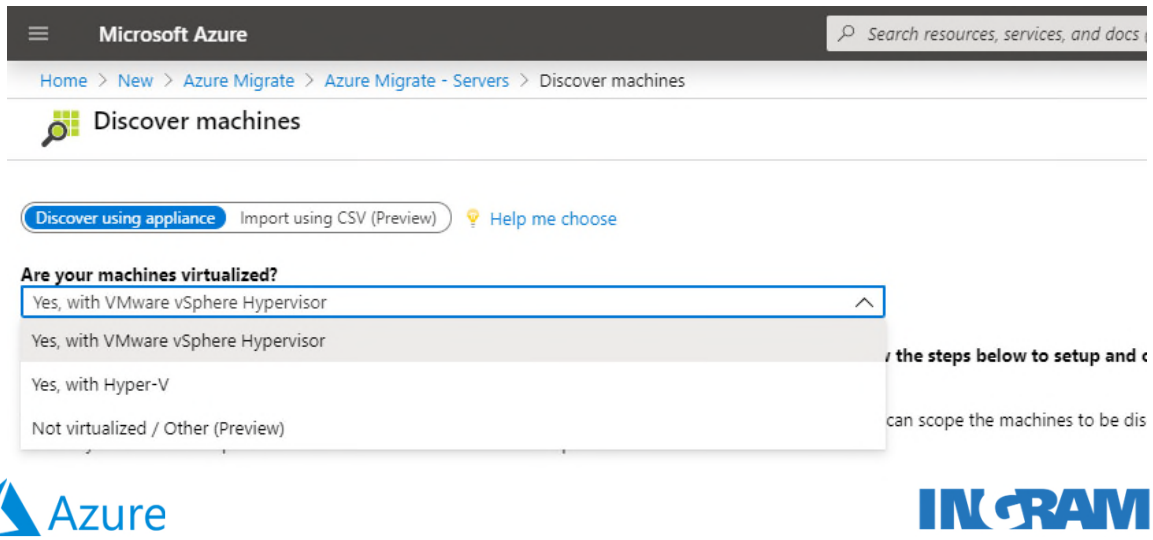
2. Physical – Vmware VM's – Hyper-V VM's



Azure

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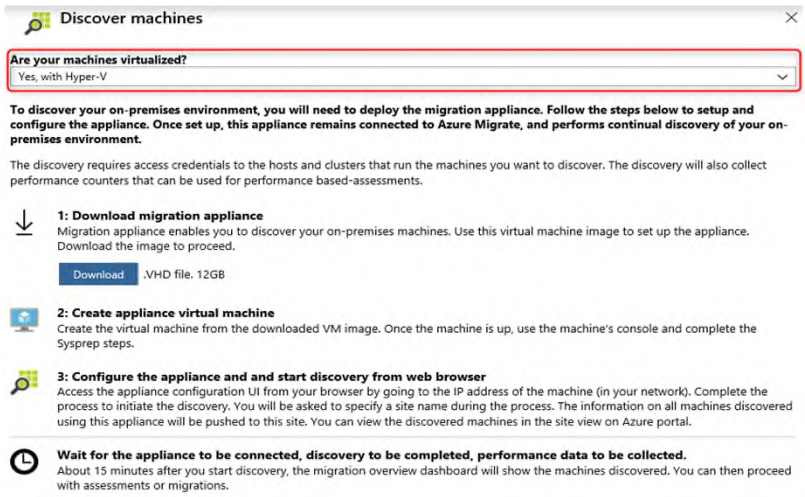
2a Deploy the Azure Migration appliance



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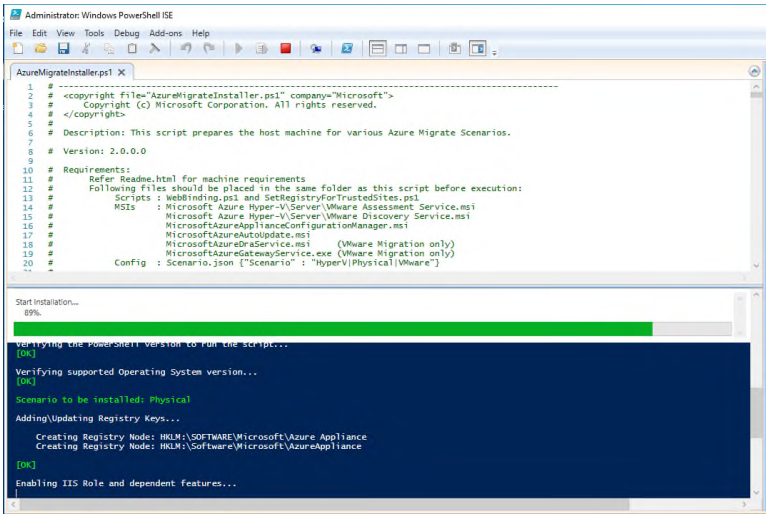
2b. Deploy Azure Migrate Software (Physical)



Azure

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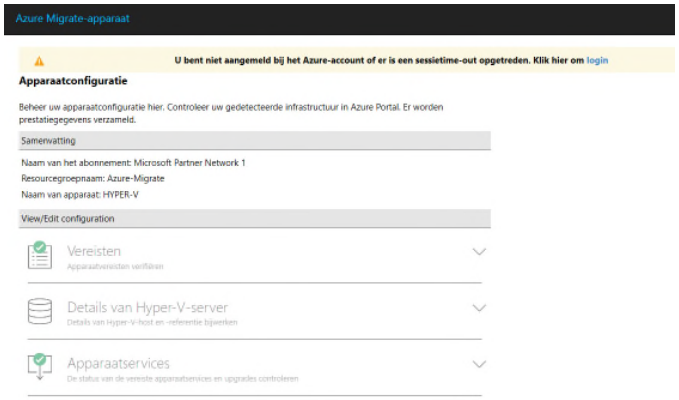
36

3. Connect to the Appliance Portal Page

- https://Appliance_IP_Address:44368



Azure

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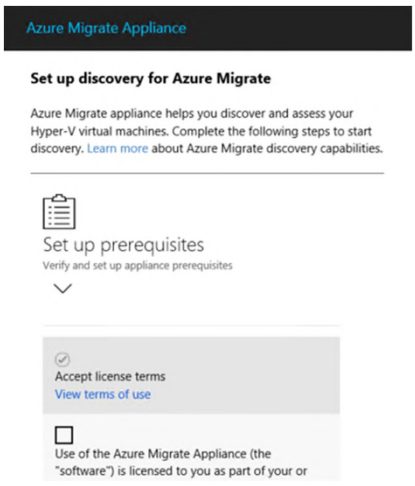
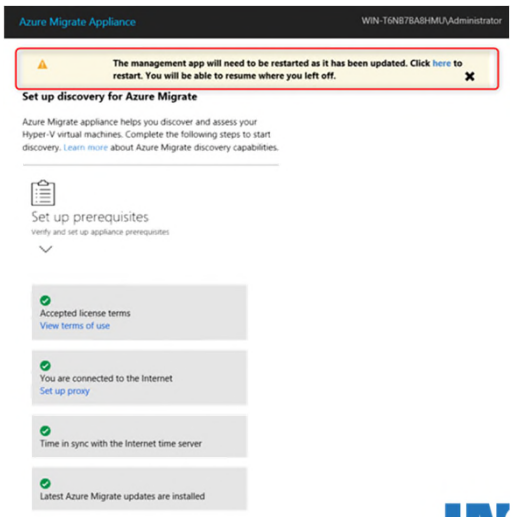
3a. Configure the Azure Migrate Appliance





Azure

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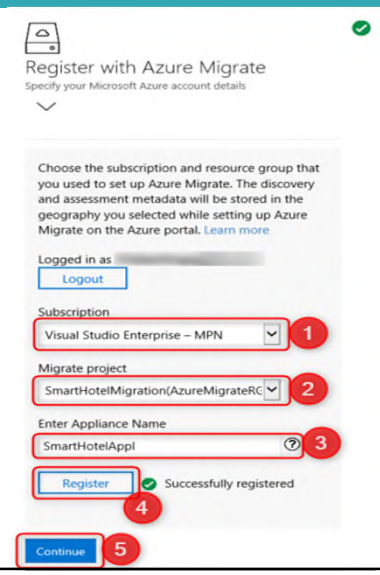
38

3b. Register with Azure Migrate



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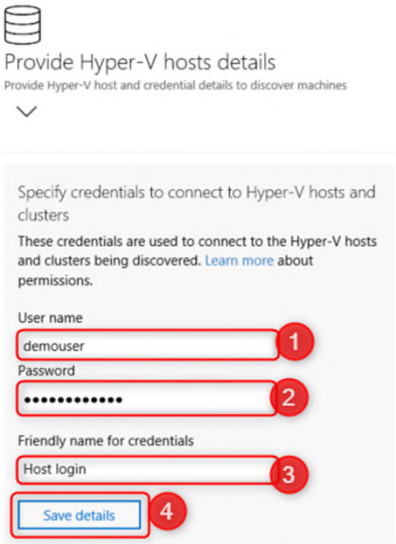
39

3c. Provide Hyper-V host details



Azure

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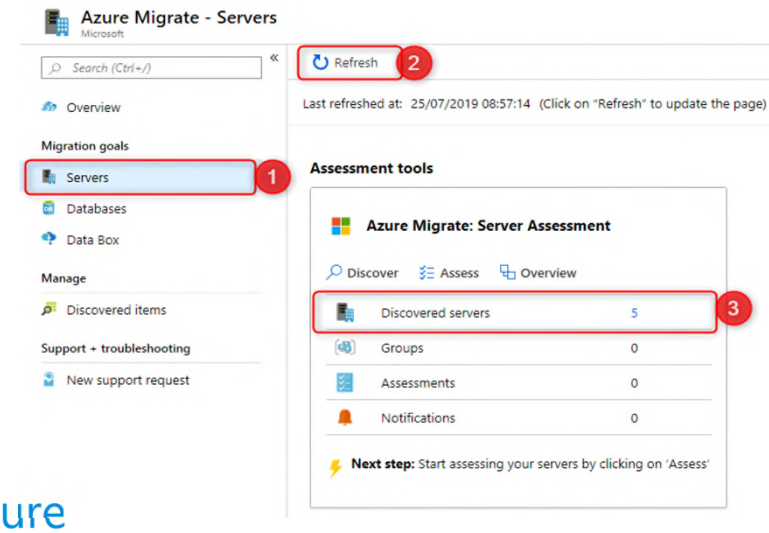
40

3d. Verify the Discovered Servers in Azure portal



Azure

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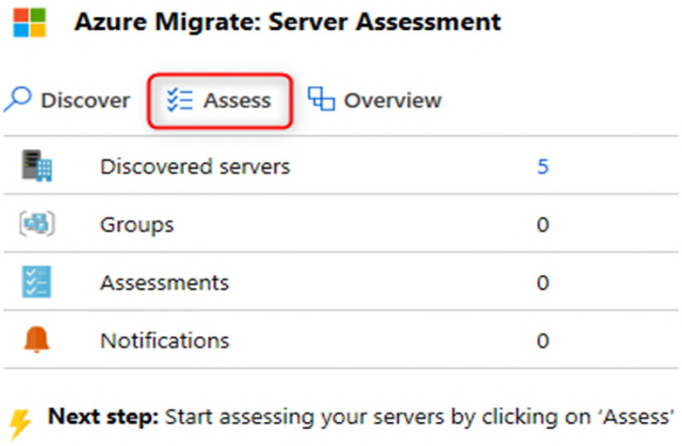
41

4.1 Create a migration Assessment



Azure

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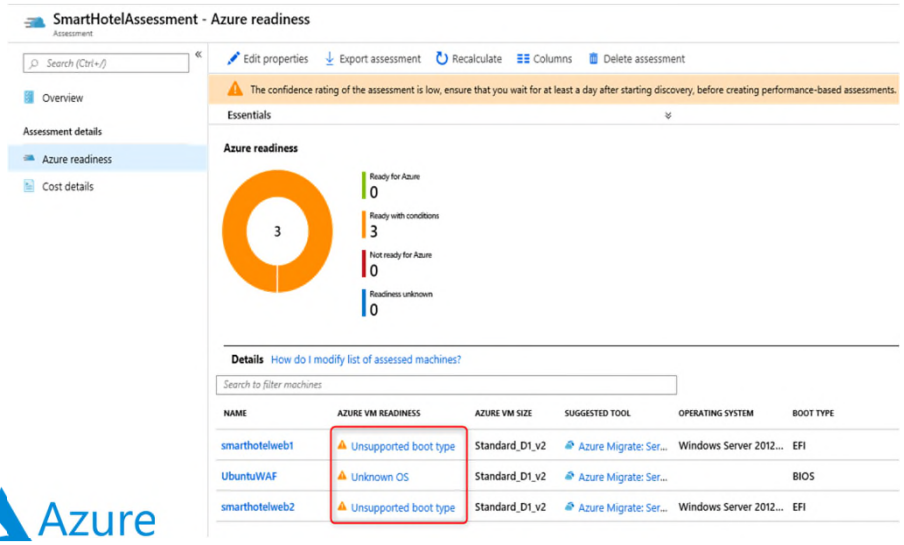
42

4.2 Verify Azure Readiness



Azure

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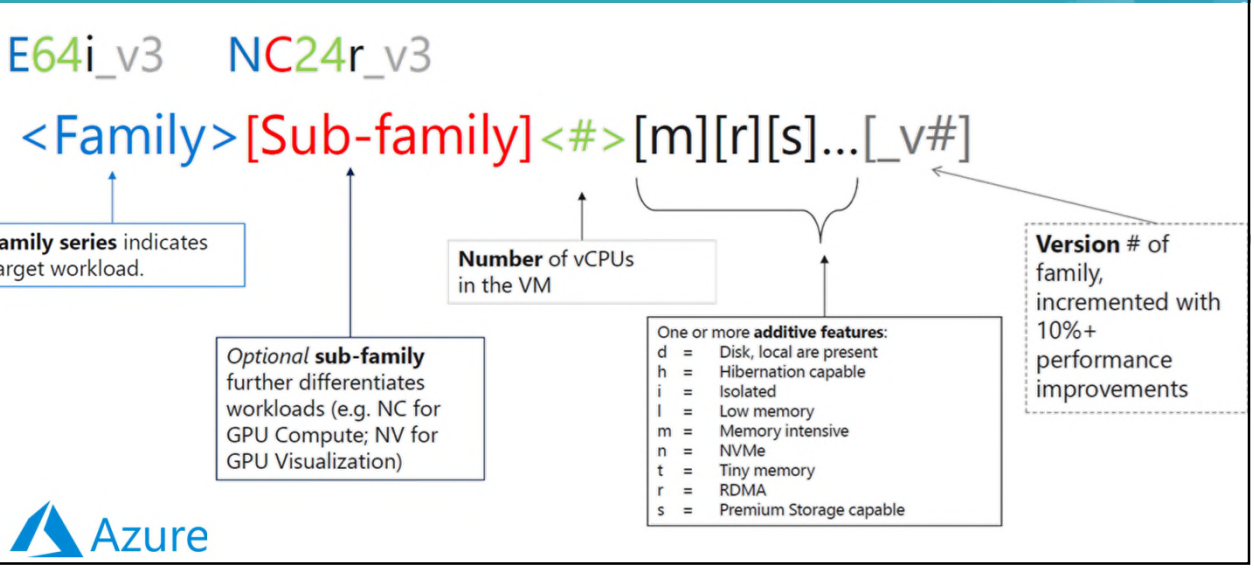
43

New Azure VM Size Naming



Azure

44

Two options to consider

Reserved VM Instances (RIs)

- Discounts up to 72% for 1 year or 3 year commitment for specific VM size in a region
- Can be exchanged or returned if needed (12% fee for returns, up to $50K per customer)
- Highly recommended for workloads, running 24/7

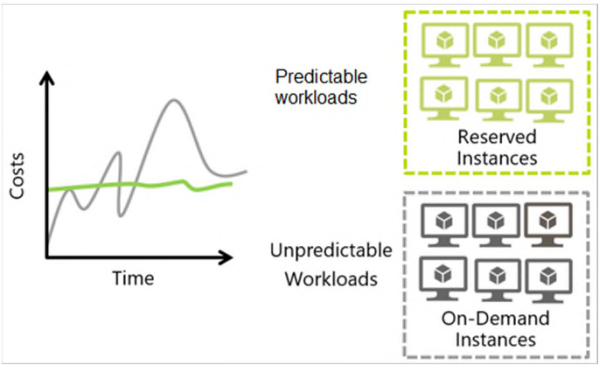
Azure Hybrid Benefit (AHB)

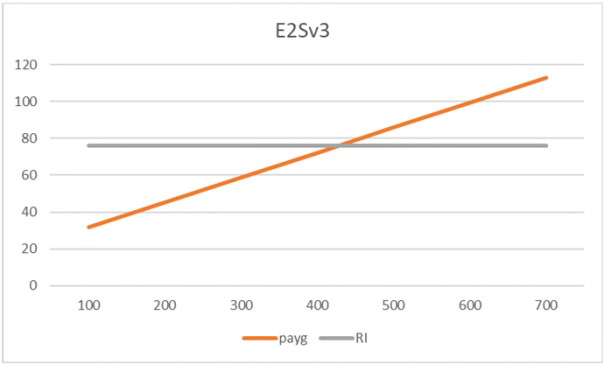
- AHB for Windows Server – Allows to leverage Windows Server licenses with active SA of the customer for Windows Server VMs
- AHB for SQL Server – Allows to leverage SQL Server licenses with active SA of the customer for Azure SQL Database

Azure

45

Reserved Instances (RI's)

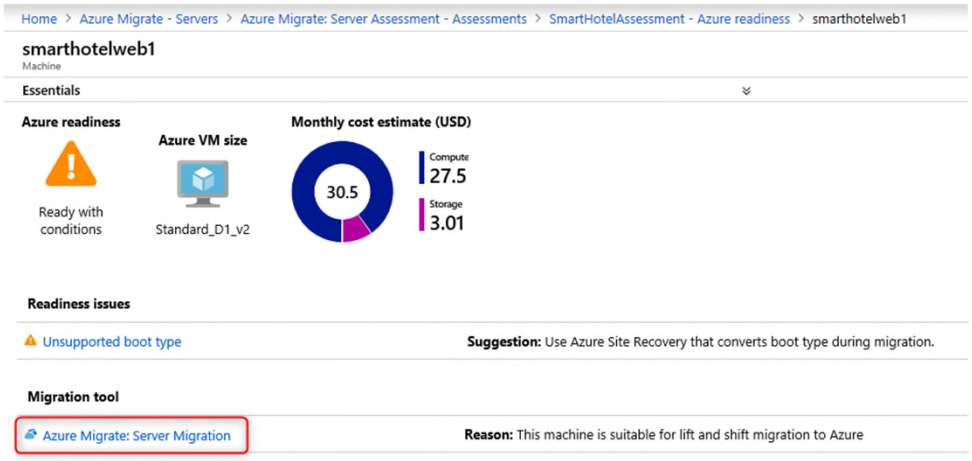




Azure

46

4.3 Cost Estimation / Assessment Issues



Azure

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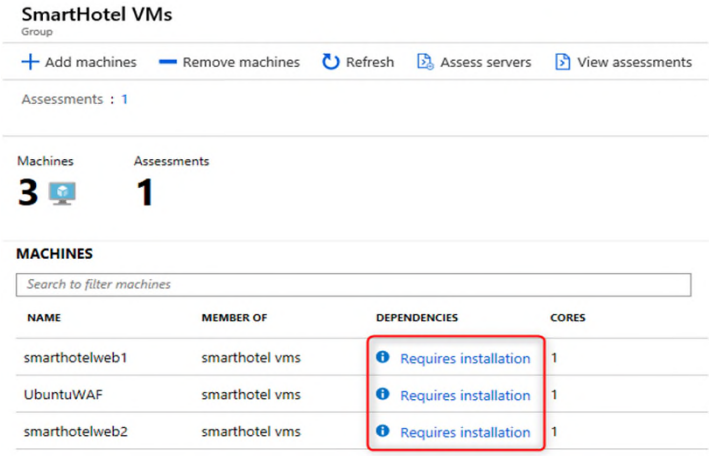
47

5. Dependency Visualization



For deeper discovery

Azure

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48

Demo

Azure Migrate : Server Assessment

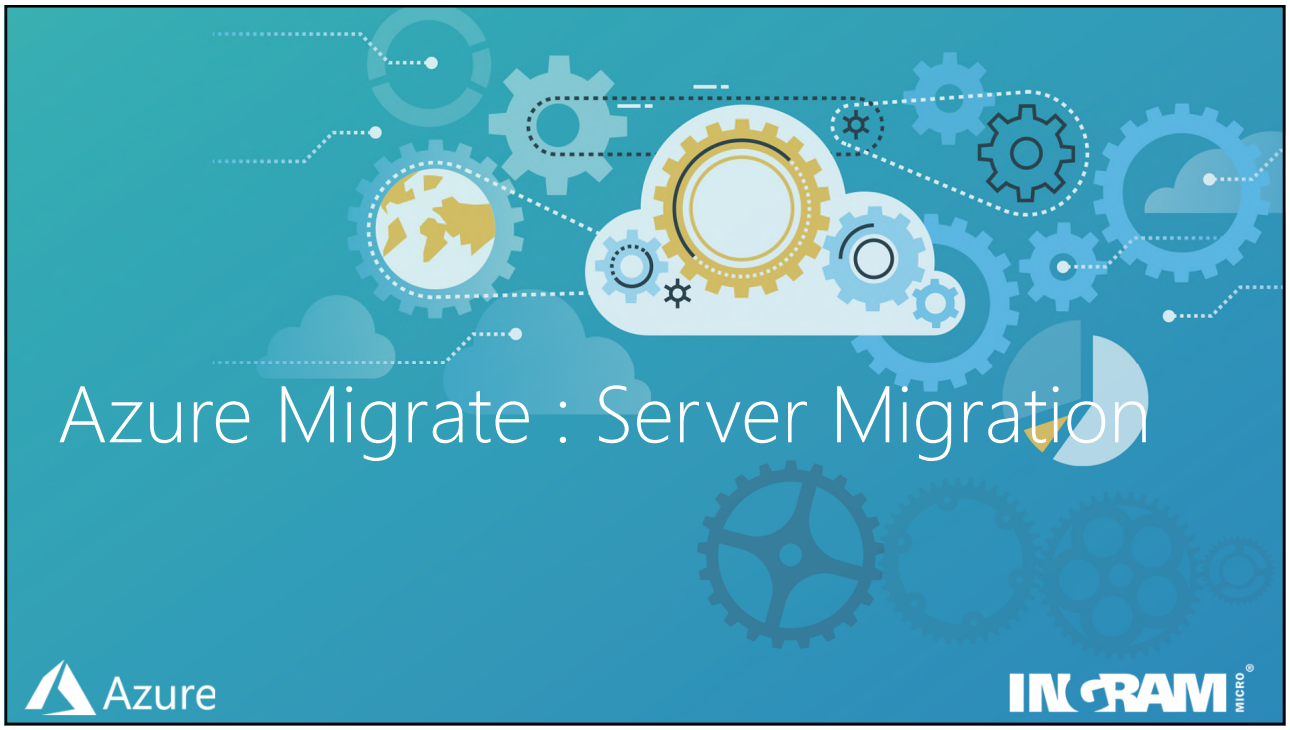
49

Learning

Design your migration to Azure

https://docs.microsoft.com/en-us/learn/modules/design-your-migration-to-azure/

50



51

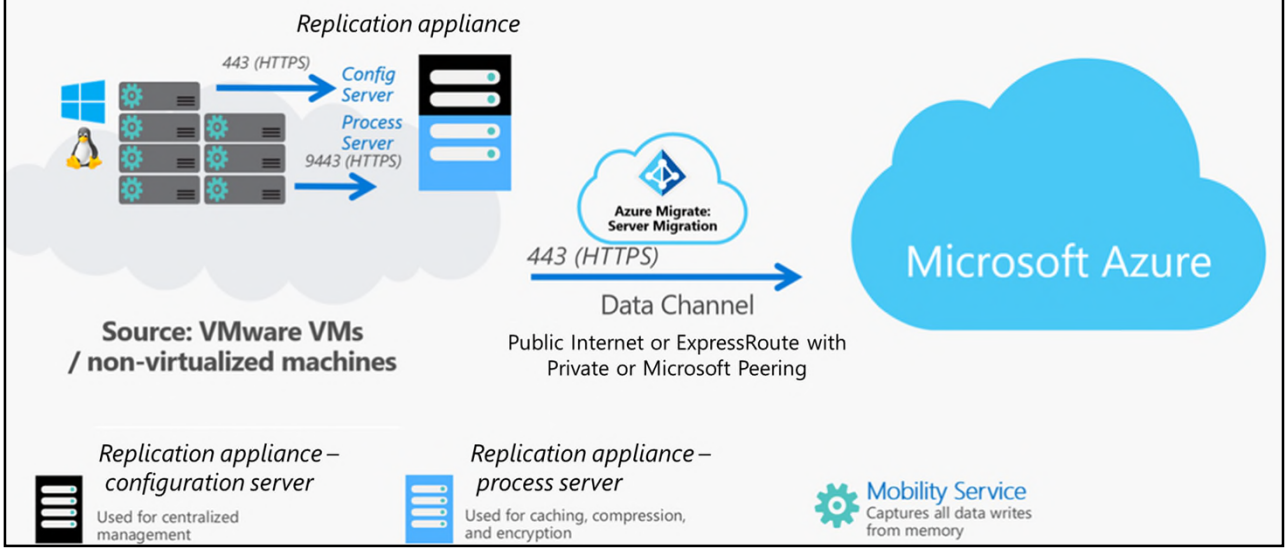
Landscape – Present

	Discover	Migrate	Optimize
Microsoft	**Azure Migrate : Server Assessment** Database Migration Assistant	**Azure Migrate : Server Migration** Public Preview Database Migration Service	Azure Cost Management
Partners	Cloudamize, TSO Logic, CLOUDPHYSICS, BitTitan, RISC Networks CloudScape, MOVERE	CloudEndure, VELOSTRATA, VERITAS, Zerto, VEEAM, VISION SOLUTIONS, 5NINE SOFTWARE	CLOUDYN, docker, CloudAtlas, CloudCheckr

Azure

52

How does it work ?



53

Replication Appliance

- Acts as Bridge between On-Premises Server(s) & Server Migration
- The Appliance has two components
  - Configuration Server
  - Process Server

Azure

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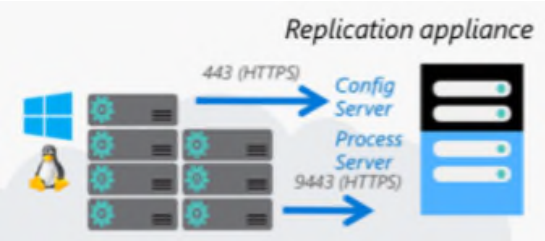
Configuration Server

- Coordinates the Replication
- Connects to Azure Migrate
- By Default, the Configuration Server is installed together with the Process Server on the Replication Appliance



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55

Process Server

- Normally installed together with the Configuration Server
- An additional Process Server might by needed when :
  - Daily change rate is more than 2 TB
  - You are replication more than 200 Servers
- If you are deploying a separate Process Server, we are speaking about a Scale-out Process Server

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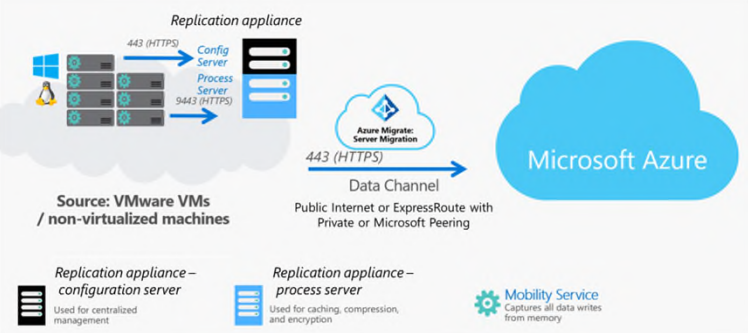
Mobility Service

- Service an every protected VM
- Can be pushed from the Process Server to the VM



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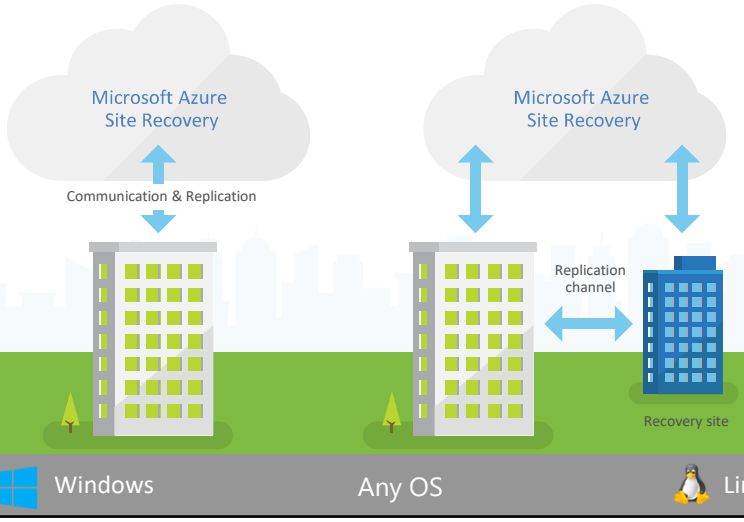
Replicate: on-prem or Azure

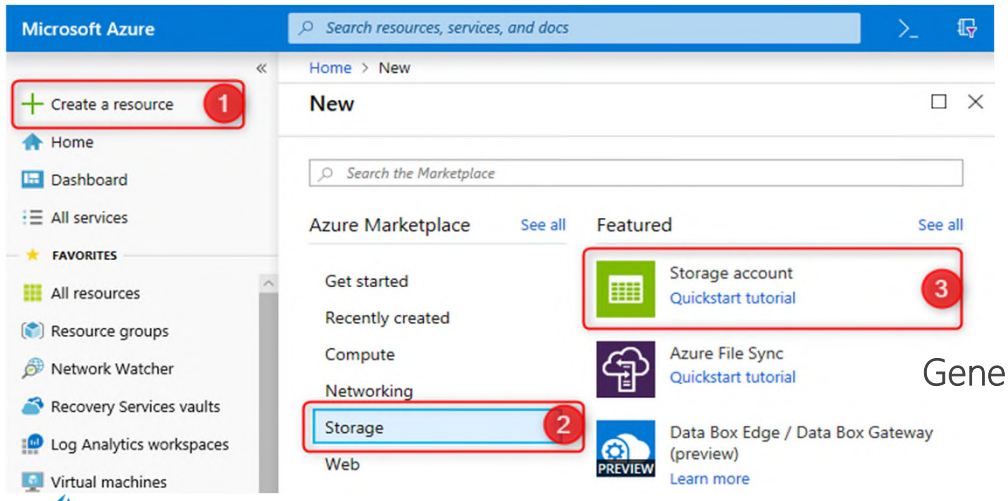
Secure Hyper-V, VMware, and physical servers



- VM Replication
- RTO/RPO Near Zero
- Heterogynous
- Secure
- Monitoring
- Orchestration
- Migrate

58

1. Create a Storage Account



General Purpose v1

Azure

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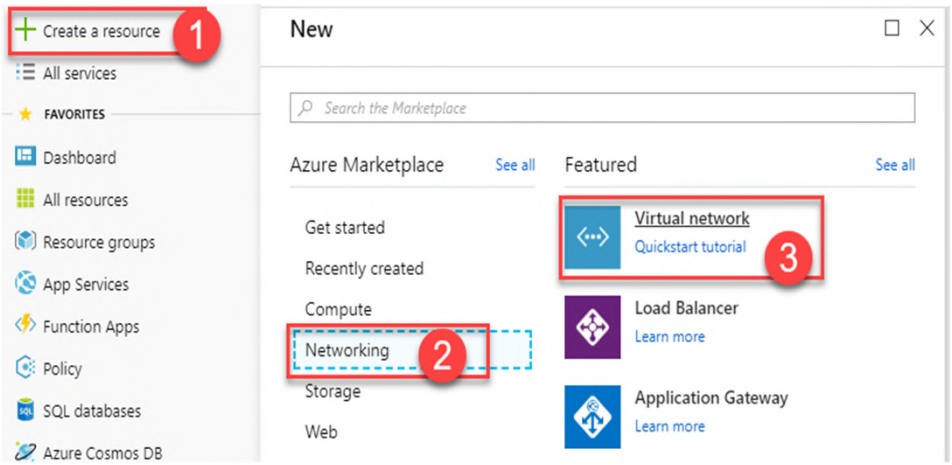
2. Create a Virtual Network



Azure

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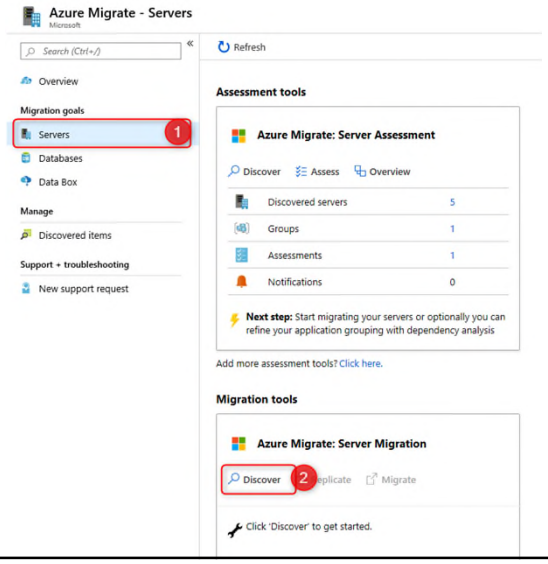
3. Register Host with Azure Migrate



Azure

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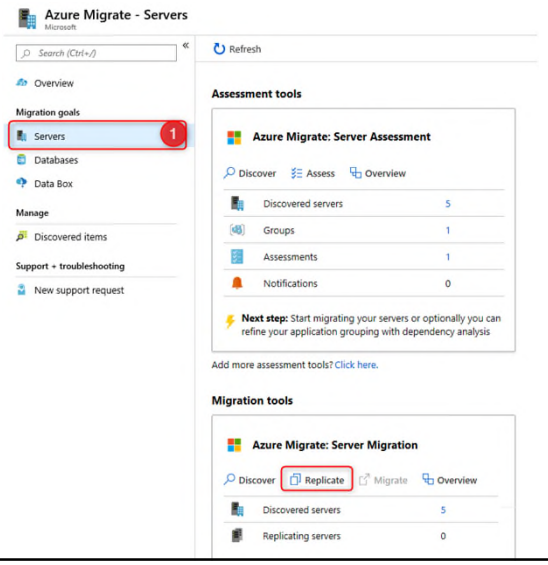
61

4.1 Enable Replication



Azure

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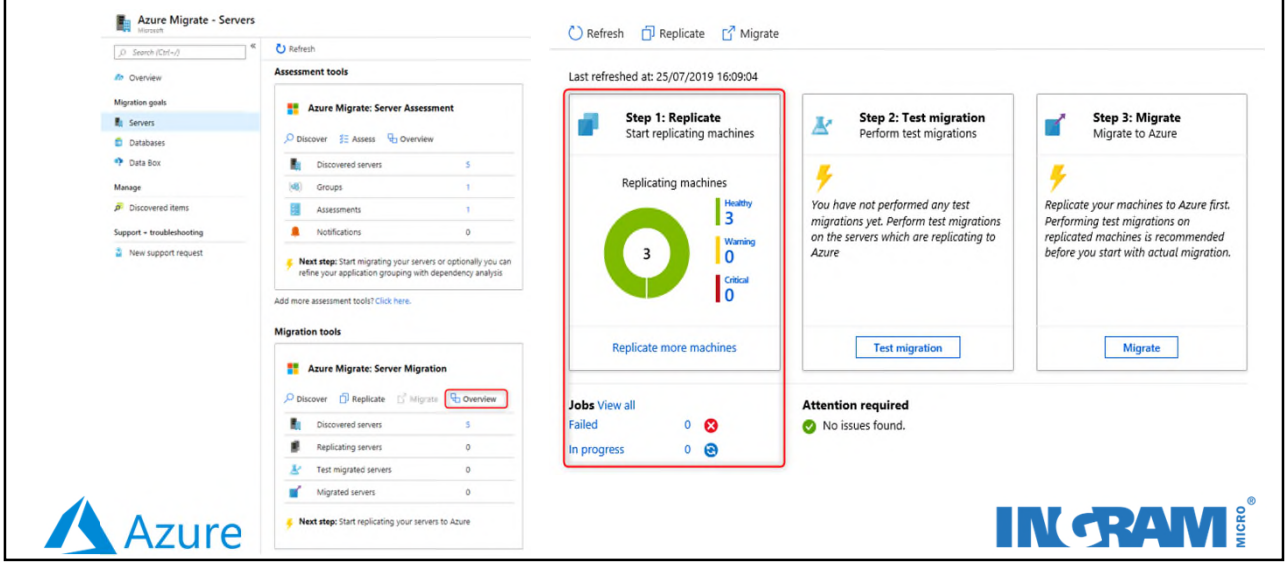
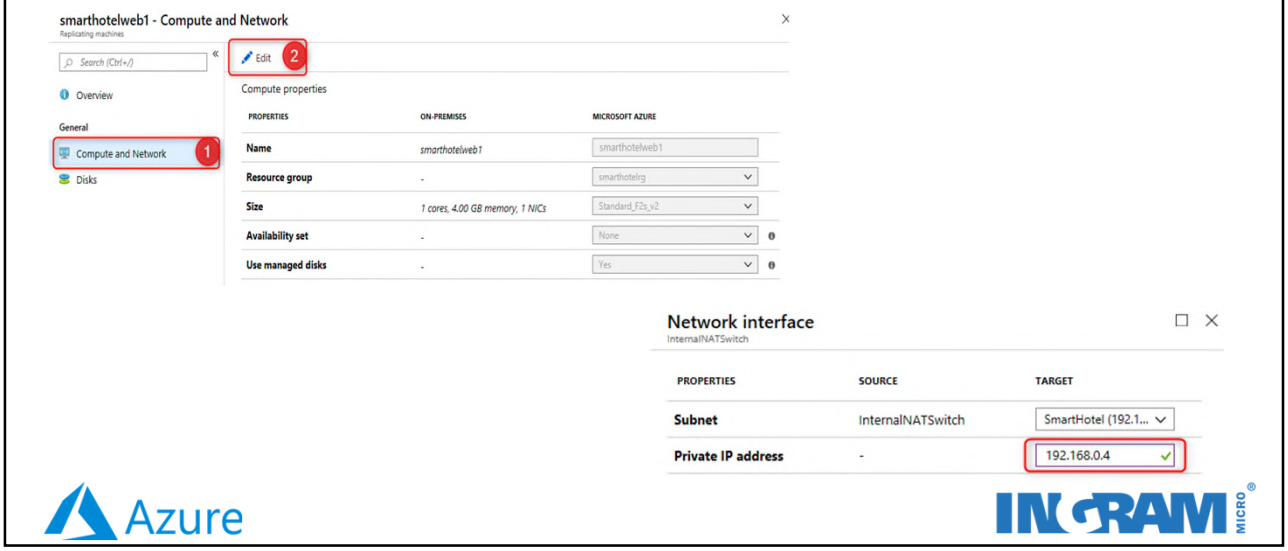
62

4.2 Verify the Replication process



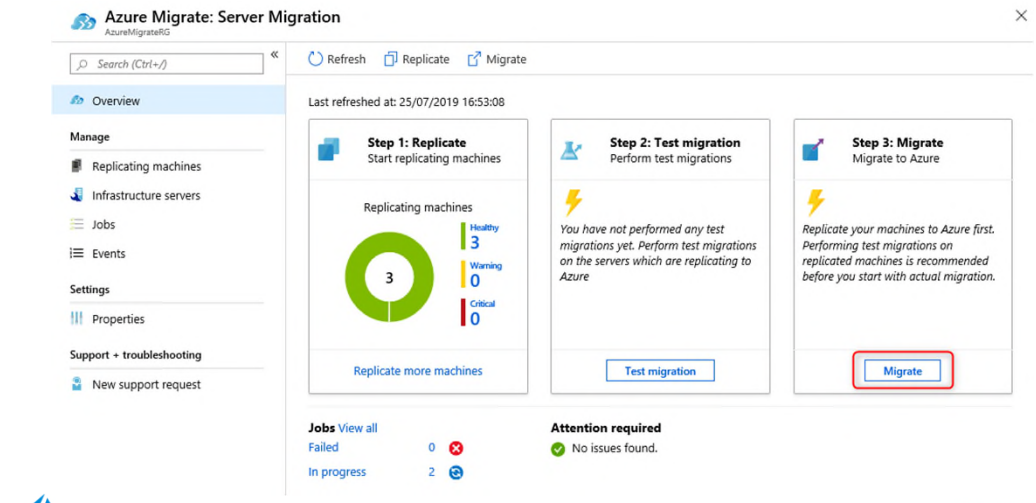
63

5. Assign a Static IP Address



64

6. Server Migration



Azure

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65

Influence Migration Speed

Influence upload efficiency

If you have spare bandwidth for replication, and want to increase uploads, you can increase the number of threads allocated for the upload task, as follows:

1. Open the registry with Regedit.
2. Navigate to key HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows Azure Backup\Replication\UploadThreadsPerVM
3. Increase the value for the number of threads used for data upload for each replicating VM. The default value is 4 and the max value is 32.

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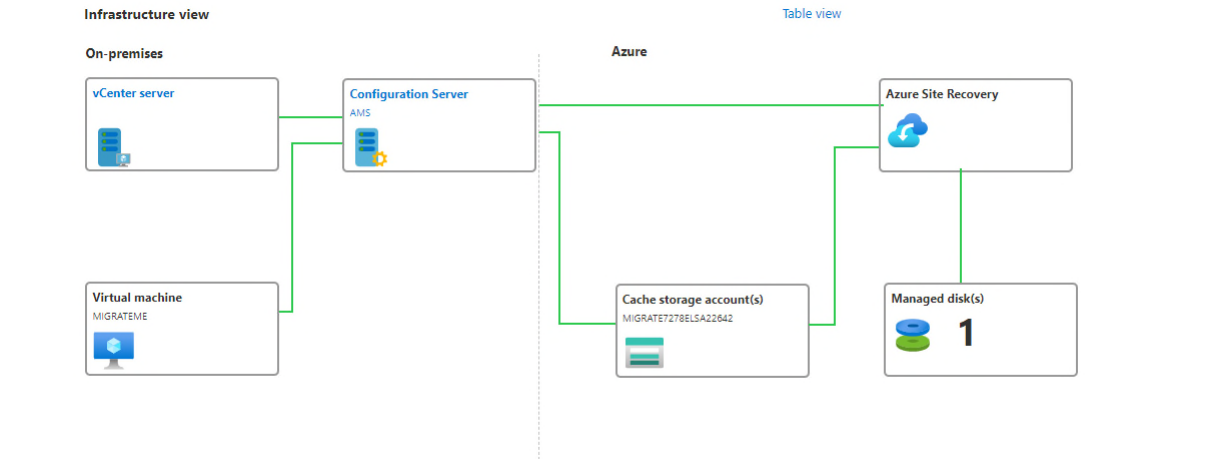
66

Infrastructure Overview



Azure

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67

Learning

Migrate virtual machines and apps using Azure Migrate

https://docs.microsoft.com/en-us/learn/paths/m365-azure-migrate-virtual-machine/

68

Download Azure Migrate Step-By-Step

- https://bit.ly/azuremigrate

Azure

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69

Module 8:
Azure Site Recovery (ASR)

70

Disaster Recovery Plan

- After a Disaster :
  - How much data do you accept that may be lost ?
  - How much downtime do you accept ?

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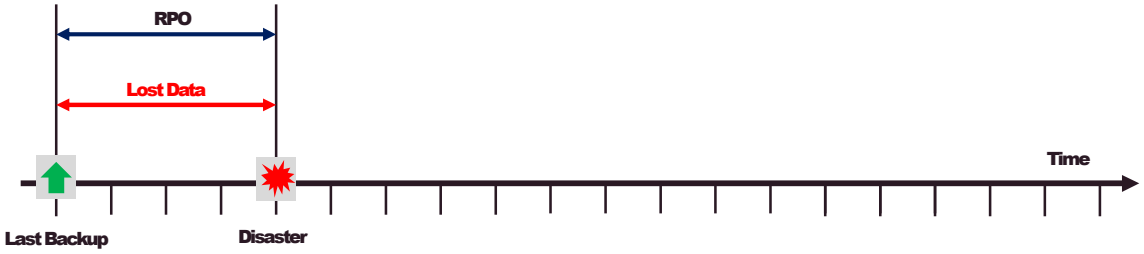
Recovery Point Objective (RPO)

- RPO :
  - Maximum tolerable amount of data loss measured in time
    - For Azure Backup usually 1 DAY
    - For Azure Site Recovery as low as 30 seconds till 5 minutes
    - Azure Site Recovery oldest recovery point : 72 hours



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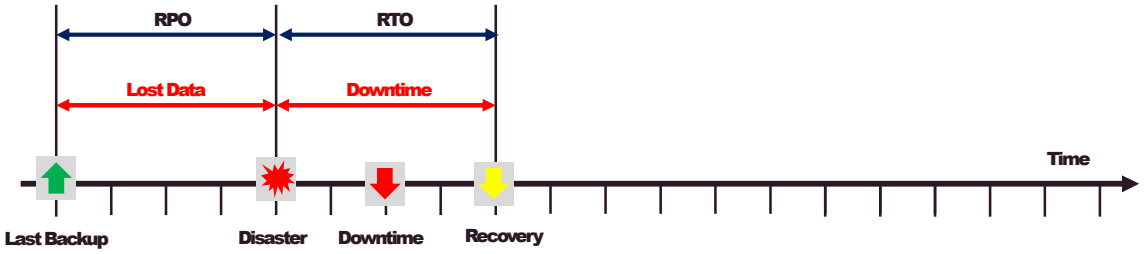
72

Recovery Time Objective (RTO)

- **RTO :**
  - **maximum tolerable amount of time needed to bring all critical systems back online**
    - **For Azure Backup multiple Hours**
    - **For Azure Site Recovery multiple Minutes**



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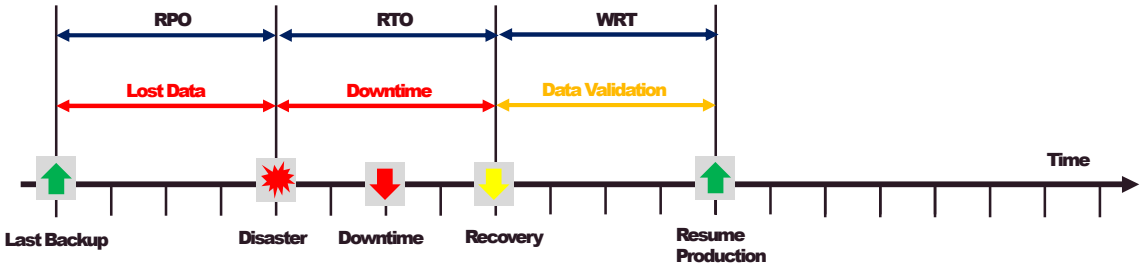
73

Work Recovery Time (WRT)

- **WRT :**
  - **Maximum tolerable amount of time to verify the recovered systems and/or data integrity**



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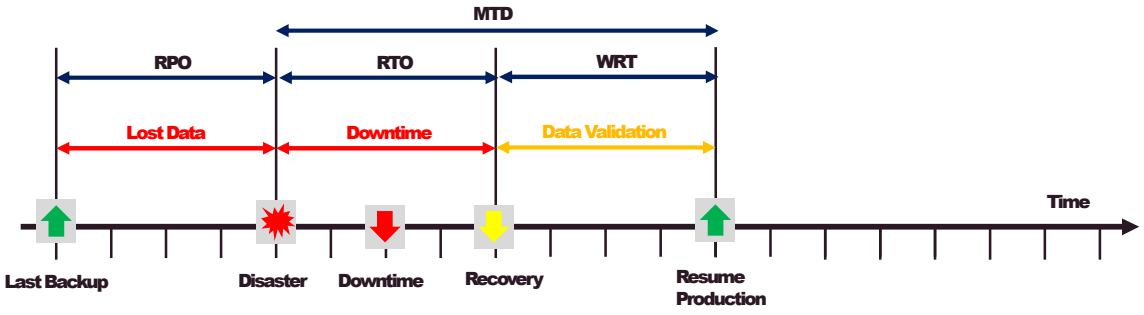
Maximum Tolerable Downtime (MTD)

- **MTD :**
  - **total amount of time that a business process can be disrupted without causing any unacceptable consequences**



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76

Azure SQL Databases

- SQL Database Managed Instance
- Single Database (Singleton)
- Elastic Pool

- SQL Database IaaS

Azure

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WHY AZURE SQL MANAGED INSTANCE?

- **Are your customers interested in moving to cloud?**
  - Want to close your data center
  - Current hosting solution is high maintenance
  - You're asked to do more with less
  - Want to expand your reach globally
- **Do your customer want to avoid app rewrites but still benefit from PaaS?**

78

WHAT IS SQL DATABASE MANAGED INSTANCE?

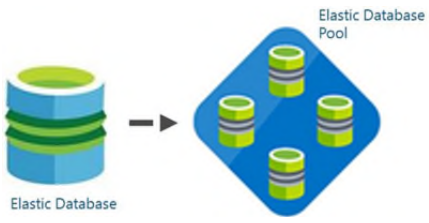
DBaaS designed to for all SQL Server applications

Unmatched app compatibility	Unmatched PaaS capabilities	Favorable business model
Fully-fledged SQL instance with nearly 100% compat with on-prem	Lowest TCO + rich Azure ecosystem Built-in automatic management Compliance certifications	Competitive Transparent CORE AND STORAGE Frictionless

79

Elastic Pool

- Multiple SQL Instances in the same Pool
- All Resources are shared
  - CPU
  - IO
  - Memory
- Share Compute Power between Database resources



Azure

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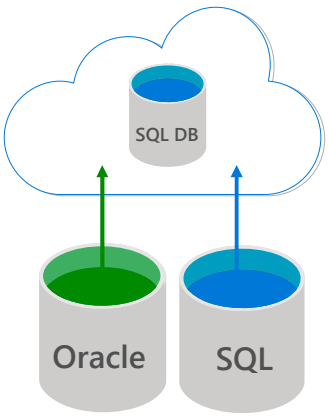
HOW DOES PAAS HELP YOU?

On-prem database management tasks	How PaaS helps?
Data protection • Backups (with health checks and retention)	Built-in
High availability / disaster recovery implementation • Always On • Database Mirroring • Log shipping	Built-in
Compliance with standards	Built-in
Security • Data access • Defense in depth • Breach detection	Easy to use tools
Monitoring	Easy to use tools
Performance tuning and maintenance • Query plan regressions – detection and prevention • Index optimization and maintenance	Built-in

81

RELIABLE AND SEAMLESS MIGRATIONS
Azure Database Migration Service (DMS)



- Fully managed database migration service for both operational databases and data warehouses
- Supports minimal down time migrations
- Supports both homogeneous and heterogeneous source-target pairs
- Initial focus on reliability and performance
- Iterative addition of source-target pairs
- Continued investment in friction-free competitive conversions

82

Azure Database Migration Service

Azure

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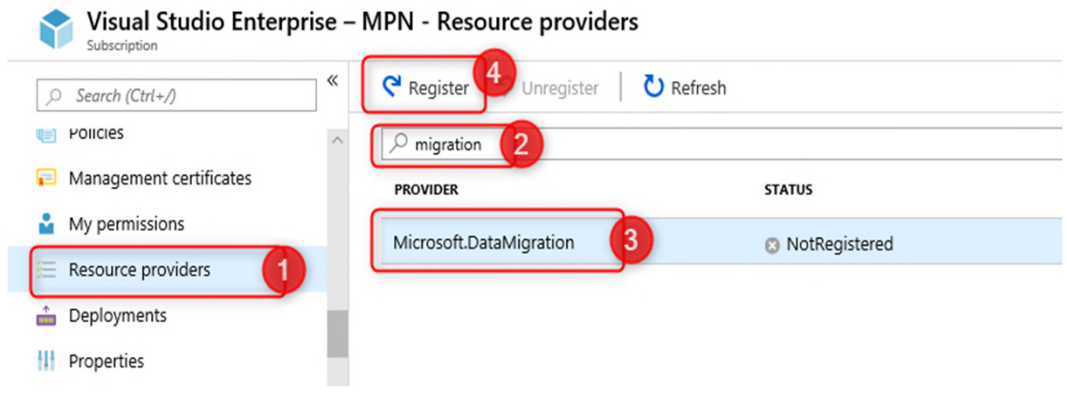
83

1. Register DataMigration resourceprovider



Azure

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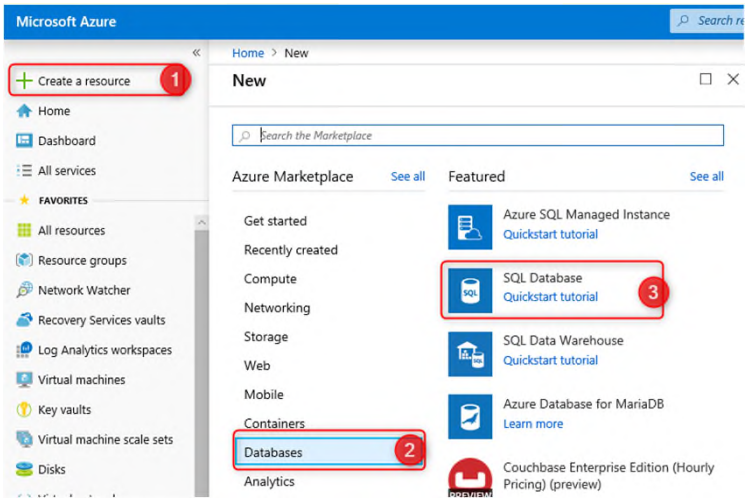
84

2. Create an Azure SQL Database



Azure

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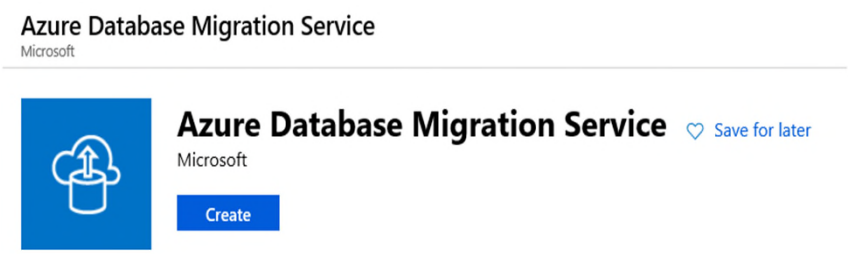
3. Create a Database Migration Service

- + Create a resource
  - Search for **migration** and select **Azure Database Migration Service**



Azure

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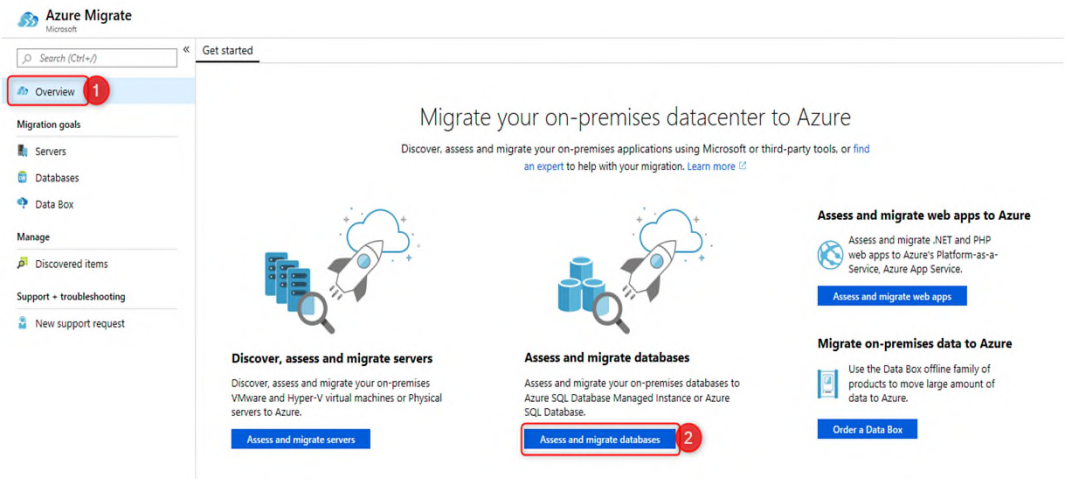
4. Assess the on-premises database



Azure

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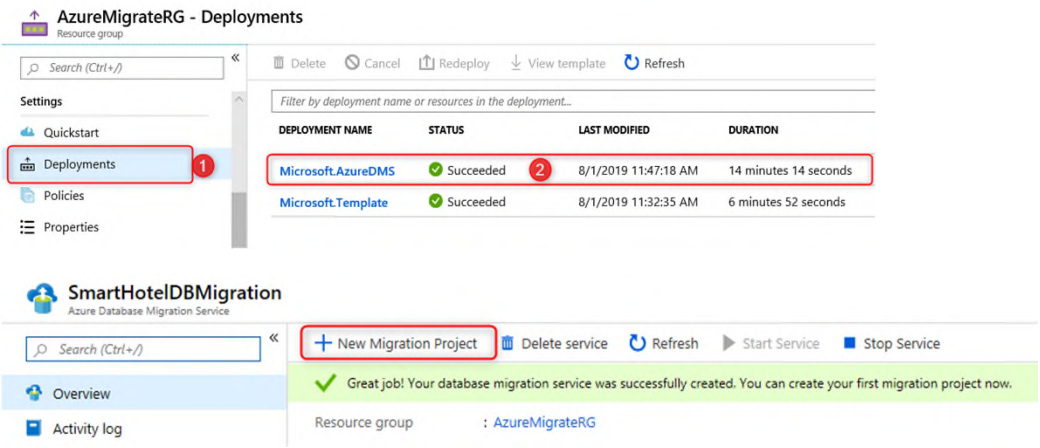
5. Create a Database migration project (DMS)



Azure

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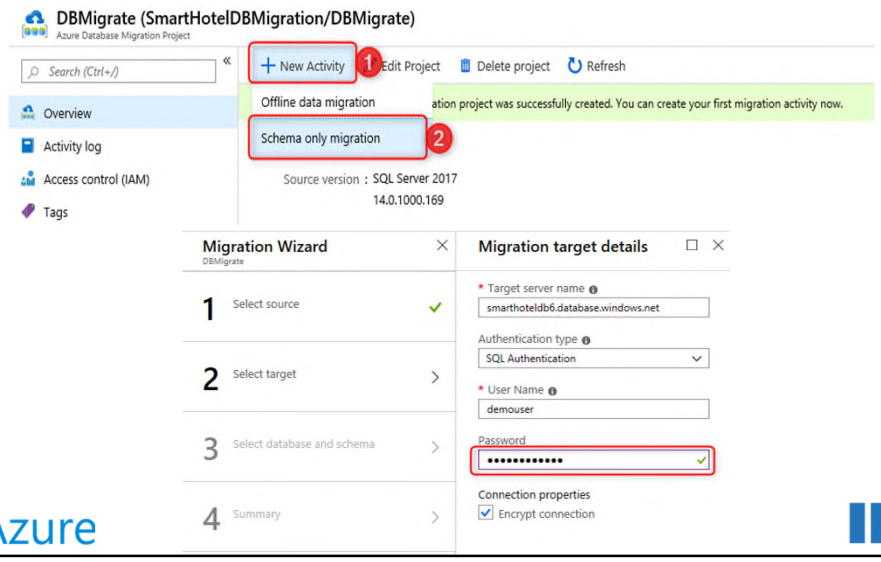
88

6. Migrate the database schema



Azure

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89

7. Migrate the data

Azure

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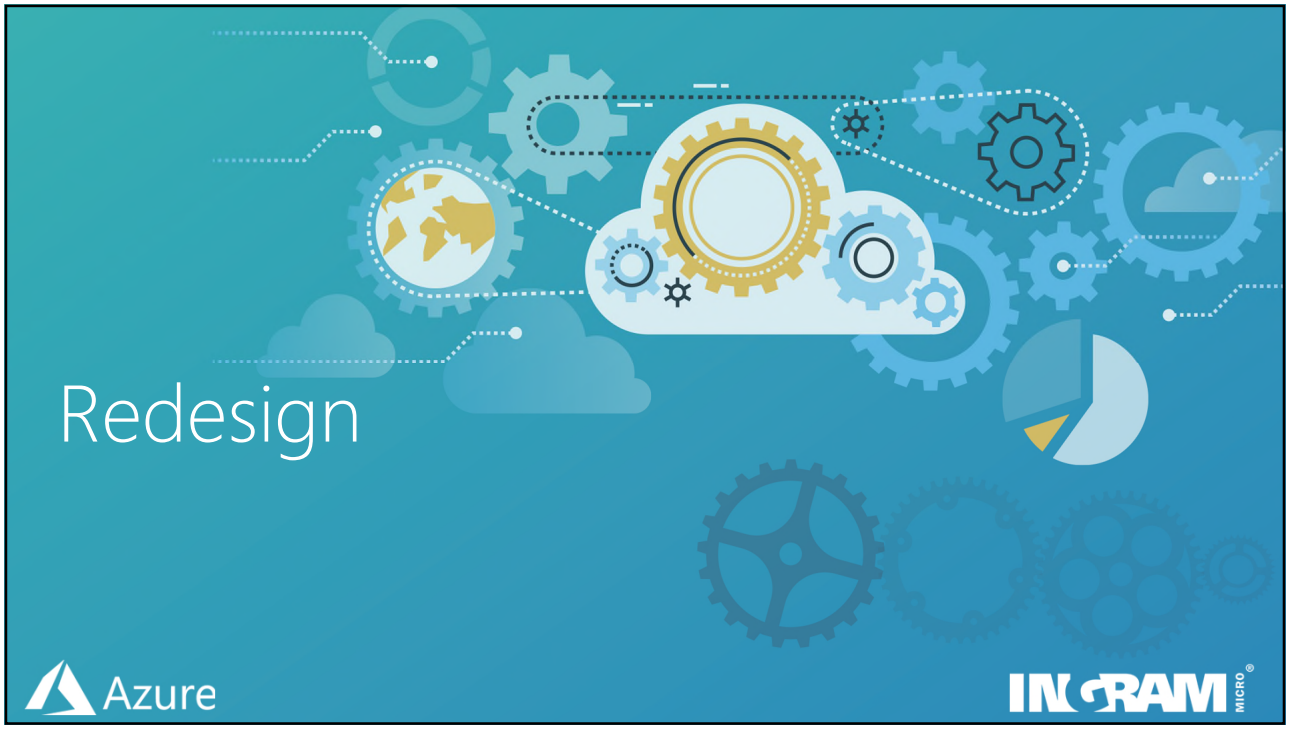
90

Hands-On LAB

Migrate your relational data stored in SQL Server to Azure SQL Database

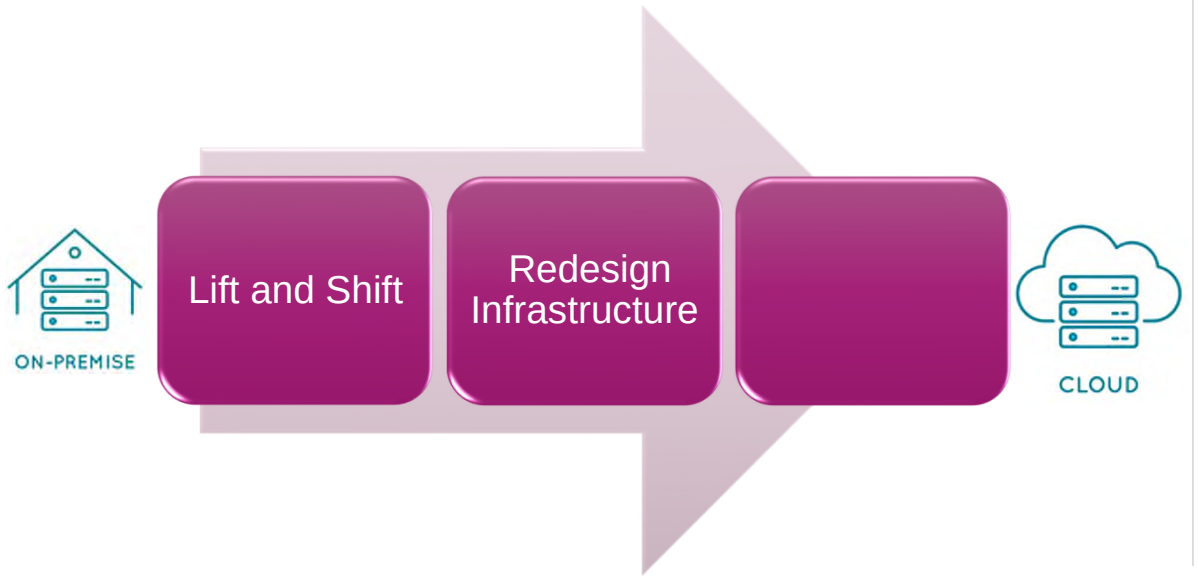
https://docs.microsoft.com/en-us/learn/modules/migrate-sql-server-relational-data/

91



92

Moving your IT Solutions to the Cloud



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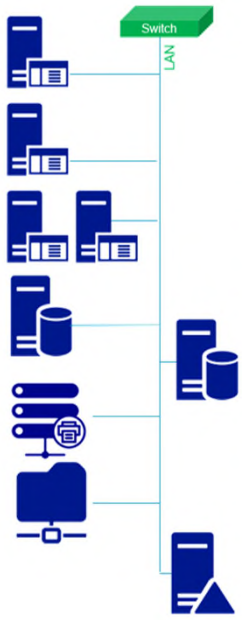
More as a Service

93

93

PaaSifying your Infrastructure



Web Server	Azure App Service
Remote Desktop Server	Azure Virtual Desktop
Recovery Solution	VM Scale Sets
	Azure Site Recovery
Database Server	Cosmos dB, SQL Service
Backup Server	Azure Backup
Print Server	Universal Print
File Server	Azure Files / Blob Storage
Active Directory Server	Azure Active Directory

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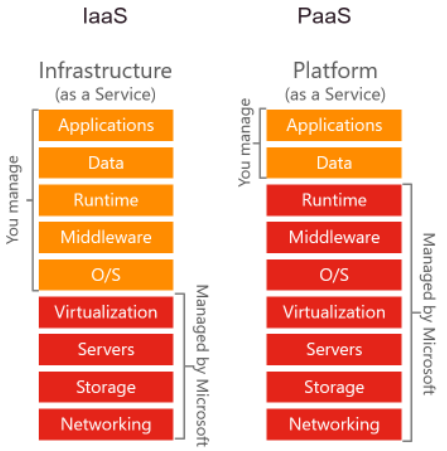
94

94

Platform as a Service (PaaS)

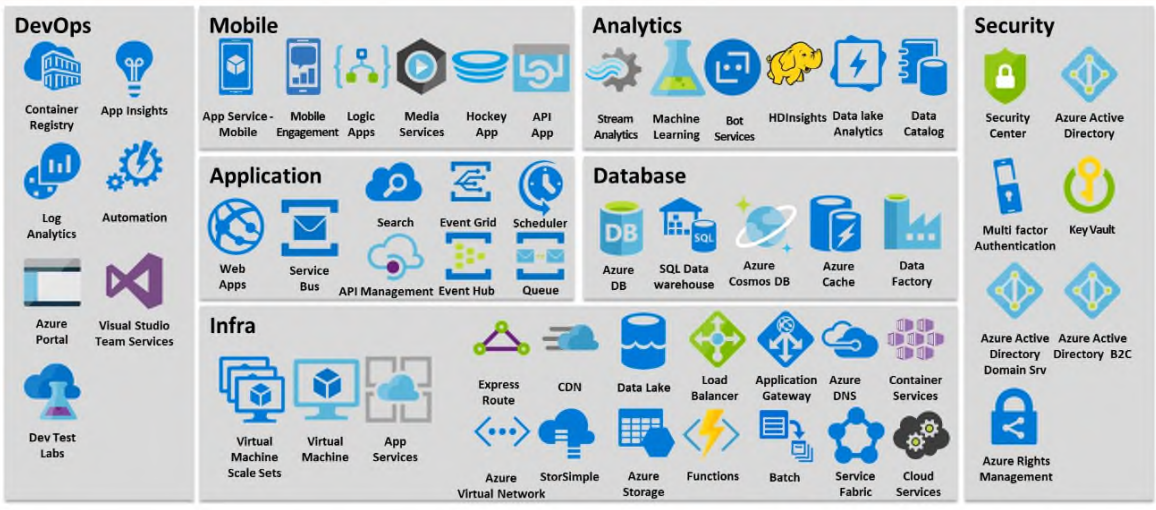
- No Operating System to maintain
- No Middleware maintenance
- No Runtime Maintenance
- Service is Ready to Configure



95

95

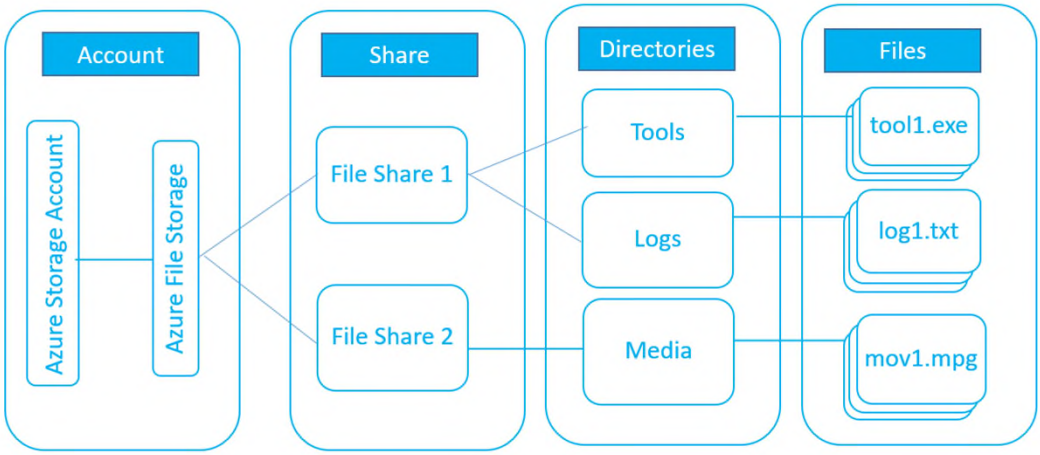
PaaS Services in Azure



96

96

1. Azure Files (File Server)



97

97

File Server PaaS replacement

Azure Files
1000 GB
10.000.000 Transactions

32€ /month

98

98

Additional Features possible

- Identity Based Authentication (AD DS)
- Snapshots (for example every hour)
- Synchronization to On-Premise
- Daily Backup

INGRAM MICRO CLOUD More as a Service

99

99

2. Azure SQL Service (SQL Server)

Unmatched app compatibility	Unmatched PaaS capabilities	Favorable business model
Fully-fledged SQL instance with nearly 100% compat with on-prem	Lowest TCO + rich Azure ecosystem Built-in automatic management Compliance certifications	Competitive Transparent CORE AND STORAGE Frictionless

INGRAM MICRO CLOUD More as a Service

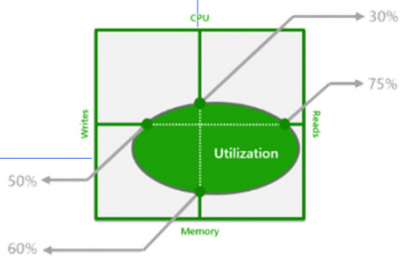
100

100

SQL Database Replacement

Single SQL Database
250 GB database storage
20 DTU's (data transaction Units)

29€ /month



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101

101

Additional Features possible

- Daily Backup
- Long Term Retention Backup
- Logging / Monitoring
- Zone Redundancy

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102

102

3. Azure Active Directory

- User Identity Directory
- Single sign on to any app
- User self-service portal
- Multifactor (MFA) + Passwordless Authentication
- Conditional Access + Identity Protection
- Hybrid Identity Management
- Frontline Worker Identities & External Identities (B2B)

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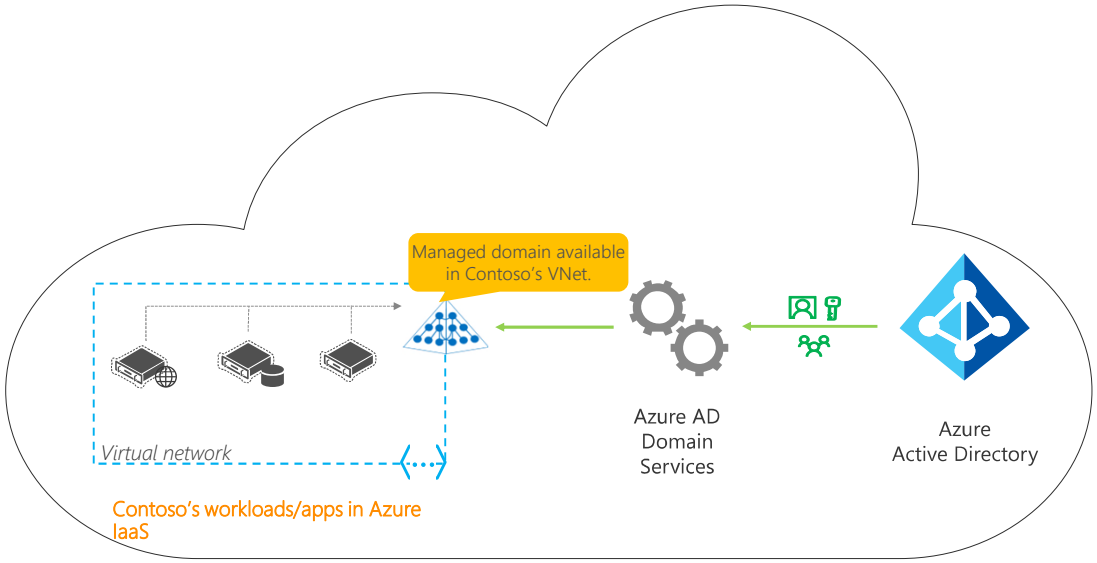
103

103

Azure AD Domain Services



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104

104

AD DS Replacement

Azure AD Domain Services

Dual Managed Domain Controller

Standard Tier

(less than 25.000 Objects)

108€ /month

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105

105

4. Azure Backup

- Backup VMs running in Azure
- Backup Servers running On Prem
- Backup Azure Files
- Backup Azure Blob Storage
- Backup SQL Servers/Services
- Backup PostgreSQL database

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106

106

Azure Backup

Single Virtual Machine
700 GB Storage
20 Daily / 8 Weekly / 6 Monthly

€26 /month

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More as a Service

107

107

108

Landscape – Present

	Discover	Migrate	Optimize
Microsoft	Limited Preview **Azure Migrate** Database Migration Assistant	Azure Site Recovery Public Preview Database Migration Service	Azure Cost Management CLOUDYN
Partners	Cloudamize, TSO Logic, CLOUDPHYSICS, BitTitan, RISC Networks CloudScape, MOVERE	CloudEndure, VELOSTRATA, VERITAS, Zerto, VEEAM, VISION SOLUTIONS, 5NINE SOFTWARE	docker, CloudAtlas, CloudCheckr
Azure			

109

Insights in Azure Consumption & Cost

What are our spending trends?

How much do the services cost?

Are there any spending anomalies?

Will we stay within budget?

How do our spending habits change month-over-month?

What are we spending, on what?

How much have we spent so far this month?

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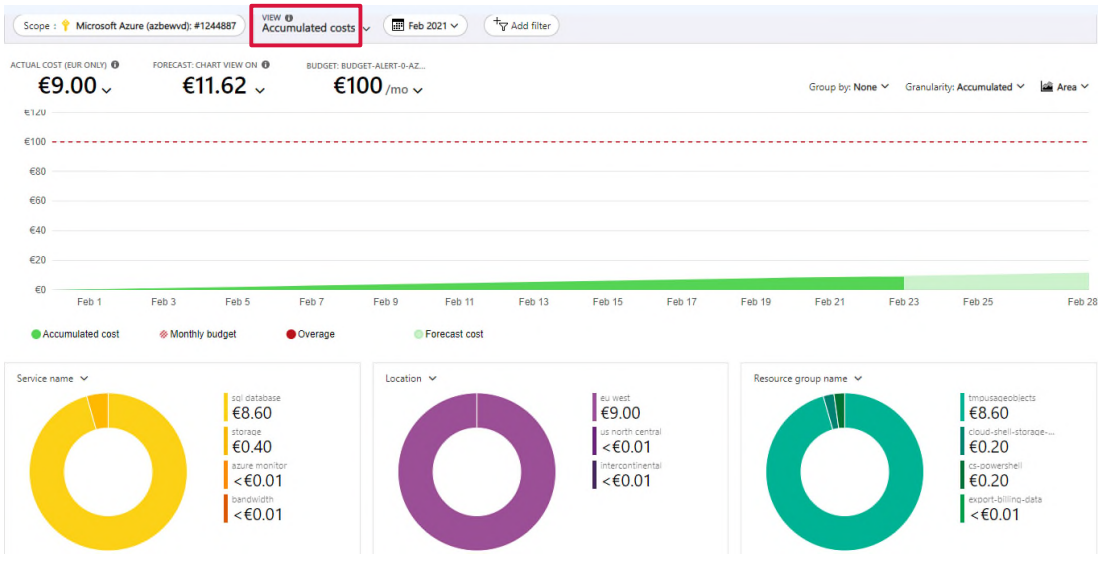
110

110

Cost Analysis : Accumulated cost



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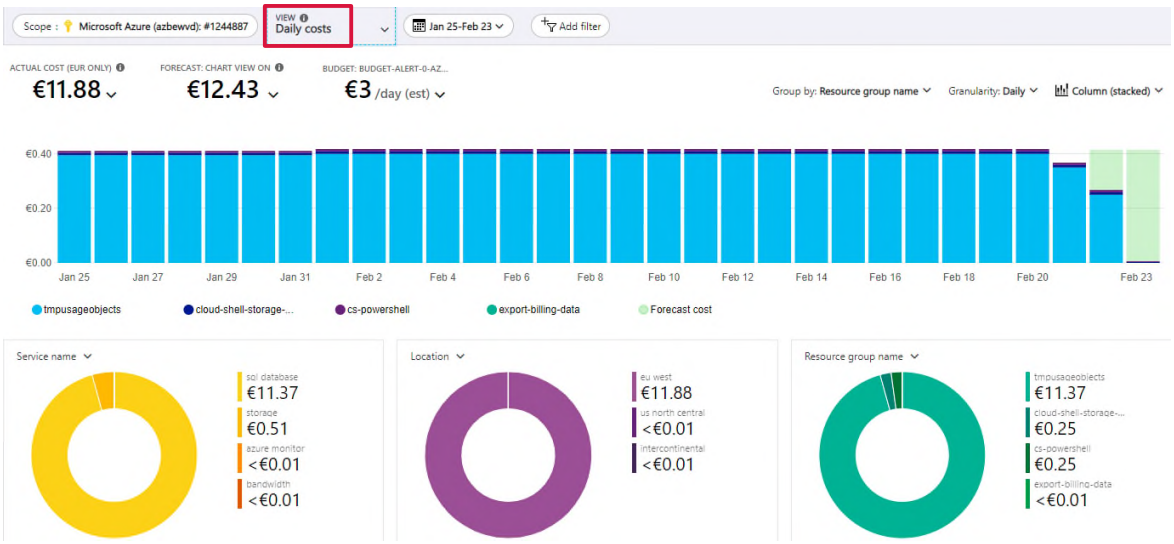
111

Cost Analysis : Daily cost



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112

Budgets

Create a budget and set alerts to help you monitor your costs.

Budget scoping

The budget you create will be assigned to the selected scope. Use additional filters like resource groups to have your budget monitor with more granularity as needed.

Scope: Microsoft Azure (azbewvd): #1244887
Change scope

Filters: Add filter

Budget Details

Give your budget a unique name. Select the time window it analyzes during each evaluation period, its expiration date and the amount.

* Name: Budget_Warning
* Reset period: Monthly
* Creation date: 2021 | February | 1
* Expiration date: 2023 | January | 31

Budget Amount

Give your budget amount threshold

Amount (€) *: 1000

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113

Advisor recommendations

Cost Management
- Cost analysis (preview)
- Cost analysis
- Cost alerts
- Budgets
- Advisor recommendations
- Cloudyn

You are following all of our cost recommendations for the selected subscriptions and resources.

- Unused Reserved Instances
- Database underutilization
- Idle devices, like VPN Gateway
- Machines that are running the whole month
- Disk Snapshots
- Ephemeral OS Disks

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114

Learning

Azure Cost Management

https://docs.microsoft.com/en-us/learn/modules/manage-costs-partner-cost-management/

115

Wrap Up

- DataCenter Migration : Introduction
- Discovery & Assessment
  - Azure Migrate : Server Assessment
  - BitTitan
- Migrate Application Database
  - Azure Database Migration Service
- Migrate Workloads
  - Azure Migrate : Server Migration
  - Migration wit Veritas
- Optimize
  - Azure Cost Optimization – Cloudyn

Azure

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116

117