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ANALYZE CLOUDIFY SAASIFY

Microsoft Azure

How Modernize applications with Azure PaaS services and Containers?

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Microsoft Azure

Want to automatically modernize your applications with Azure PaaS Services and Containers?

Join the Webinar on

Thursday, **May 14 at 8:00 AM - 9:00 AM.** PDT

Will start in a few minutes

Agenda:

1. What is PaaS and what are its benefits
2. What is Azure Kubernetes Service (AKS) and its benefits
3. How Corent SurPaaS can automatically migrate your workloads to PaaS and AKS with one click

Speakers

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In this Webinar, we will cover

- Why Modernize?
- What are your Modernization choices?
- Where to look for PaaS and Container options in your applications?

- PaaS'ification
- Containerization and AKS

- What to do after PaaS and Containers?

- Q&A

8:00 AM

8:05AM

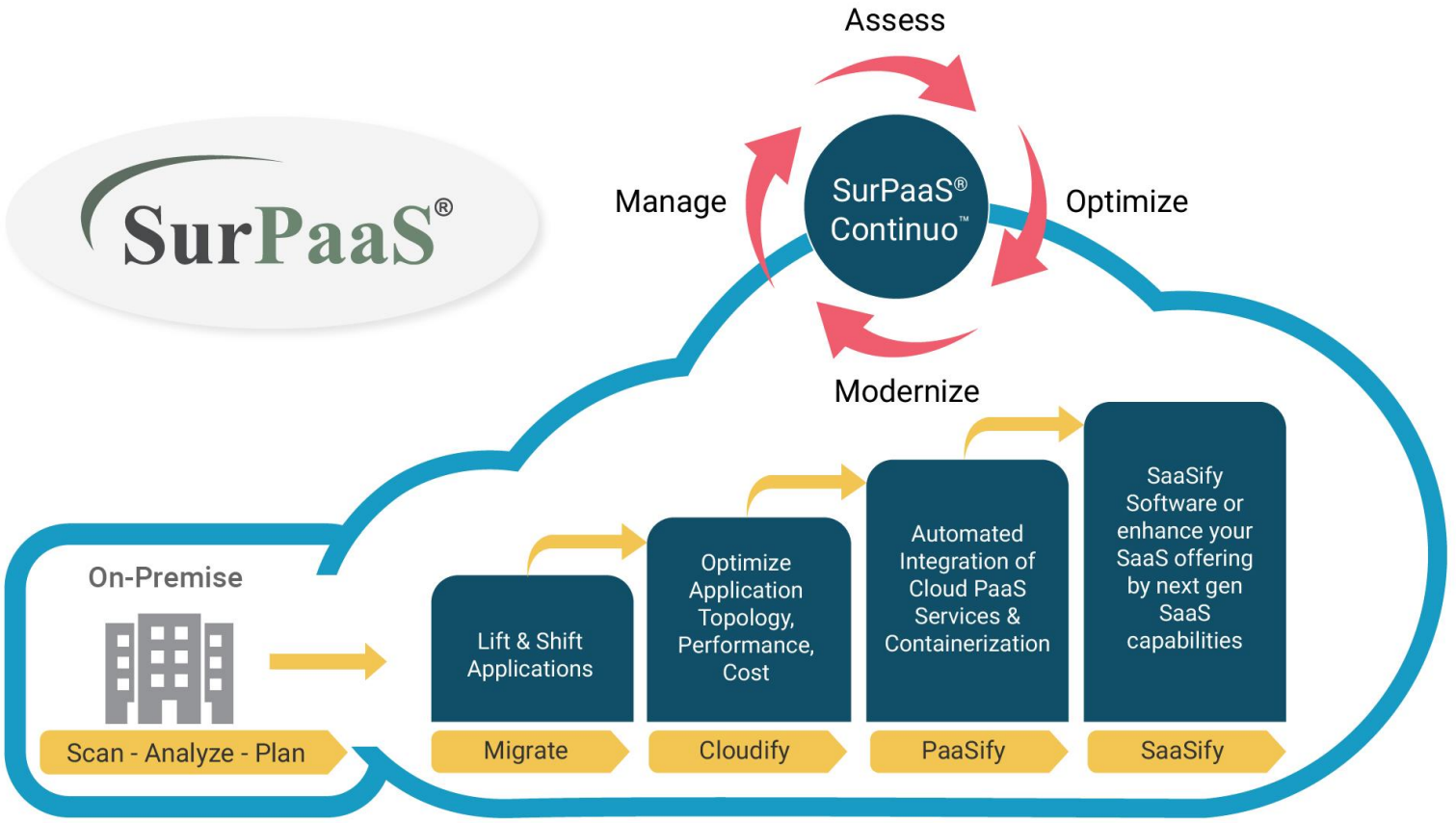
8:50 AM

9:00 AM

Corent SurPaaS® Manages the entire the Cloud Journey

Gold Microsoft Partner Cloud Platform

Microsoft



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Partner driven

Special offer to webinar participants

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- SurPaaS will assess your application and provide a Modernization report
- SurPaaS will PaaSify and Containerize the selected workloads
- Please email PaaS@corenttech.com with the subject “Free Modernization”

Before May 31st

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BLUF: Bottom line up front

SurPaaS automates modernization of your applications enabling you to take advantage of the full power of Azure

Saving significant time and resources

PaaS delivers more value for your applications on Cloud

On-Demand tools & Platforms

Lower tool operating costs

Reduced technical requirements

Rapid access to new technology

Pay as you Go

Reduce upfront infrastructure costs

Eliminate ongoing support costs

Speed and versatility

Rapid adoption

Increased speed of product development

Resilience and redundancy

Global distributed development

Availability at all times

Access by Multiple teams

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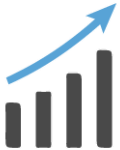
Containers and Kubernetes Services delivers more flexibility to your applications



Scalability

Rapidly scale software with ease

Portability

Workloads can be ported to any platfrom

Reduced development and maintenance costs

Ease of Orchestration & Management

Managing a large number of deployments

Easy Software Rollouts and Rollbacks

Global distributed deployment

Run on any platfrom or Cloud

Local deployment to serve region specific customer needs

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In moving to PaaS, Containers and AKS

TECHNICAL CHALLENGES

Determining what's available

Acquiring expertise to use new technology

Significant effort required to perform Modernization manually

OPERATIONS CHALLENGES

Modifying existing software & processes to leverage new technology

The different layers on Cloud

SaaS — Software delivered as Service

Services — Containers and Serverless Computing

PaaS — Tools and platforms

IaaS — Base infrastructure

Compute **Network** **Storage**

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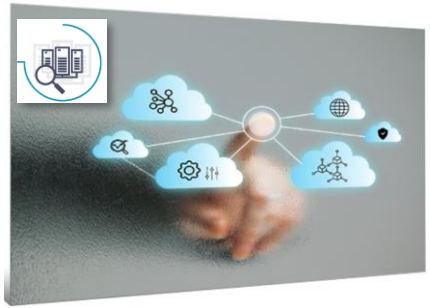
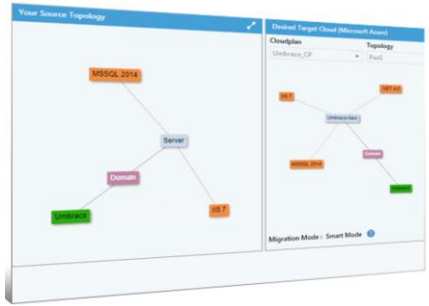
Application Modernization choices in SurPaaS (PaaS/Containers/AKS)

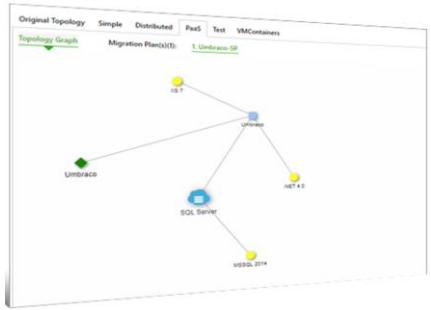
- Where do I look for PaaS and Container candidates in my application?
- How do I modernize?



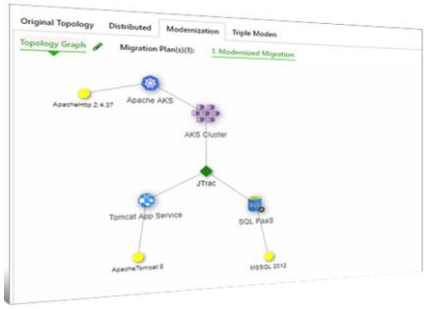
Scan and Assess for Modernization



Re-platforming to redeploy workloads

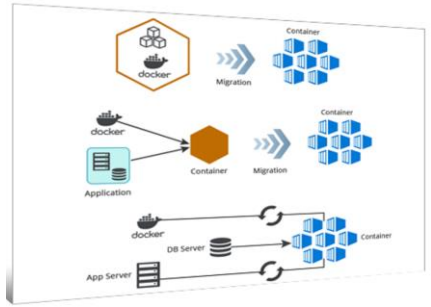


DB PaaS Service mapping and Migration



Serverless Application Services mapping and Migration

Containerization of workloads



Migration to Kubernetes Services (AKS)

Modernization in SurPaaS®– PaaS/Containers/AKS

DBaaS

- MS SQL Server
- MySQL
- Postgres
- Managed Instances

App Services

- Tomcat for Java applications
- IIS for .net applications

Containers

- Docker on VMs
- Move to AKS

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Process of Modernization

- Application Assessment & Planning
- Compatibility Checks & remediation
- Modernization plan creation
- Execute the modernization plan
- Ensure your application is in working state

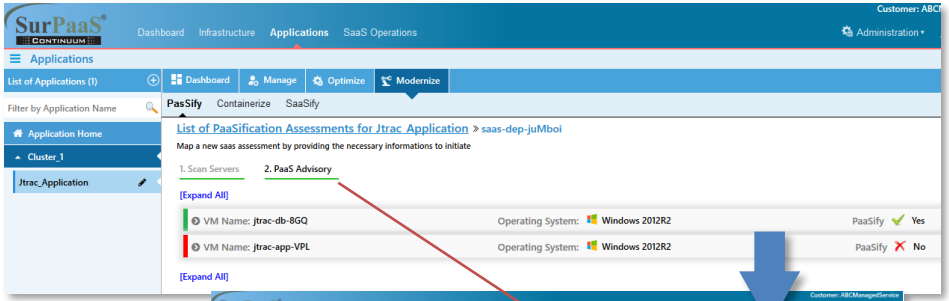
Scanning and assessing your application

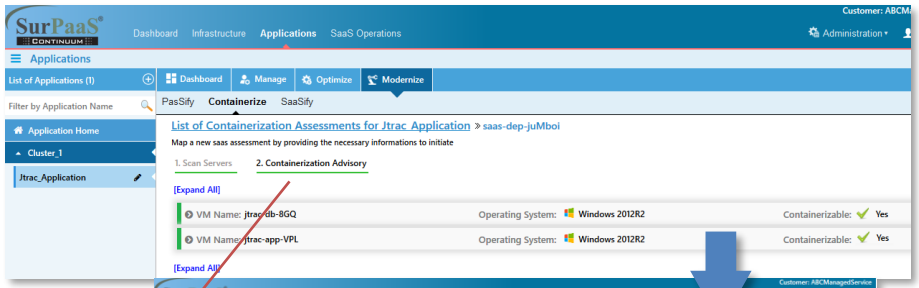
- Multiple methods to scan
  - Quick scan, Agentless, Extended scanning…
- Assess workloads that match Modernization criteria
- Deeper scan and analysis to check feasibility and compatibility

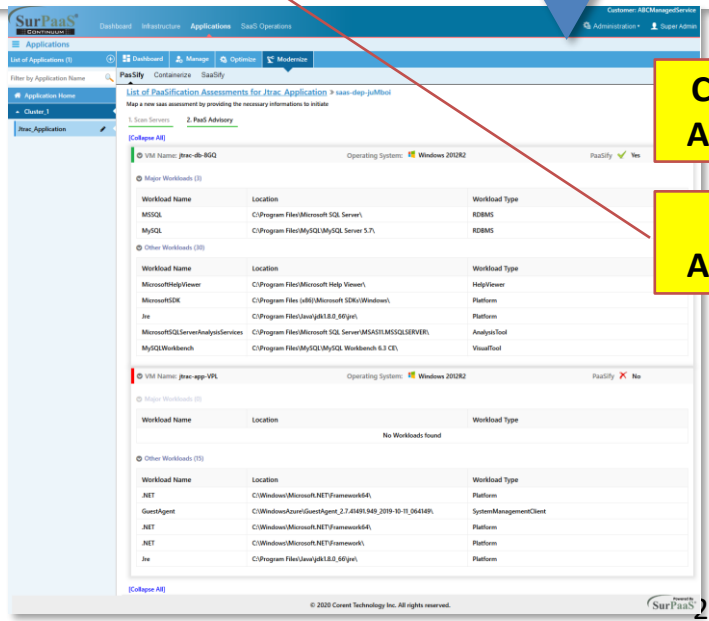
SurPaaS detects modernization opportunities for these workloads in your application

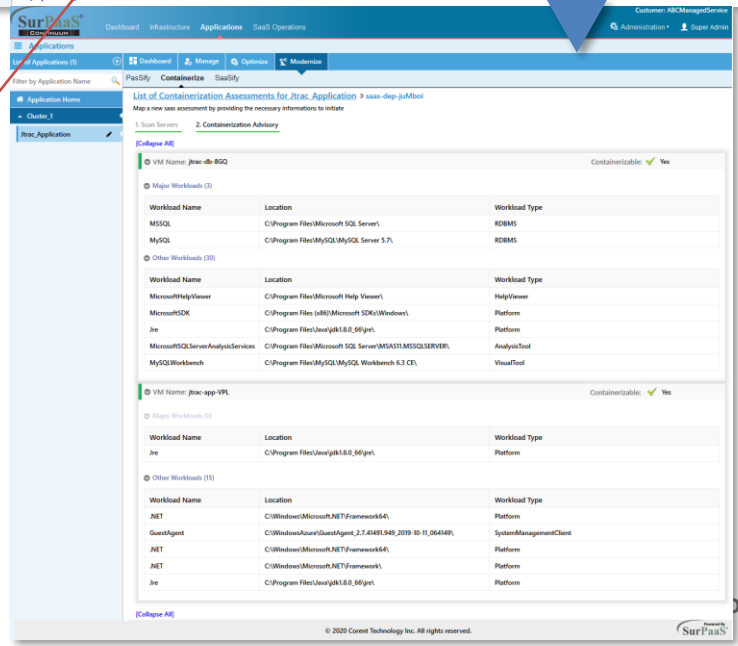
WORKLOAD COMPONENTS	AZURE PAAS SERVICE
MSSQL	AzureSQL Database
MySQL	Azure Database for MySQL
PostgreSQL	Azure Database for PostgreSQL
MongoDB	Azure Cosmos DB
AD	Azure AD Domain Services
ApacheHTTP	Azure LB
ApacheHTTP	Traffic Manager
ApacheHTTP	Application Gateway
Redis	Azure Cache for Redis
ApacheHadoop	HDInsight
ActiveMQ/ZeroMQ/MSMQ/WebsphereMQ	Queue Storage / Azure Bus Service
IIS	App Service
Tomcat	App Service

Modernization Advisories





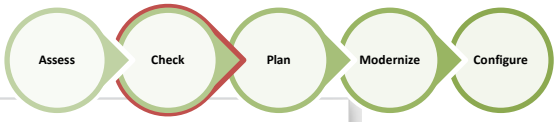




Container Advisories

PaaS Advisories

Check for compatibility



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Database Migration Assessment Report Summary

✔ Compatible
! Compatible with recommendations
N/A Incompatible

Server	Database Name	Database Version	Target Platform (Azure SQL Database)							Detailed Report
			CompatLevel140 (2017)	CompatLevel130 (2016)	CompatLevel120 (2014)	CompatLevel110 (2012)	CompatLevel100 (2008)	CompatLevel90 (2005)	CompatLevel80 (2000)	
localhost	umbraco	2016	✔	✔	N/A	N/A	N/A	N/A	N/A	View Report

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Database Migration Assessment Detailed Report

✔ Compatible
! Error
Information
Warning

Source Platform Details

Host Name
AgentScan

SQL Server Detail
- (13.0.1601.5 - Enterprise Evaluation Edition (64-bit))

Database Name
umbraco

Size in MB
16.0

Database Version
SQL Server 2016

Target Platform: Azure SQL Database

SQL Server (Feature Parity)	CompatLevel140 ✔ (2017)	CompatLevel130 ✔ (2016)
UnsupportedFeature - (2)		

Addtional Information:
1. Resolving Transact-SQL differences during migration to SQL Database

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Modernization planning

To Azure DBaaS, App Service & AKS

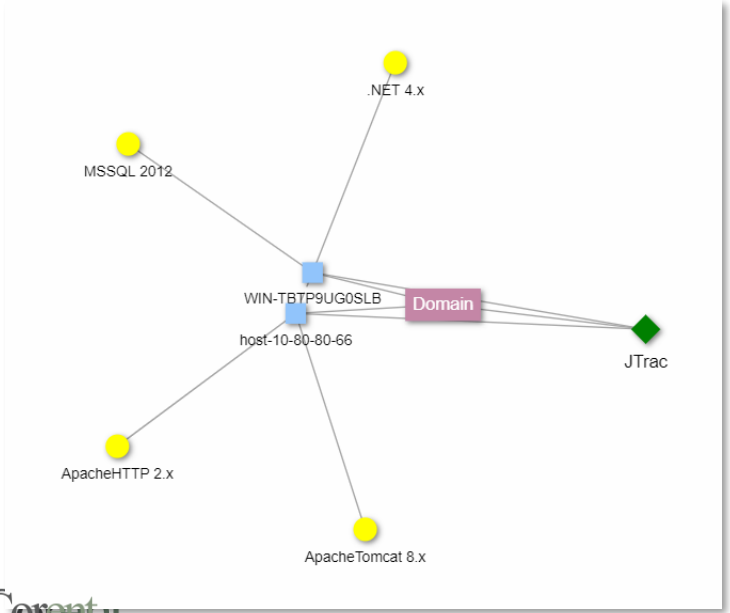
Source Architecture

Database Server:

- OS: Windows 2012R2
- CPU: 2 Core
- RAM: 4 GB

Application Server:

- OS: CentOS 7.0
- CPU: 2 Core
- RAM: 4 GB



Target Architecture

App PaaS:

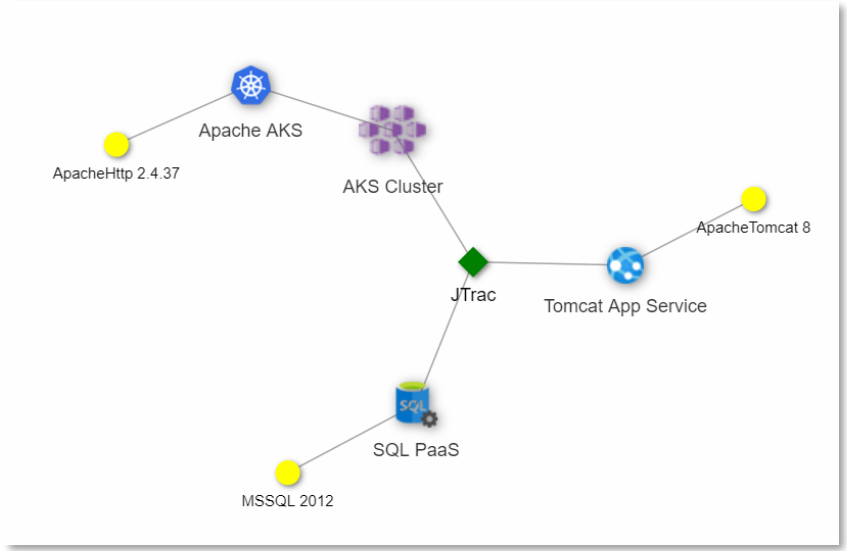
- Plan: Maasplan876 (B1: 1)

AKS Container:

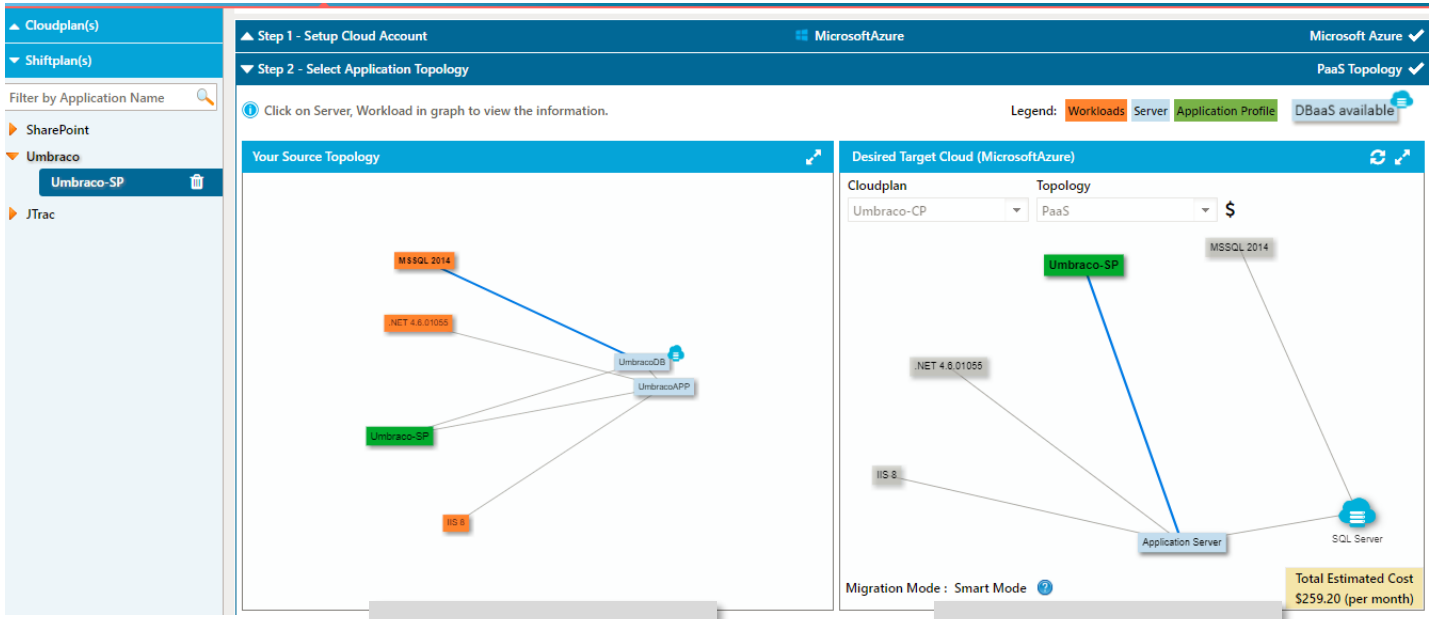
- Kubernetes version : 1.14.8
- Total cores: 6
- Total memory: 12 GB

DBaaS:

- Pricing Tier: Sandard S0: 10 DTUs



Execute modernization



Original application workloads

Target with Modernization

DB as a Service and App Services

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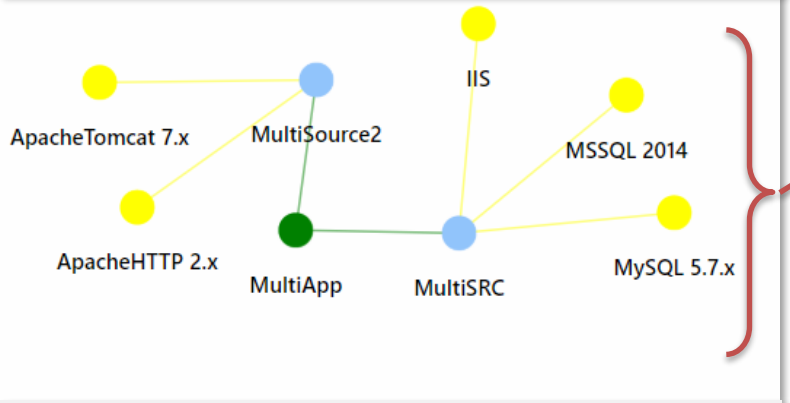
Modernization of application using DBaaS and AppService

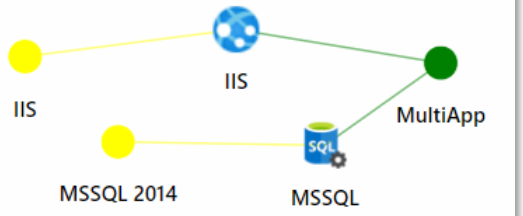
Source contains 2 Applications



JTrac
LB - Apache 2
App – Apache Tomcat 7.0.37
DB – MySQL 5.7

Umbraco
App – IIS 8
DB – MSSQL 2014

Target Umraco



Legend:
- Application
- Servers
- Workloads

Pre-Checks and planning

- Deep scan to get additional details from Databases and Application servers
- Perform compatibility checks
  - Azure native DMA for assessment of Database
  - Use SurPaaS rules for compatibility
- Create Cloud plan to move workloads to PaaS

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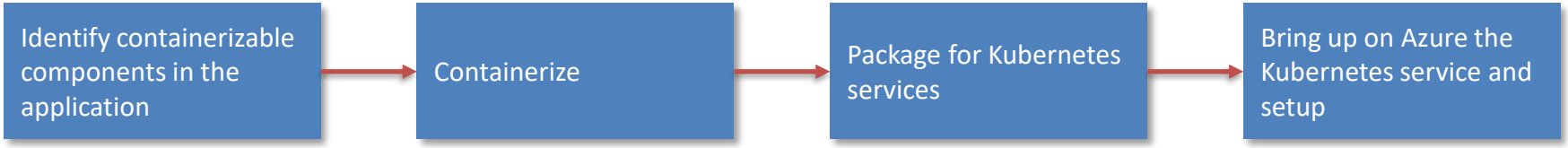
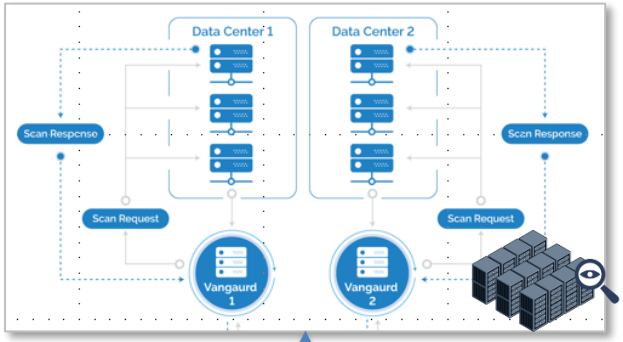
Containerization/Kubernetes choices



- Get containers from Docker hub for already available workloads ✓
- Containerize on the fly for any workloads
- Use containers already developed by customer

Automating transformation to Containers and AKS



On AKS Clusters

Scan

Analyze

Topology Map

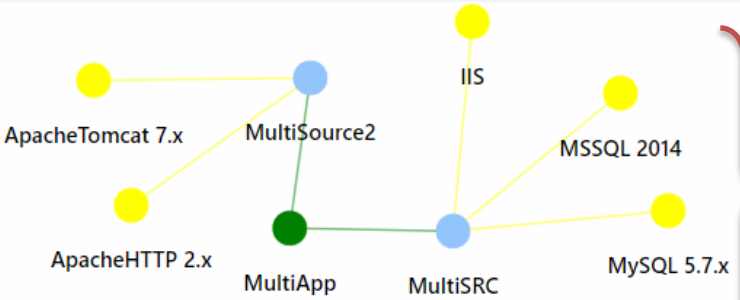
SurPaaS®

Blueprint

Manifest

Modernization of two applications using DBaaS, AppService, Containers/AKS

Source Contains 2 Applications



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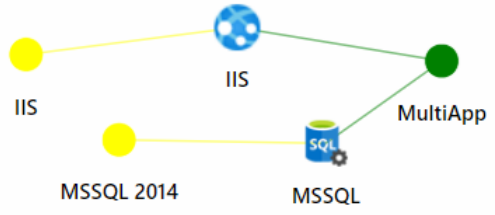
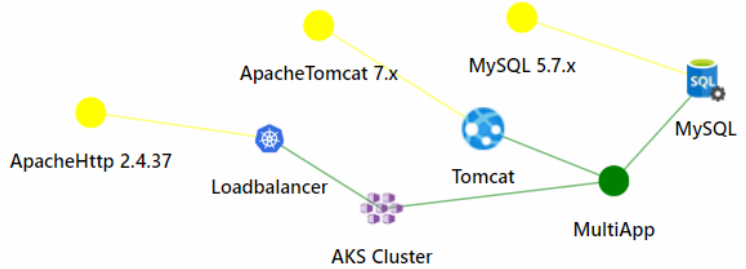
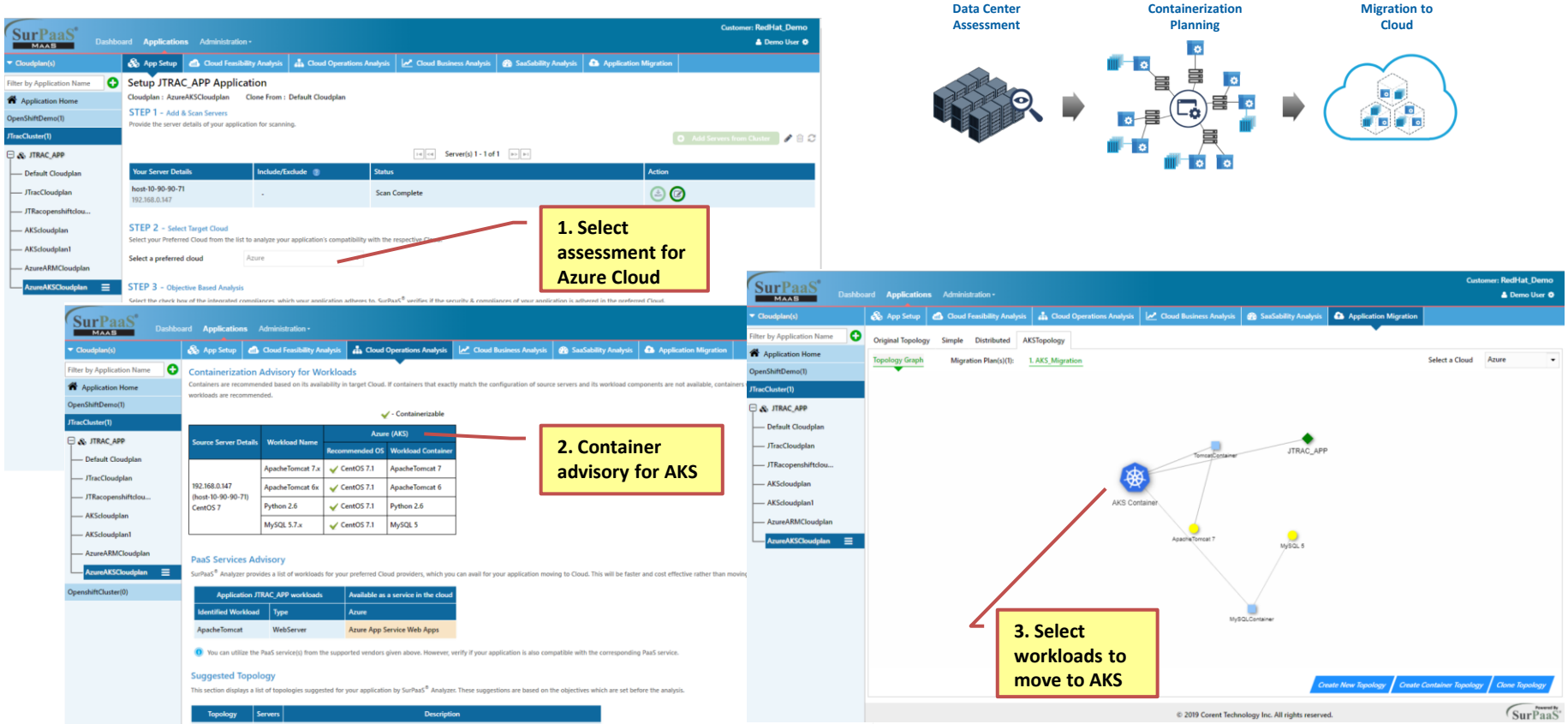


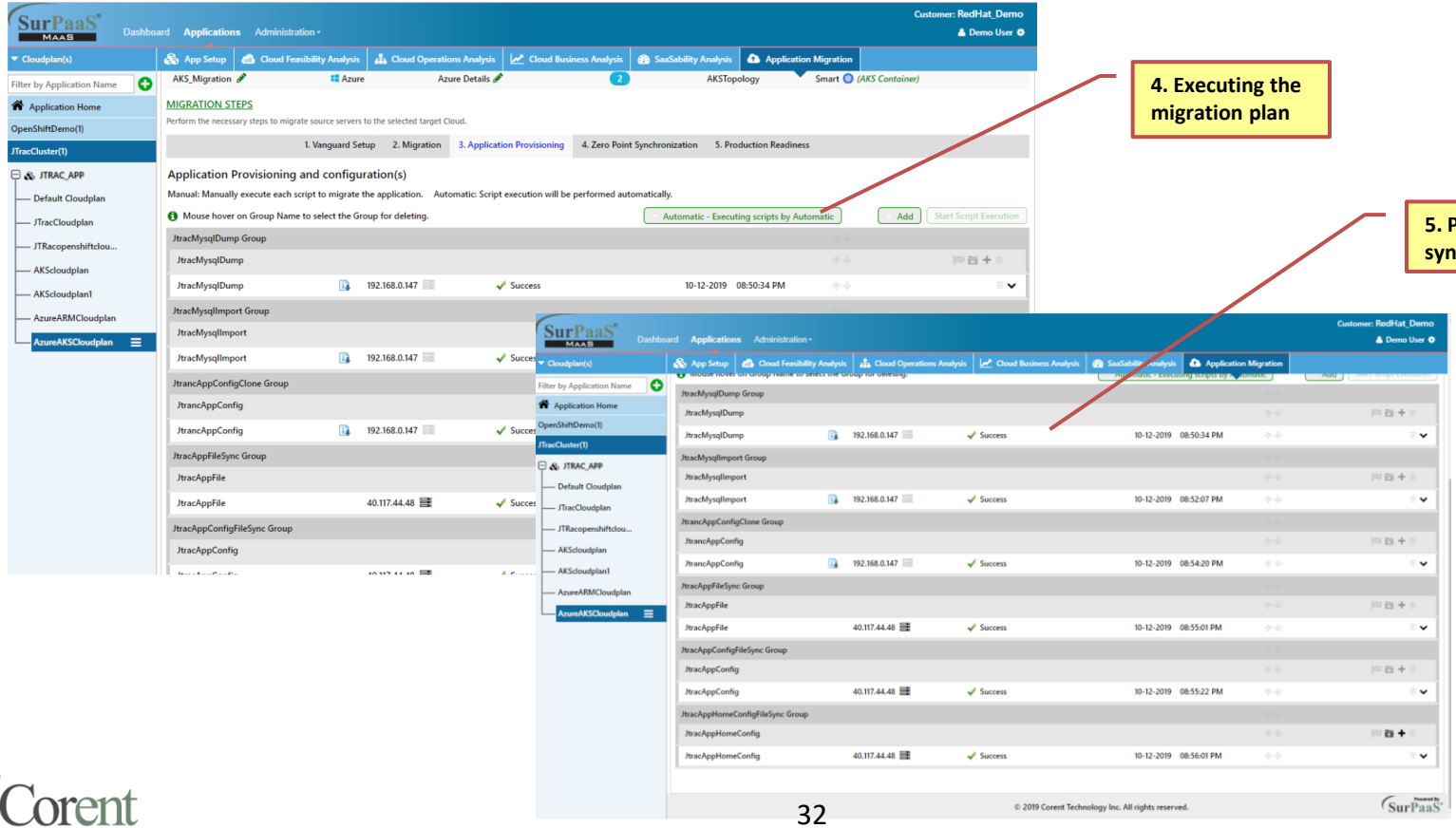
Target JTrac



Containerization - Assessment and planning-Migration to AKS



Containerization - Migration to AKS



4. Executing the migration plan

5. Postmigration data synchronization

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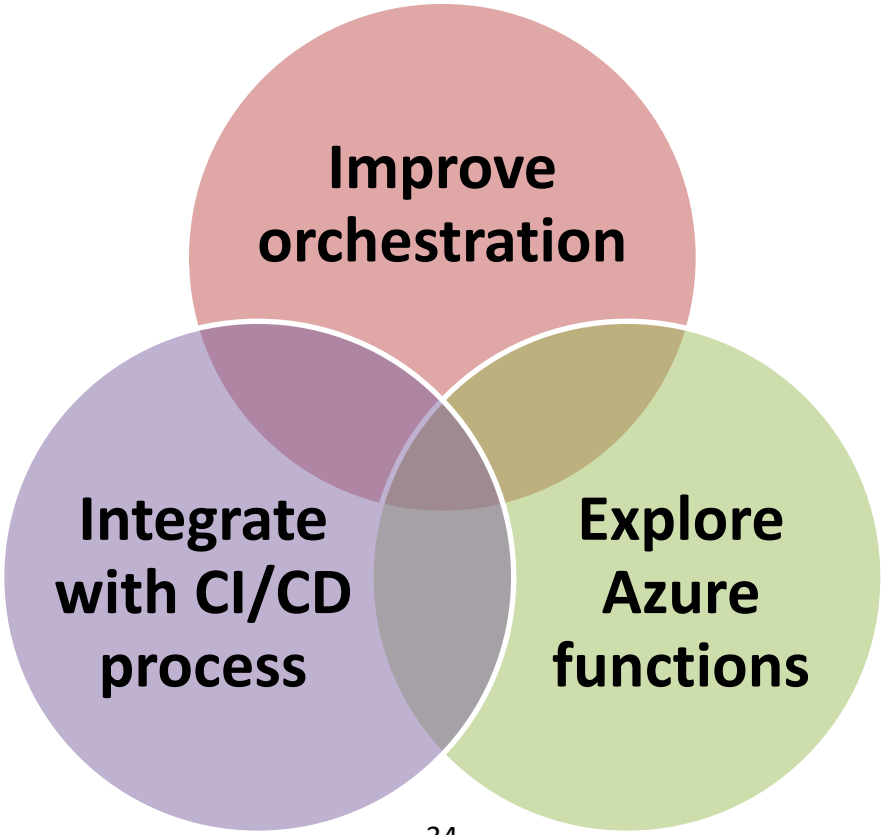
After Modernization?



Recap

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Thank You

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