



How Modernize applications with Azure PaaS services and Containers?

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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Director at Microsoft

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Shafi@corenttech.com



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

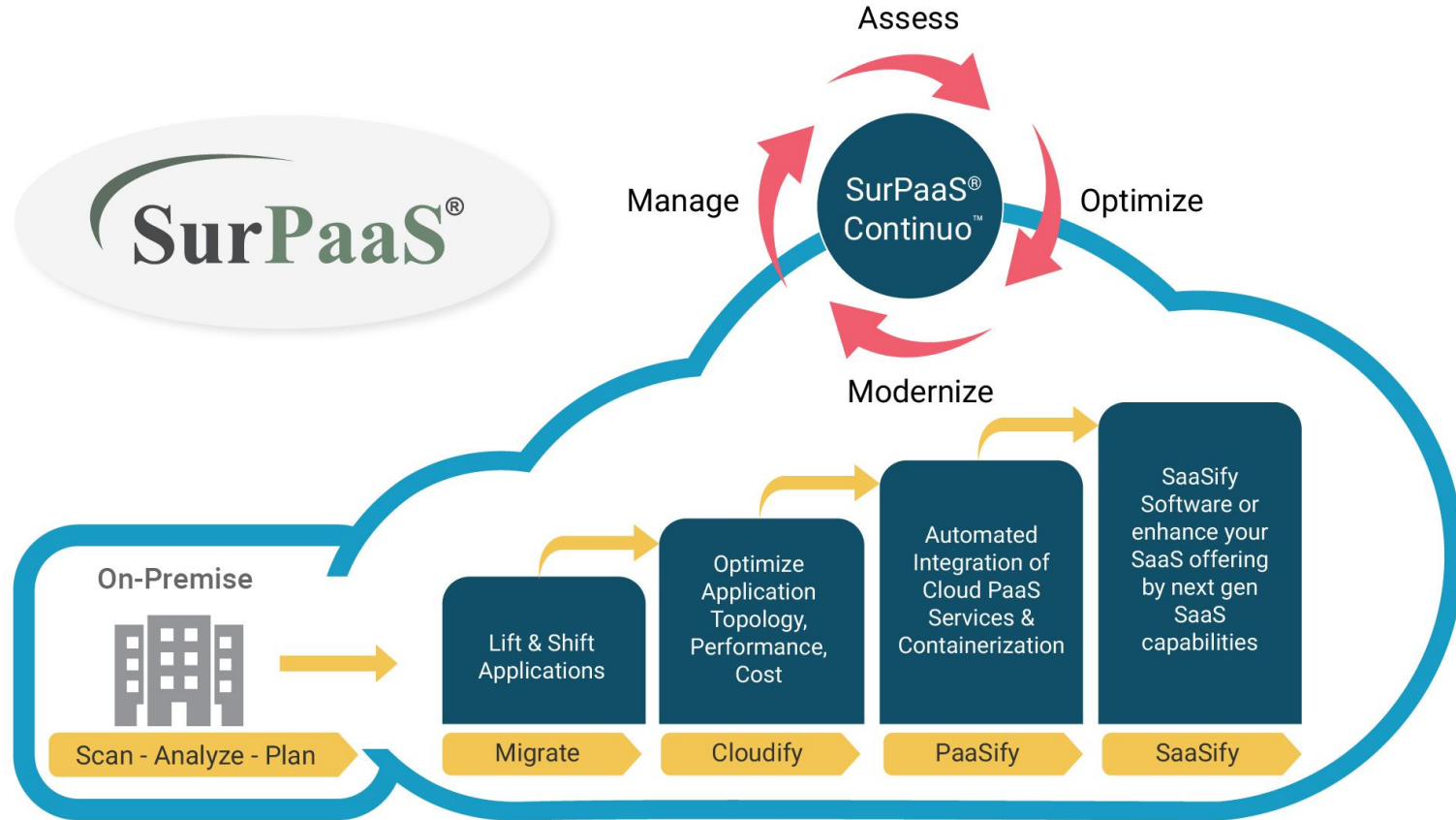
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Corent SurPaaS® Manages the entire the Cloud Journey

Gold
Microsoft Partner
Cloud Platform



Partner driven

uni.systems

Tech
Mahindra

LTI
Let's Solve

GENERAL DYNAMICS
Information Technology

NTT
NIPPON TELEGRAPH AND TELEPHONE
CORPORATION

INCRAM
MICRO

pyramid
CONSULTING

SCC
We make IT work

fc
Réseaux, Formation & Conseil

CAE
TECHNOLOGY ON POINT

sol-tec
CLOUD EMPOWERED SOLUTIONS

Palan IT Solutions GmbH

Mindtree

ALTRON | KARABINA

HPE
POINTNEXT

netcompany

bluesource
Protect
Govern
Move
Manage

QS
solutions

DQ GLOBAL
DRIVING DATA QUALITY

calligo
The trusted cloud®

CoStratify

Corent

Special offer to webinar participants

Corent and Microsoft are offering a free/no obligation Modernization of one application

- 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

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

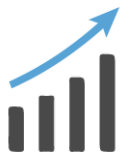
Speed and versatility

- Rapid adoption
- Increased speed of product development
- Resilience and redundancy

Global distributed development

- Availability at all times
- Access by Multiple teams

Containers and Kubernetes Services delivers more flexibility to your applications



Scalability

Rapidly scale software with ease



Portability

Workloads can be ported to any platform

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 platform or Cloud

Local deployment to serve region specific customer needs

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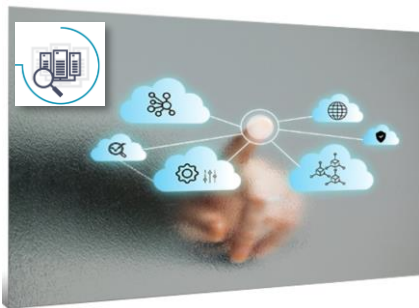
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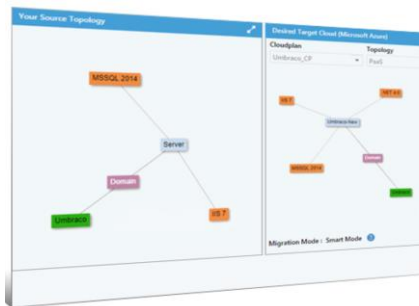
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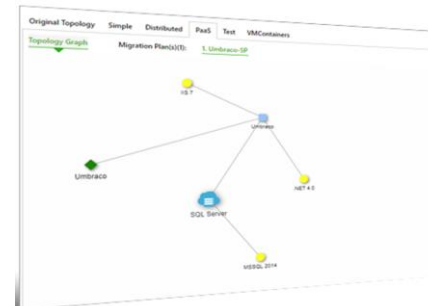
Application Modernization choices in SurPaaS (PaaS/Containers/AKS)



Scan and Assess for Modernization

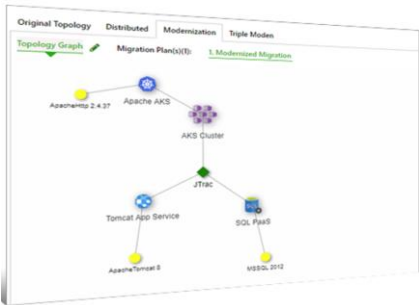


Re-platforming to redeploy workloads

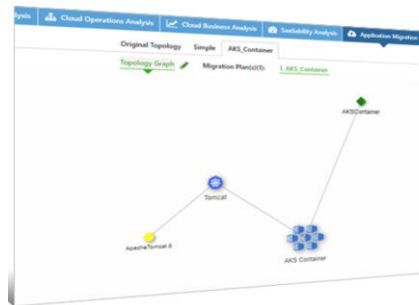


DB PaaS Service mapping and Migration

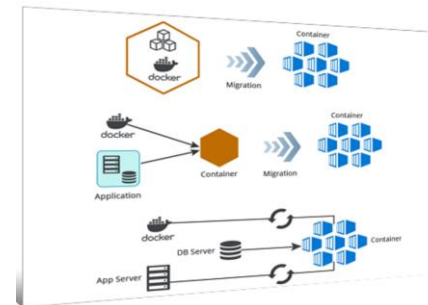
- Where do I look for PaaS and Container candidates in my application?
- How do I modernize?



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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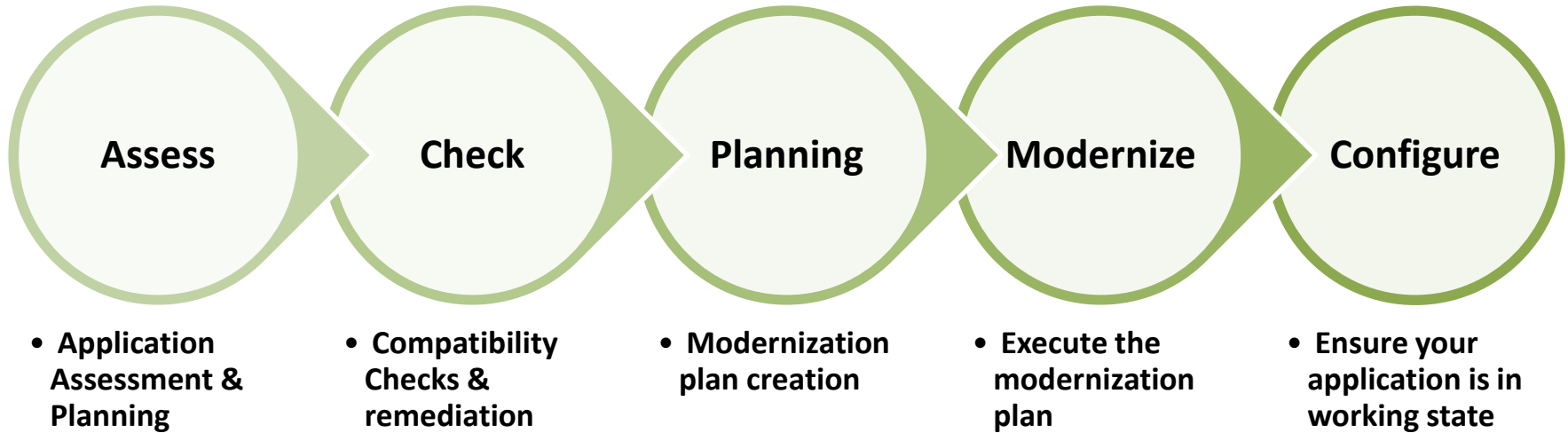
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Process of Modernization



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



SurPaaS CONTINUUM Dashboard Infrastructure Applications SaaS Operations Administration Customer: ABC1

Applications

List of Applications (1)

Filter by Application Name

Application Home

Cluster 1

Jtrac_Application

List of PaaSification Assessments for Jtrac_Application > saas-dep-juMboi

Map a new saas assessment by providing the necessary informations to initiate

1. Scan Servers 2. PaaS Advisory

[Expand All]

VM Name: jtrac-db-8GQ	Operating System: Windows 2012R2	PaaSify: Yes
VM Name: jtrac-app-VPL	Operating System: Windows 2012R2	PaaSify: No

[Expand All]

SurPaaS CONTINUUM Dashboard Infrastructure Applications SaaS Operations Administration Customer: ABCM

Applications

List of Applications (1)

Filter by Application Name

Application Home

Cluster 1

Jtrac_Application

List of Containerization Assessments for Jtrac_Application > saas-dep-juMboi

Map a new saas assessment by providing the necessary informations to initiate

1. Scan Servers 2. Containerization Advisory

[Expand All]

VM Name: jtrac-db-8GQ	Operating System: Windows 2012R2	Containerizable: Yes
VM Name: jtrac-app-VPL	Operating System: Windows 2012R2	Containerizable: Yes

[Expand All]

SurPaaS CONTINUUM Dashboard Infrastructure Applications SaaS Operations Administration Super Admin Customer: ABC/ManagerService

Applications

List of PaaSification Assessments for Jtrac_Application > saas-dep-juMboi

Map a new saas assessment by providing the necessary informations to initiate

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[Collapse All]

VM Name	Operating System	PaaSify
jtrac-db-8GQ	Windows 2012R2	Yes
jtrac-app-VPL	Windows 2012R2	No

Major Workloads (3)

Workload Name	Location	Workload Type
MSSQL	C:\Program Files\Microsoft SQL Server\	RDBMS
MySQL	C:\Program Files\MySQL\MySQL Server 5.7\	RDBMS

Other Workloads (38)

Workload Name	Location	Workload Type
MicrosoftHelpViewer	C:\Program Files\Microsoft Help Viewer\	HelpViewer
MicrosoftSDK	C:\Program Files (x86)\Microsoft SDKs\Windows\	Platform
je	C:\Program Files\je\jdk1.8.0_86\je\	Platform
MicrosoftSQLServerAnalysisServices	C:\Program Files\Microsoft SQL Server\MSAS11\MSSQLSERVER\	AnalysisTool
MySQLWorkbench	C:\Program Files\MySQL\MySQL Workbench 6.3 CE\	VisualTool

VM Name: jtrac-app-VPL

Major Workloads (0)

Other Workloads (75)

Workload Name	Location	Workload Type
.NET	C:\Windows\Microsoft.NET\Framework64\	Platform
GuestAgent	C:\Windows\GuestAgent_2.7.45491349_2019-10-11_06414P\	SystemManagementClient
.NET	C:\Windows\Microsoft.NET\Framework64\	Platform
.NET	C:\Windows\Microsoft.NET\Framework64\	Platform
je	C:\Program Files\je\jdk1.8.0_86\je\	Platform

[Collapse All]

Container Advisories

PaaS Advisories

Check for compatibility



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



Database Migration Assessment Detailed Report

- ✔ Compatible
- ! Error
- i Information
- ⚠ Warning

Source Platform Details

Host Name	SQL Server Detail	
AgentScan	- (13.0.1601.5 - Enterprise Evaluation Edition (64-bit))	
Database Name	Size in MB	Database Version
umbraco	16.0	SQL Server 2016

Target Platform: Azure SQL Database

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

Additional Information:
 1. [Resolving Transact-SQL differences during migration to SQL Database](#)



Modernization planning

To Azure DBaaS, App Service & AKS



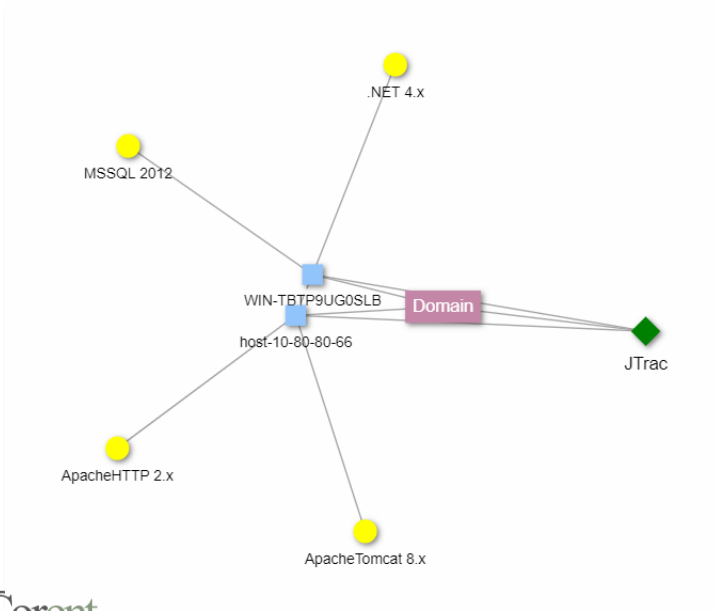
Source Architecture

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:

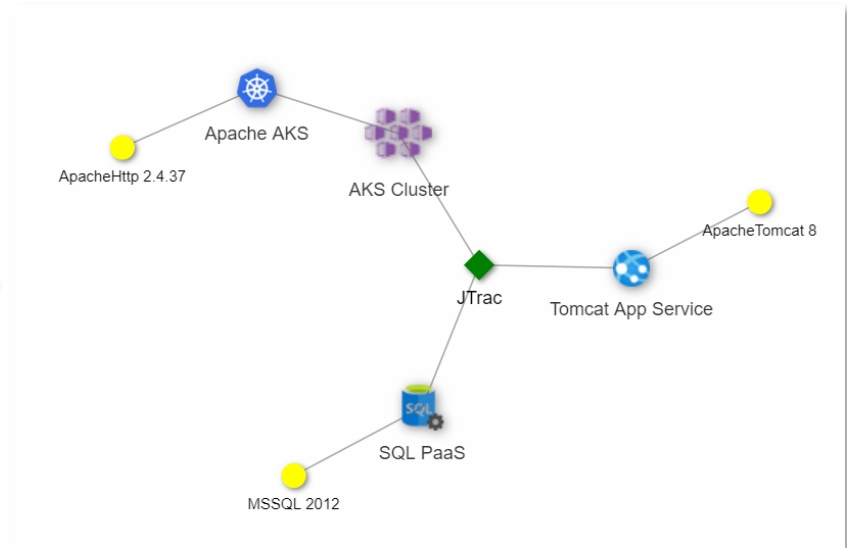
- Plan: Maasplan876 (B1: 1)

AKS Container:

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

DBaaS:

- Pricing Tier: Standard S0: 10 DTUs



Execute modernization



▲ Step 1 - Setup Cloud Account Microsoft Azure ✓

▼ Step 2 - Select Application Topology PaaS Topology ✓

Click on Server, Workload in graph to view the information.

Legend: Workloads Server Application Profile DBaaS available

Your Source Topology

Desired Target Cloud (Microsoft Azure)

Cloudplan: Umbraco-CP Topology: PaaS \$

Migration Mode: Smart Mode

Total Estimated Cost \$259.20 (per month)


Original application workloads

Target with Modernization

DB as a Service and App Services

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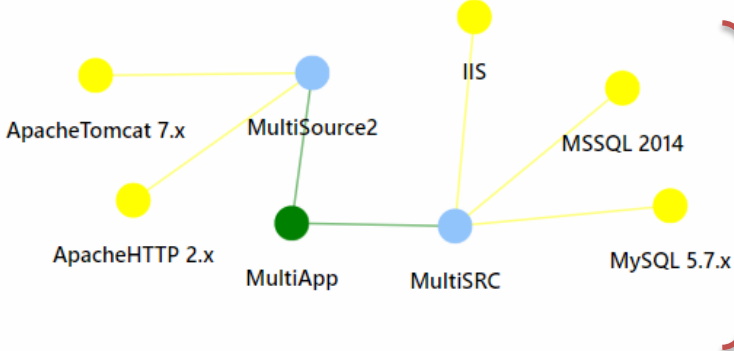
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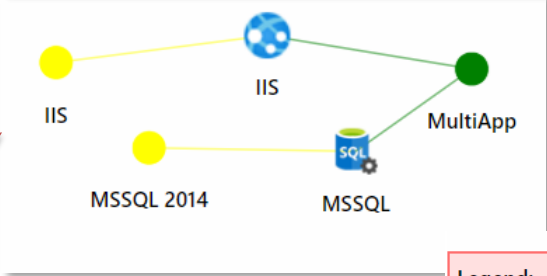
Modernization of application using DBaaS and AppService

Source contains 2 Applications



JTrac	Umbraco
LB - Apache 2	App - IIS 8
App - Apache Tomcat 7.0.37	DB - MSSQL 2014
DB - MySQL 5.7	

Target Umbraco



Legend:


- Application (Green)
- Servers (Blue)
- Workloads (Yellow)

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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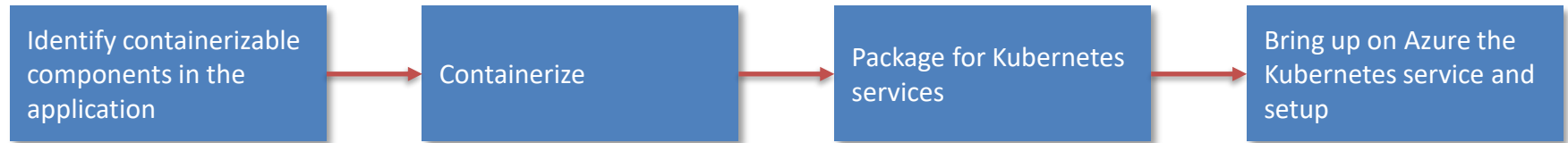
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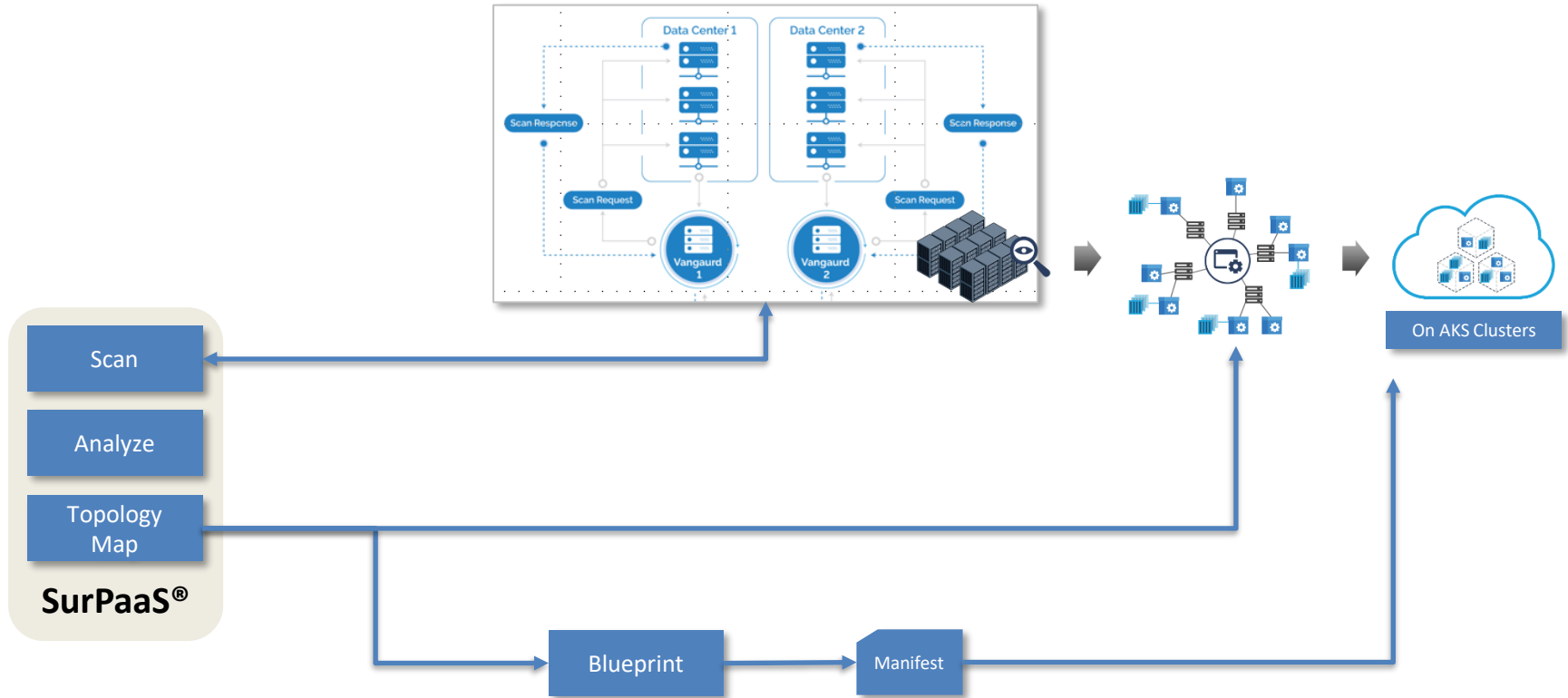
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Containerization/Kubernetes choices

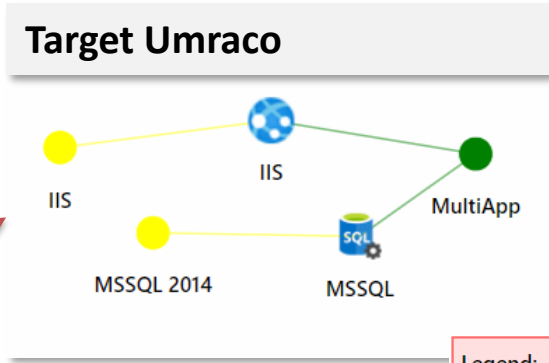
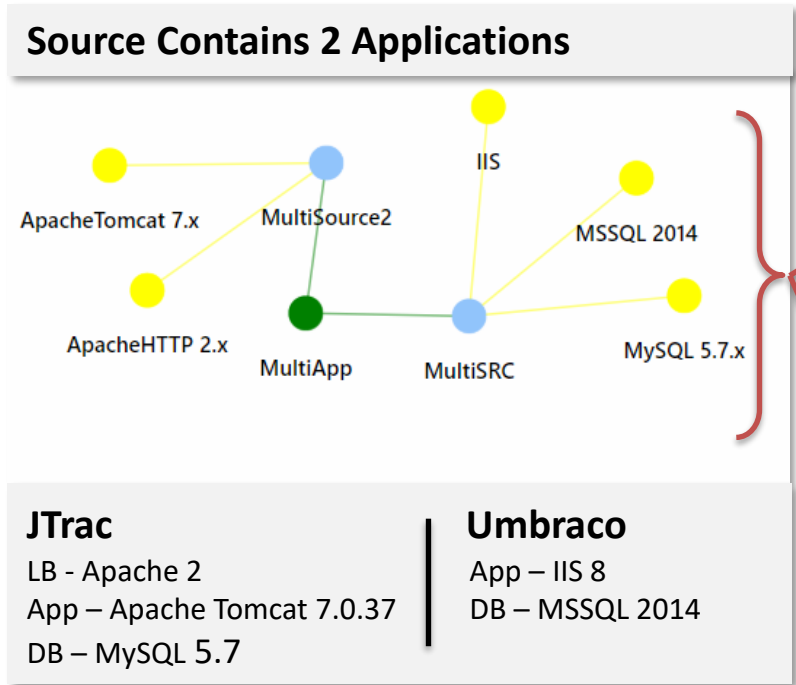


- Get containers from Docker hub for already available workloads
- Containerize on the fly for any workloads
- Use containers already developed by customer

Automating transformation to Containers and AKS

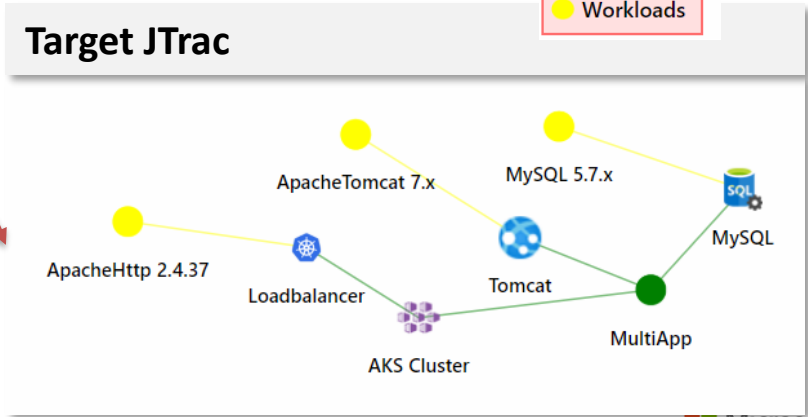


Modernization of two applications using DBaaS, AppService, Containers/AKS



Legend:

- Application
- Servers
- Workloads



Containerization - Assessment and planning-Migration to AKS



Customer: RedHat_Demo Demo User

Cloudplan(s) App Setup Cloud Feasibility Analysis Cloud Operations Analysis Cloud Business Analysis SaaSability Analysis Application Migration

Filter by Application Name Setup JTRAC_APP Application
Cloudplan: AzureAKSCloudplan Clone From: Default Cloudplan

STEP 1 - Add & Scan Servers
Provide the server details of your application for scanning.

Your Server Details	Include/Exclude	Status	Action
host-10-90-90-71 192.168.0.147	-	Scan Complete	

STEP 2 - Select Target Cloud
Select your Preferred Cloud from the list to analyze your application's compatibility with the respective cloud.
Select a preferred cloud: Azure

STEP 3 - Objective Based Analysis
Select the check box for the listed constraints, which your application adheres to. SurPaaS® verifies if the security & compliance of your application is adhered in the preferred Cloud.

1. Select assessment for Azure Cloud

Containerization Advisory for Workloads
Containers are recommended based on its availability in target Cloud. If containers that exactly match the configuration of source servers and its workload components are not available, container workloads are recommended.

Source Server Details	Workload Name	Recommended OS	Workload Container
192.168.0.147 (host-10-90-90-71)	ApacheTomcat 7.x	CentOS 7.1	ApacheTomcat 7
	ApacheTomcat 6.x	CentOS 7.1	ApacheTomcat 6
	Python 2.6	CentOS 7.1	Python 2.6
CentOS 7	MySQL 5.7.x	CentOS 7.1	MySQL 5

2. Container advisory for AKS

PaaS Services Advisory
SurPaaS® Analyzer provides a list of workloads for your preferred Cloud providers, which you can avail for your application moving to Cloud. This will be faster and cost effective rather than moving your application to Cloud.

Application JTRAC_APP workloads	Available as a service in the cloud
Identified Workload	Type
ApacheTomcat	WebServer
	Azure App Service Web Apps

Suggested Topology
This section displays a list of topologies suggested for your application by SurPaaS® Analyzer. These suggestions are based on the objectives which are set before the analysis.

Topology	Servers	Description
Original Topology	1	Original topology of your application.
Simple	1	Simplified topology for your application to reduce the cost of deployment.

Original Topology Simple Distributed AKSTopology

Topology Graph Migration Plan(s): 1. AKS_Migration

Select a Cloud: Azure

3. Select workloads to move to AKS

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Containerization - Migration to AKS

The screenshot shows the SurPaaS Application Migration interface. The top navigation bar includes 'Dashboard', 'Applications', and 'Administration'. The main content area is titled 'Application Migration' and shows a progress bar with five steps: 1. Vanguard Setup, 2. Migration, 3. Application Provisioning (active), 4. Zero Point Synchronization, and 5. Production Readiness. Below the progress bar, there is a section for 'Application Provisioning and configuration(s)' with a manual execution button and an 'Automatic - Executing scripts by Automatic' button. A table lists the provisioning tasks for the 'JtracMysqlDump Group' and 'JtracMysqlImport Group', showing their status as 'Success' and their completion times.

4. Executing the migration plan


5. Postmigration data synchronization

This screenshot provides a detailed view of the migration tasks. The interface shows a list of application groups and their associated tasks, all of which have been completed successfully. The tasks include 'JtracMysqlDump', 'JtracMysqlImport', 'JtracAppConfigClone', 'JtracAppConfig', 'JtracAppFileSync', 'JtracAppFile', and 'JtracAppHomeConfig'. Each task entry includes the application name, IP address, status (Success), and completion time. The interface also shows a sidebar with a tree view of the application structure, including 'JTRAC_APP', 'Default Cloudplan', 'JTracCloudplan', 'AKScloudplan', 'AzureARMCloudplan', and 'AzureAKScloudplan'.

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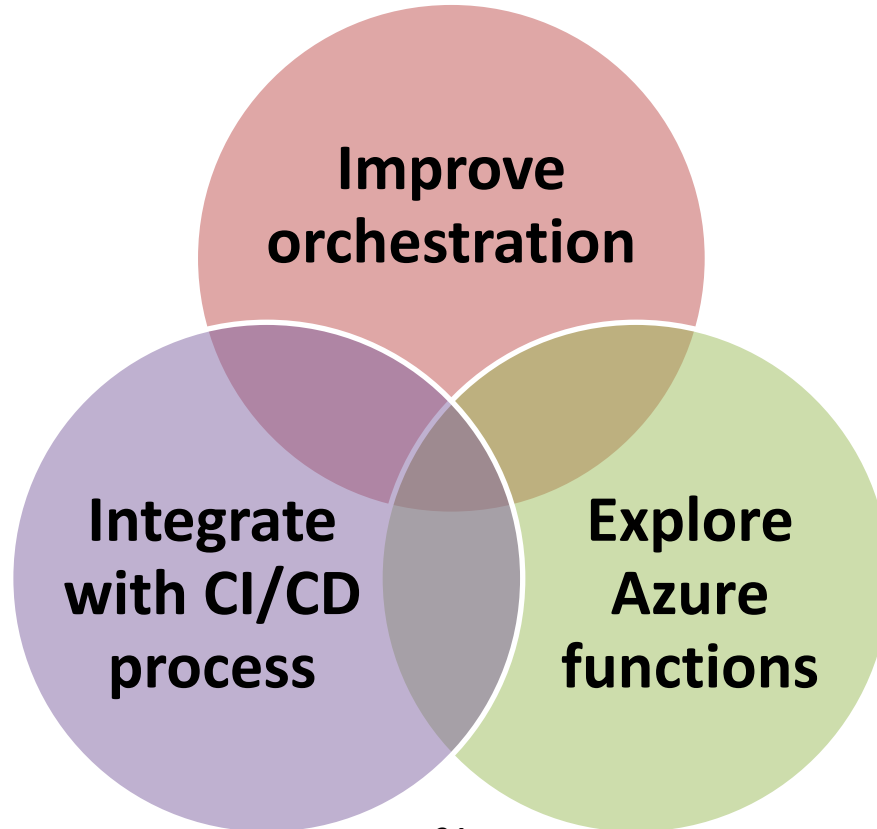
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After Modernization?



Recap

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Thank You

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